

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: P533856

Luminaire Tested: **GALN-SA9B-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43269 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

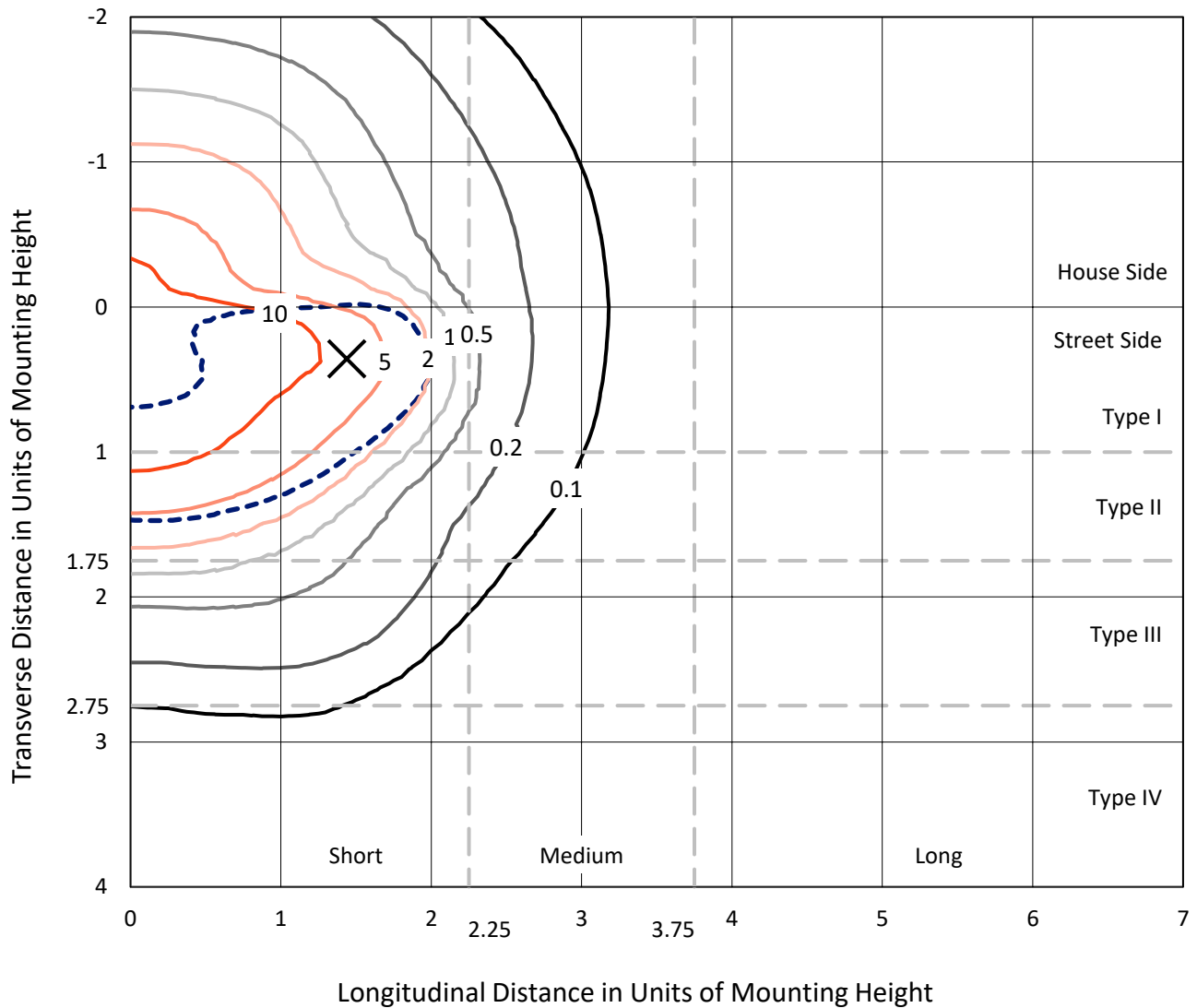
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

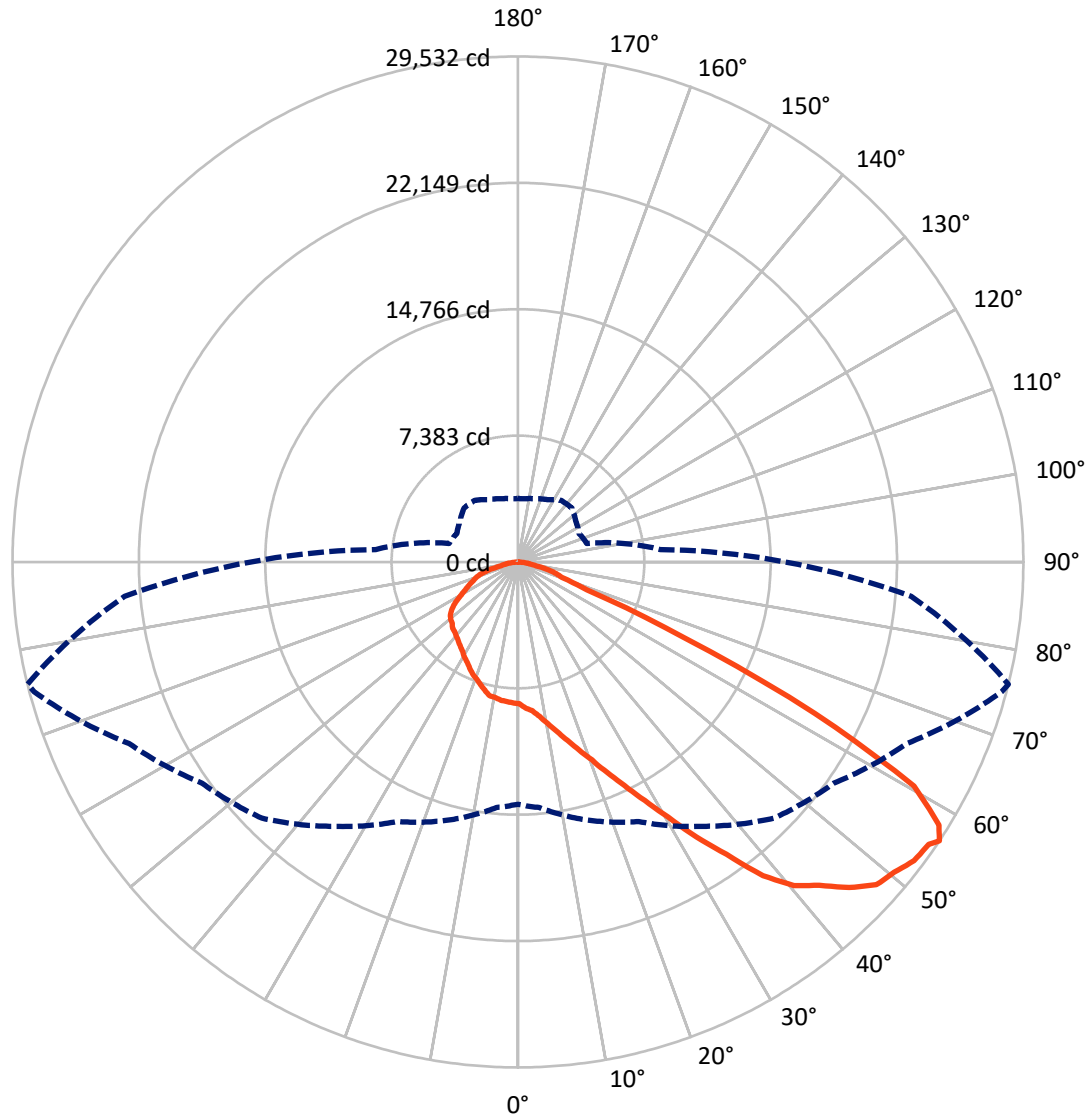
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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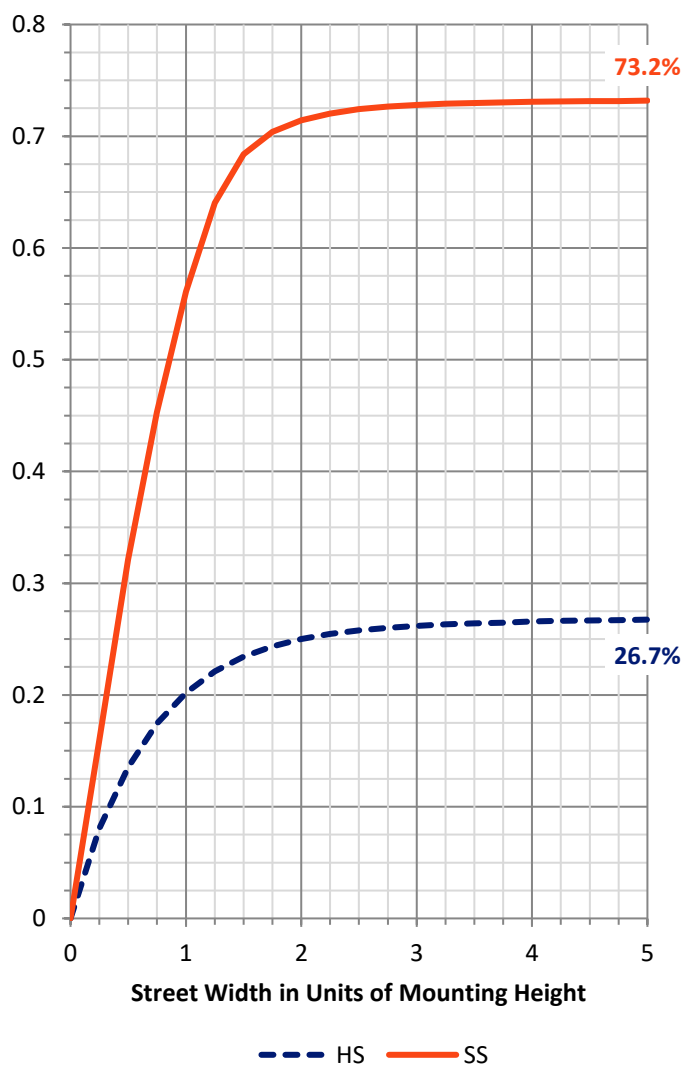
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11633.7	0.0	11633.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	31635.3	0.0	31635.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	43269.0	0.0	43269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.0	1.9
10°-20°	2579.1	6.0
20°-30°	4510.5	10.4
30°-40°	7062.1	16.3
40°-50°	10273.4	23.7
50°-60°	11291.1	26.1
60°-70°	5039.9	11.6
70°-80°	1455.7	3.4
80°-90°	236.1	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°	43269.0	100.0
0°-180°	43269.0	100.0

Coefficient of Utilization



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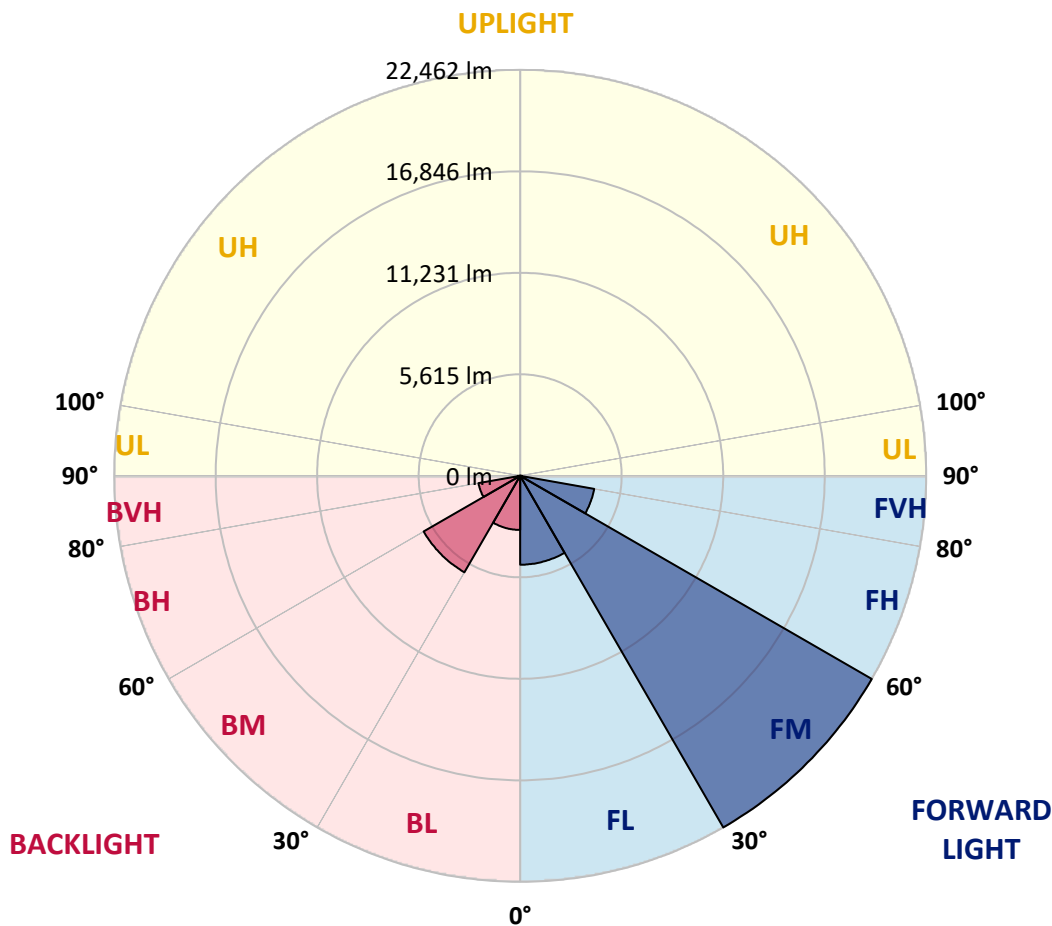
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4917.0	11.4			
FM (30°-60°)	22461.7	51.9			
FH (60°-80°)	4154.8	9.6			G2/5000
