

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533418

Luminaire Tested: **GALN-SA8D-750-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-750-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53259 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

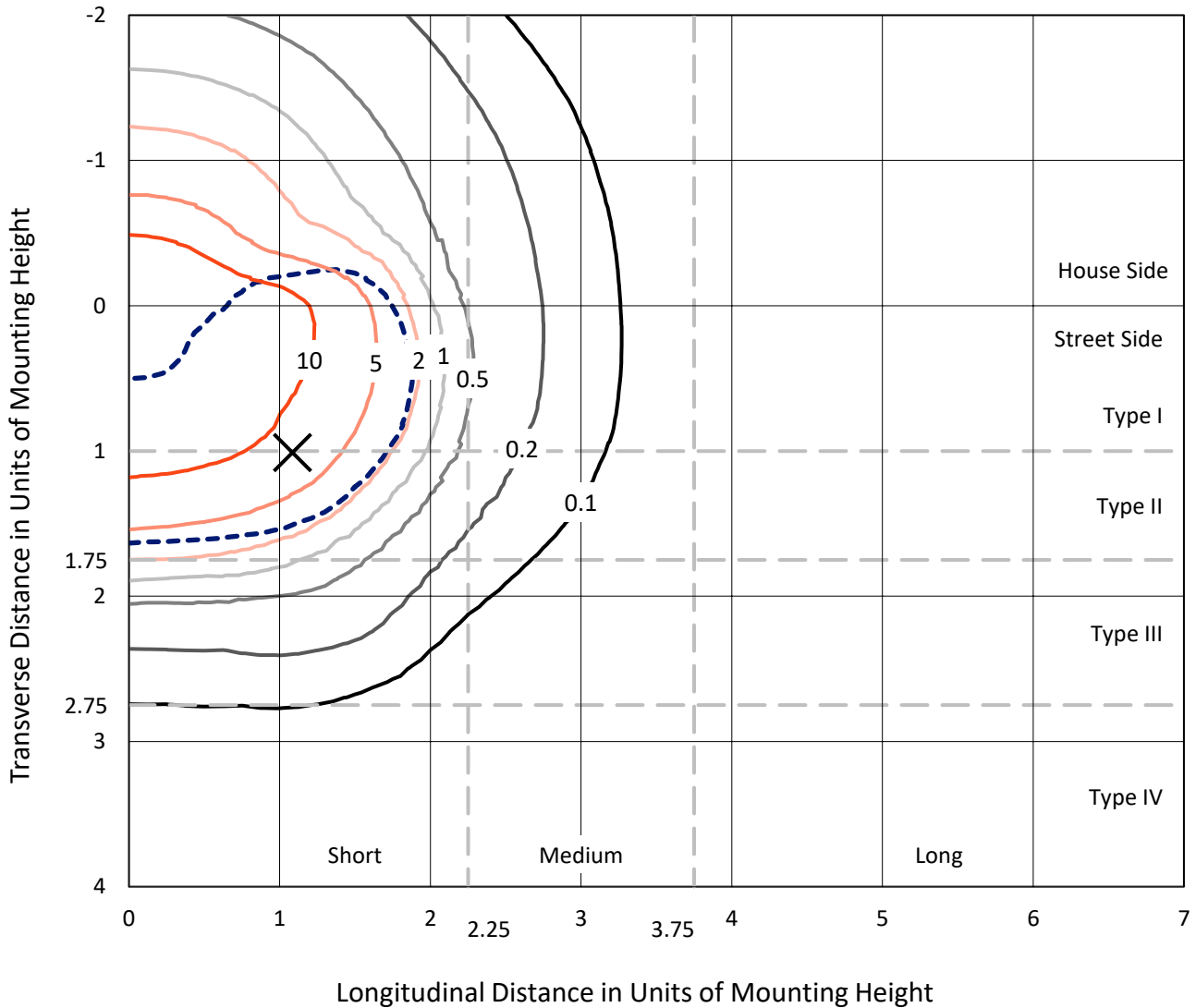
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

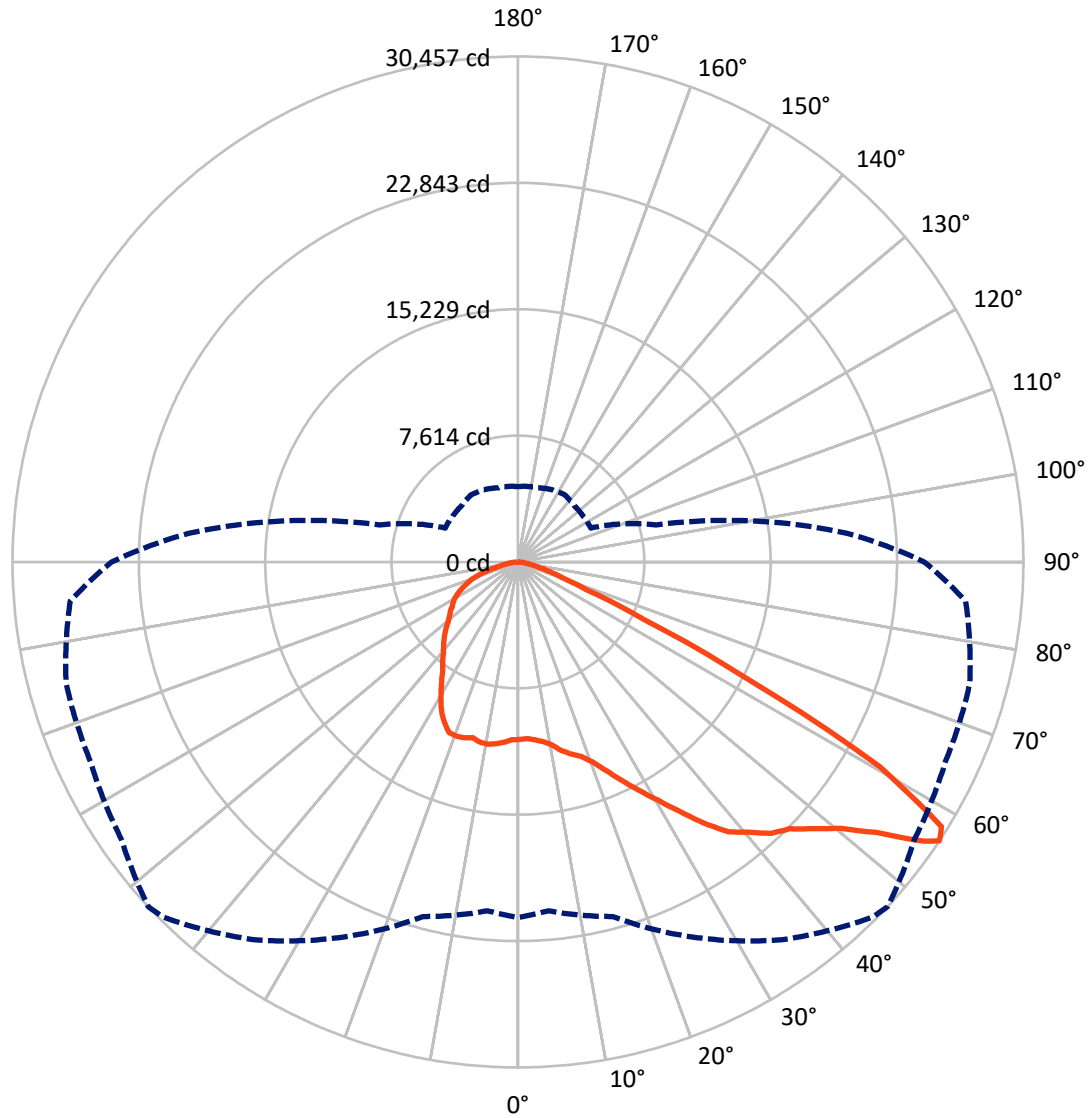
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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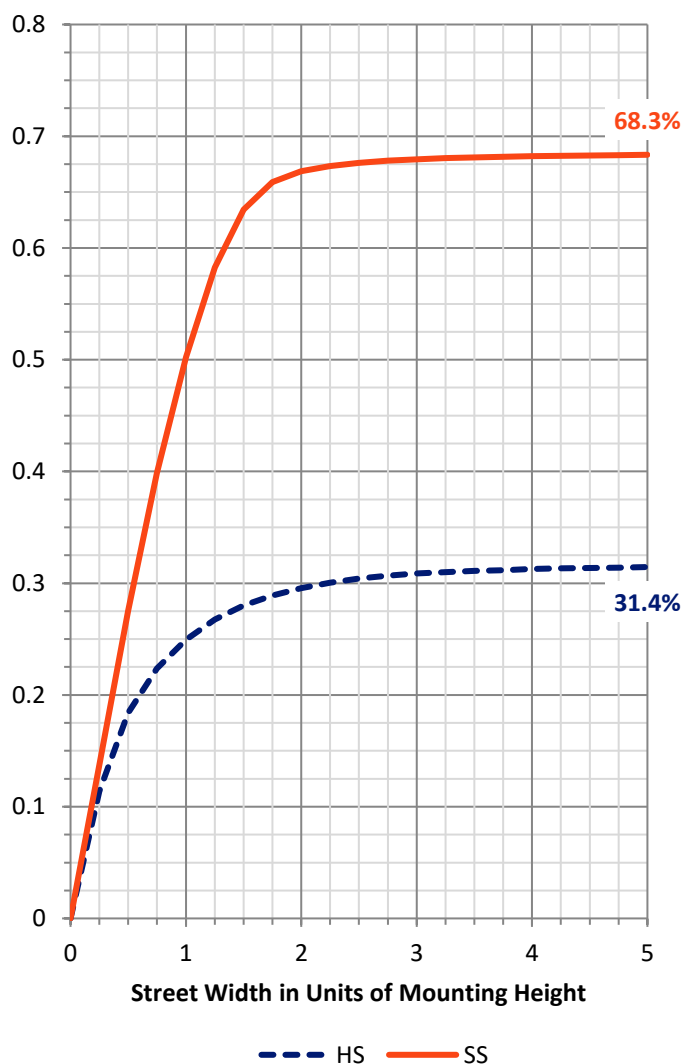
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16877.1	0.0	16877.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	36381.9	0.0	36381.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	53259.0	0.0	53259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1042.4	2.0
10°-20°	3288.2	6.2
20°-30°	5812.8	10.9
30°-40°	8730.6	16.4
40°-50°	11981.9	22.5
50°-60°	14274.8	26.8
60°-70°	6108.7	11.5
70°-80°	1728.8	3.2
80°-90°	290.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	53259.0	100.0
0°-180°	53259.0	100.0

Coefficient of Utilization



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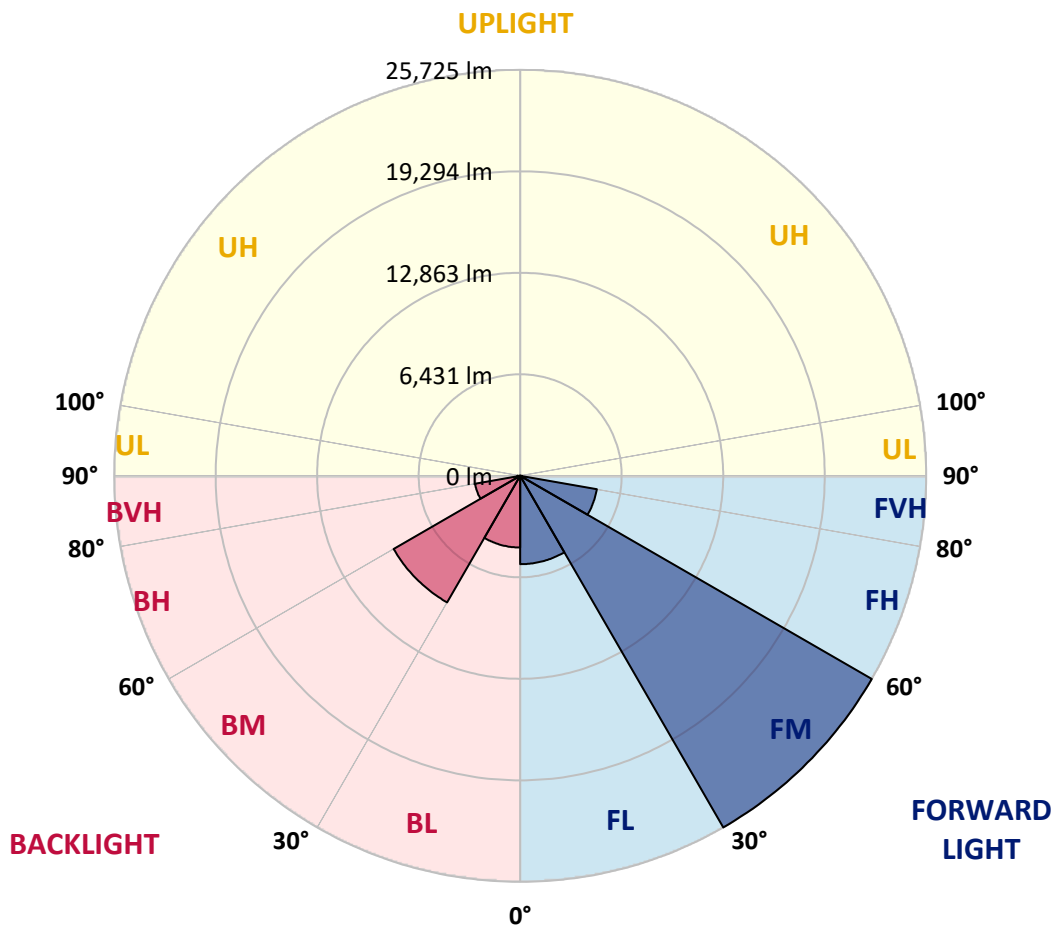
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5599.3	10.5			
FM (30°-60°)	25725.3	48.3			