FVH (80°-90°)	101.6	0.2			G2/225
BL (0°-30°)	2993.6	6.9	B4/5000		
BM (30°-60°)	6164.9	14.2	B4/8500		
BH (60°-80°)	2340.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	134.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0
2.5°	9120.3	8974.5	8963.3	8924.0	8946.4	8845.5	8738.9	8598.7	8452.8	8542.6	8329.4
5°	9759.8	9563.4	9642.0	9507.4	9524.2	9389.6	9170.8	9008.1	8828.7	8722.1	8570.6
7.5°	9984.1	10000.9	10057.0	10034.6	9922.4	9922.4	9776.6	9490.5	9176.4	9114.7	8862.3
10°	10287.0	10292.6	10230.9	10247.7	10404.8	10331.9	10202.9	10079.5	9675.6	9602.7	9154.0
12.5°	10393.6	10292.6	10393.6	10483.3	10668.4	10769.4	10741.3	10651.6	10219.7	10169.2	9513.0
15°	10410.4	10348.7	10432.8	10634.8	10797.4	11223.7	11436.9	11375.2	10803.0	10808.7	9916.8
17.5°	10331.9	10416.0	10449.7	10623.6	10999.4	11397.6	12014.6	12098.7	11627.6	11554.7	10427.2
20°	10438.5	10376.8	10421.6	10578.7	11077.9	11700.5	12508.2	13063.5	12401.6	12351.1	10954.5
22.5°	10847.9	10763.8	10752.6	10853.5	11212.5	11857.5	13029.8	14028.3	13343.9	13372.0	11610.7
25°	11167.6	11212.5	11173.2	11167.6	11392.0	12093.1	13719.8	15178.1	14622.8	14460.1	12384.8
27.5°	11717.3	11823.9	11745.4	11851.9	11801.5	12446.5	14213.3	16451.4	16002.6	15783.9	13085.9
30°	12480.2	12536.2	12463.3	12463.3	12311.9	12940.1	14662.1	17780.7	17595.6	17298.3	13910.5
32.5°	13484.2	13568.3	13422.5	13338.3	13315.9	13674.9	15469.8	19093.2	19407.3	19154.9	15004.2
35°	14813.5	14763.0	14589.2	14510.6	14207.7	14802.3	16670.1	20602.1	21426.6	20977.9	16328.0
37.5°	15985.8	15907.3	15896.1	15458.6	15531.5	16019.5	17691.0	21746.3	23384.2	23255.1	17724.6
40°	17079.6	17152.5	17270.3	17023.5	16911.3	17449.8	18880.1	22621.3	24904.2	24853.7	18801.6
42.5°	18251.9	18184.6	18392.1	18184.6	18016.3	18779.1	20170.2	23227.1	26239.2	25824.1	19929.0
45°	19951.4	19738.3	19811.2	19828.0	19704.6	19985.1	20703.0	23664.6	27175.9	27131.0	20753.5
47.5°	21370.5	21376.1	21252.7	21157.4	20781.6	21062.0	21297.6	23939.5	28252.8	28179.9	21073.2
50°	21897.8	21824.8	22183.8	22391.4	22413.8	21841.7	21763.1	24090.9	28819.3	28499.6	21392.9
52.5°	20001.9	20069.2	20635.7	21869.7	22582.1	22643.8	22307.2	24405.0	29049.3	28982.0	21651.0
55°	16098.0	16423.3	17354.4	18779.1	20467.4	22324.0	22896.2	24730.3	29172.7	29116.6	22795.2
56°	14151.6	14404.1	15615.6	16731.8	18852.0	21163.0	22526.0	25078.1	29268.1	29531.7	23064.4
57.5°	11392.0	11683.7	12553.1	13820.7	16322.4	18953.0	21505.1	24651.8	28897.9	28998.8	23260.8
60°	7123.5	7151.5	8194.8	9030.6	10791.8	13360.8	16412.1	21449.0	26744.0	26598.1	20893.7
62.5°	4672.3	4678.0	5625.9	6310.2	7112.3	7701.2	9658.8	14224.6	19732.7	19474.6	14875.2