FH (60°-80°)	4933.7	9.3			G2/5000
FVH (80°-90°)	123.5	0.2			G2/225
BL (0°-30°)	4544.0	8.5	B4/5000		
BM (30°-60°)	9261.9	17.4	B5		
BH (60°-80°)	2903.8	5.5	B4/5000		G4/5000
BVH (80°-90°)	167.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1
2.5°	10657.4	10637.0	10623.4	10732.1	10691.3	10698.1	10657.4	10698.1	10725.3	10664.2	10752.5
5°	10637.0	10698.1	10643.8	10677.7	10766.0	10738.9	10766.0	10847.5	10827.2	10806.8	10779.6
7.5°	10827.2	10834.0	10874.7	10888.3	10915.5	10888.3	10929.1	11003.8	10983.4	10867.9	10881.5
10°	11098.9	11112.5	11119.2	11194.0	11241.5	11248.3	11200.8	11132.8	11126.0	11282.3	11173.6
12.5°	11411.3	11377.4	11458.9	11486.0	11540.4	11601.5	11662.6	11520.0	11608.3	11615.1	11486.0
15°	11866.4	11900.4	11805.3	11805.3	11825.7	11832.5	12002.3	11934.3	11920.8	11846.0	11900.4
17.5°	12545.7	12314.7	12307.9	12212.8	12199.2	12253.6	12314.7	12369.1	12552.5	12403.0	12110.9
20°	13041.5	13095.9	12898.9	12783.4	12803.8	12926.0	12864.9	13109.4	13238.5	12994.0	12708.7
22.5°	13917.7	13734.3	13781.9	13523.8	13544.2	13673.2	13666.4	13917.7	13992.5	13605.3	13190.9
25°	14508.7	14461.1	14501.9	14298.1	14325.3	14427.2	14590.2	15004.5	14882.3	14454.3	13496.6
27.5°	15371.3	15276.2	15242.3	15167.5	15140.4	15412.1	15602.3	16043.8	15955.5	15330.6	14040.0
30°	16254.3	16193.2	16227.2	15921.5	16030.2	16607.5	16661.9	17266.4	17225.7	16125.3	14644.5