65°	3281.3	3354.2	4089.0	5003.3	5328.6	5020.1	4958.4	7499.3	11021.8	10651.6	7992.9
67.5°	2400.7	2406.3	3056.9	4038.5	4509.7	3819.8	3101.8	3662.7	4363.8	4352.6	3702.0
70°	1587.4	1654.7	2153.9	3017.7	3556.1	3068.2	2535.3	2619.4	2776.5	2776.5	2754.0
72.5°	925.5	987.2	1318.1	1912.7	1996.8	1918.3	2008.0	2243.6	2344.6	2339.0	2310.9
75°	527.3	555.3	628.2	796.5	992.8	1172.3	1475.2	1699.5	1800.5	1862.2	1789.3
77.5°	308.5	325.3	370.2	454.3	516.0	633.8	802.1	959.1	1093.8	1076.9	1088.2
80°	162.7	162.7	207.5	269.2	359.0	448.7	532.9	622.6	695.5	712.4	729.2
82.5°	95.4	101.0	134.6	196.3	258.0	319.7	409.5	471.2	538.5	544.1	555.3
85°	50.5	56.1	84.1	129.0	173.9	196.3	201.9	190.7	207.5	196.3	224.4
87.5°	16.8	16.8	28.0	22.4	22.4	28.0	33.7	33.7	44.9	44.9	44.9
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°	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0	8279.0
2.5°	8323.8	8323.8	8228.5	8049.0	8021.0	7948.0	7880.7	7875.1	7824.6	7779.8	7757.3
5°	8480.9	8307.0	8166.8	8004.1	7813.4	7723.7	7622.7	7510.5	7465.7	7510.5	7504.9
7.5°	8660.4	8514.5	8093.9	7791.0	7572.2	7482.5	7370.3	7252.5	7263.7	7263.7	7185.2
10°	8834.3	8637.9	7964.9	7577.8	7258.1	7190.8	7129.1	7174.0	7230.1	7241.3	7190.8
12.5°	9125.9	8682.8	7903.2	7364.7	7162.8	7016.9	7056.2	7179.6	7297.4	7263.7	7303.0