32.5°	16865.7	16899.6	16960.8	16790.9	17273.2	17735.1	17918.5	18604.5	18638.5	17490.6	15812.8
35°	17850.6	17735.1	17769.1	17966.0	18190.2	19032.5	19331.3	19786.4	20071.7	18923.8	16933.6
37.5°	18468.7	18590.9	18448.3	18760.8	19344.9	20357.0	20628.7	21097.4	21396.2	20336.6	18461.9
40°	19433.2	19236.2	19338.1	19562.3	20160.0	21477.7	21403.0	21885.3	21980.4	21538.9	19888.3
42.5°	20472.5	20377.4	20234.7	20744.2	21246.8	22204.5	22354.0	22129.8	22612.1	22714.0	21926.0
45°	21715.5	21830.9	21851.3	21864.9	22306.4	23141.9	22938.1	22741.1	23298.1	24038.5	23189.4
47.5°	22870.2	22503.4	22768.3	23135.1	23760.0	23766.8	24004.5	23535.9	24126.8	24785.7	24330.6
50°	23257.4	23080.8	23434.0	24126.8	25091.3	25193.2	25220.4	24554.7	24860.4	25383.4	24724.5
52.5°	23107.9	23046.8	23950.2	25023.4	26436.2	26952.5	27088.3	26266.4	26436.2	26198.5	25594.0
55°	22394.7	22578.1	23488.3	25675.5	27842.3	29438.5	29696.6	28657.4	27577.4	27760.8	27095.1
56°	21416.6	21097.4	22116.2	24935.1	27781.1	30246.8	30457.4	29160.0	28426.4	28188.7	27081.5
57.5°	18169.8	17755.5	19093.6	22435.5	26239.2	29941.1	30097.4	29370.6	28283.8	27801.5	25104.9
60°	10637.0	10840.8	12538.9	15473.2	20241.5	24547.9	25070.9	25600.8	24874.0	22714.0	18686.0
62.5°	5135.1	5006.0	6221.9	8870.9	12335.1	15670.2	15514.0	17001.5	17816.6	16138.9	11798.5
65°	2689.8	2676.2	3396.2	4843.0	6778.9	8232.5	8375.1	9176.6	10297.4	8314.0	5990.9
67.5°	1976.6	2030.9	2390.9	3403.0	4360.8	4449.1	4428.7	4829.4	4938.1	4177.4	3681.5
70°	1548.7	1575.8	1840.8	2587.9	3246.8	2907.2	2846.0	2893.6	3212.8	3348.7	3185.7
72.5°	1120.8	1147.9	1372.1	1745.7	2030.9	1983.4	2024.2	2289.1	2683.0	2825.7	2655.8
75°	747.2	767.5	889.8	1066.4	1202.3	1297.4	1372.1	1677.7	2044.5	2126.0	2044.5
77.5°	516.2	536.6	618.1	754.0	767.5	828.7	855.8	998.5	1222.6	1324.5	1270.2
80°	292.1	292.1	332.8	387.2	475.5	557.0	570.6	686.0	787.9	855.8	869.4
82.5°	135.8	142.6	176.6	237.7	312.5	387.2	400.8	475.5	550.2	618.1	638.5
85°	67.9	74.7	101.9	142.6	190.2	230.9	224.2	230.9	244.5	230.9	237.7
87.5°	20.4	20.4	27.2	34.0	27.2	34.0	34.0	40.8	47.5	54.3	61.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1	10698.1
2.5°	10759.2	10779.6	10643.8	10772.8	10725.3	10718.5	10813.6	10800.0	10834.0	10820.4	10738.9
5°	10766.0	10718.5	10861.1	10732.1	10793.2	10922.3	10834.0	11037.7	10935.9	11003.8	10854.3
7.5°	10976.6	10990.2	10963.0	11017.4	10990.2	11051.3	11003.8	11051.3	10969.8	10976.6	11112.5
10°	11160.0	11119.2	11166.8	11098.9	11146.4	11126.0	11017.4	10983.4	11010.6	10976.6	11064.9
12.5°	11499.6	11424.9	11390.9	11309.4	11255.1	11051.3	10881.5	10786.4	10915.5	10935.9	10895.1