15°	9344.7	8722.1	7622.7	7145.9	6893.5	6960.8	7101.1	7185.2	7381.5	7359.1	7398.3
17.5°	9557.8	8744.5	7347.9	6854.3	6747.7	6932.8	7039.4	7280.6	7342.3	7476.9	7527.4
20°	9995.3	8789.4	7067.4	6674.8	6641.1	6854.3	7039.4	7151.5	7286.2	7404.0	7404.0
22.5°	10219.7	8767.0	6882.3	6439.2	6545.8	6680.4	6848.7	7039.4	7039.4	7151.5	7157.2
25°	10500.2	8677.2	6590.6	6327.0	6405.5	6534.6	6725.3	6658.0	6730.9	6730.9	6820.6
27.5°	10819.9	8486.5	6338.2	6125.1	6282.1	6422.4	6450.4	6405.5	6321.4	6310.2	6276.5
30°	11077.9	8250.9	6153.1	6057.8	6186.8	6265.3	6175.6	6080.2	5934.4	5923.2	5844.6
32.5°	11431.3	7959.3	5923.2	5889.5	6035.3	6041.0	6012.9	5867.1	5653.9	5564.2	5474.4
35°	12025.8	7791.0	5749.3	5799.8	5844.6	5827.8	5777.3	5620.3	5407.1	5367.9	5334.2
37.5°	12463.3	7667.6	5569.8	5631.5	5670.8	5693.2	5541.7	5367.9	5373.5	5294.9	5272.5
40°	12956.9	7589.1	5424.0	5452.0	5457.6	5530.5	5345.4	5261.3	5300.6	5250.1	5283.7
42.5°	13590.7	7611.5	5272.5	5250.1	5356.6	5328.6	5238.9	5126.7	5149.1	4997.7	5020.1
45°	13927.3	7762.9	5182.8	5081.8	5199.6	5194.0	5076.2	4969.6	4835.0	4543.3	4554.6
47.5°	14151.6	7802.2	4969.6	4902.3	5025.7	5098.6	4964.0	4717.2	4526.5	4319.0	4268.5
50°	14381.6	7875.1	4868.7	4728.4	4778.9	4952.8	4784.5	4548.9	4363.8	4178.7	4206.8