15°	11846.0	11852.8	11696.6	11513.2	11173.6	10867.9	10908.7	10942.6	10942.6	10997.0	10895.1
17.5°	12063.4	12063.4	11920.8	11554.0	11207.5	11030.9	10990.2	10881.5	10786.4	10772.8	10766.0
20°	12443.8	12328.3	12002.3	11547.2	11194.0	11112.5	10806.8	10548.7	10351.7	10283.8	10277.0
22.5°	12878.5	12586.4	12131.3	11560.8	11173.6	11058.1	10487.5	10100.4	9747.2	9597.7	9618.1
25°	13279.2	12810.6	12206.0	11499.6	11098.9	10541.9	9903.4	9366.8	9000.0	8877.7	8816.6
27.5°	13557.7	13048.3	12206.0	11554.0	10820.4	9964.5	9312.5	8626.4	8307.2	8225.7	8239.2
30°	13931.3	13347.2	12416.6	11438.5	10263.4	9217.4	8436.2	7987.9	7797.7	7729.8	7777.4
32.5°	14807.5	14128.3	12708.7	11160.0	9604.5	8470.2	7838.5	7587.2	7308.7	7172.8	7125.3
35°	15758.5	14868.7	12994.0	10691.3	8864.2	7790.9	7397.0	7166.0	6833.2	6683.8	6710.9
37.5°	17103.4	15819.6	13014.3	9917.0	8062.6	7410.6	7050.6	6690.6	6418.9	6187.9	6120.0
40°	18917.0	17117.0	12966.8	9101.9	7417.4	6962.3	6697.4	6249.1	5943.4	5780.4	5814.3
42.5°	20513.2	18638.5	12769.8	8178.1	6833.2	6656.6	6357.7	5916.2	5617.4	5447.5	5434.0
45°	21858.1	19759.2	12396.2	7390.2	6344.2	6317.0	5970.6	5630.9	5393.2	5237.0	5304.9
47.5°	23101.1	20662.6	11832.5	6602.3	5895.9	5950.2	5617.4	5406.8	5257.4	5114.7	5107.9
50°	23549.4	20649.1	11336.6	5950.2	5535.8	5508.7	5495.1	5270.9	5114.7	4992.5	5046.8
52.5°	24296.6	20880.0	10800.0	5501.9	5209.8	5216.6	5264.2	5101.1	4924.5	4849.8	4917.7
55°	25369.8	20914.0	9618.1	4978.9	4938.1	4985.7	4985.7	4877.0	4727.5	4666.4	4632.5
56°	24493.6	19901.9	8626.4	4843.0	4802.3	4802.3	4931.3	4809.1	4625.7	4578.1	4537.4
57.5°	22591.7	17436.2	7220.4	4680.0	4618.9	4714.0	4781.9	4652.8	4483.0	4415.1	4455.8
60°	15581.9	11798.5	5427.2	4326.8	4326.8	4483.0	4537.4	4347.2	4272.5	4265.7	4211.3
62.5°	9095.1	6874.0	4245.3	4007.5	4021.1	4150.2	4190.9	4082.3	3987.2	4102.6	4157.0
65°	4822.6	4102.6	3640.8	3667.9	3674.7	3776.6	3953.2	3946.4	3939.6	3973.6	3980.4
67.5°	3491.3	3409.8	3307.9	3280.8	3294.3	3369.1	3545.7	3681.5	3674.7	3593.2	3532.1
70°	3110.9	2995.5	2934.3	2941.1	2886.8	2975.1	3117.7	3206.0	3049.8	2954.7	2914.0
72.5°	2587.9	2554.0	2513.2	2520.0	2411.3	2390.9	2227.9	2227.9	2187.2	2160.0	2207.5
75°	1976.6	1963.0	1983.4	1949.4	1834.0	1711.7	1616.6	1528.3	1392.5	1338.1	1310.9
77.5°	1249.8	1290.6	1338.1	1263.4	1215.8	1127.5	1032.5	944.2	835.5	774.3	774.3
80°	849.1	883.0	917.0	903.4	849.1	767.5	692.8	597.7	523.0	475.5	468.7
82.5°	645.3	672.5	720.0	665.7	611.3	543.4	482.3	414.3	346.4	292.1	292.1
85°	230.9	264.9	292.1	319.2	339.6	346.4	298.9	244.5	197.0	156.2	149.4
87.5°	61.1	67.9	74.7	67.9	67.9	67.9	74.7	67.9	61.1	47.5	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)