52.5°	14583.5	8015.3	4672.3	4464.8	4554.6	4745.3	4655.5	4369.5	4167.5	4016.1	3971.2
55°	15481.0	8329.4	4341.4	4072.2	4285.3	4526.5	4476.0	4128.3	3909.5	3831.0	3819.8
56°	15621.2	8340.7	4167.5	3937.6	4133.9	4453.6	4391.9	4021.7	3825.4	3702.0	3707.6
57.5°	15643.7	8206.0	3920.7	3814.2	3982.4	4347.0	4268.5	3937.6	3668.3	3556.1	3522.5
60°	13764.6	6405.5	3612.2	3544.9	3741.2	4021.7	3993.6	3707.6	3404.7	3275.7	3337.4
62.5°	9384.0	4694.8	3371.0	3359.8	3460.8	3735.6	3662.7	3404.7	3152.3	3068.2	3028.9
65°	5463.2	3561.8	3135.5	3090.6	3174.7	3320.6	3371.0	3101.8	2838.2	2782.1	2765.3
67.5°	3225.2	2944.8	2832.6	2759.7	2731.6	2821.4	2860.6	2703.6	2439.9	2361.4	2428.7
70°	2698.0	2619.4	2625.0	2501.6	2434.3	2372.6	2339.0	2198.8	1980.0	1879.0	1851.0
72.5°	2327.8	2294.1	2271.7	2159.5	2097.8	1957.6	1811.7	1671.5	1508.8	1424.7	1430.3
75°	1778.1	1766.9	1778.1	1722.0	1615.4	1503.2	1368.6	1189.1	1065.7	959.1	981.6
77.5°	1060.1	1093.8	1110.6	1088.2	1043.3	942.3	858.2	740.4	622.6	538.5	527.3
80°	729.2	757.2	785.3	757.2	712.4	639.4	549.7	459.9	375.8	330.9	319.7
82.5°	555.3	583.3	600.2	572.1	516.0	437.5	375.8	314.1	246.8	201.9	190.7
85°	201.9	230.0	224.4	269.2	291.7	280.5	241.2	185.1	140.2	101.0	95.4
87.5°	56.1	50.5	56.1	56.1	56.1	50.5	44.9	44.9	44.9	28.0	22.4
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)