

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: P534160

Luminaire Tested: **GALN-SA9C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39712 lumens
Efficiency: N/A
Efficacy: 82.6 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

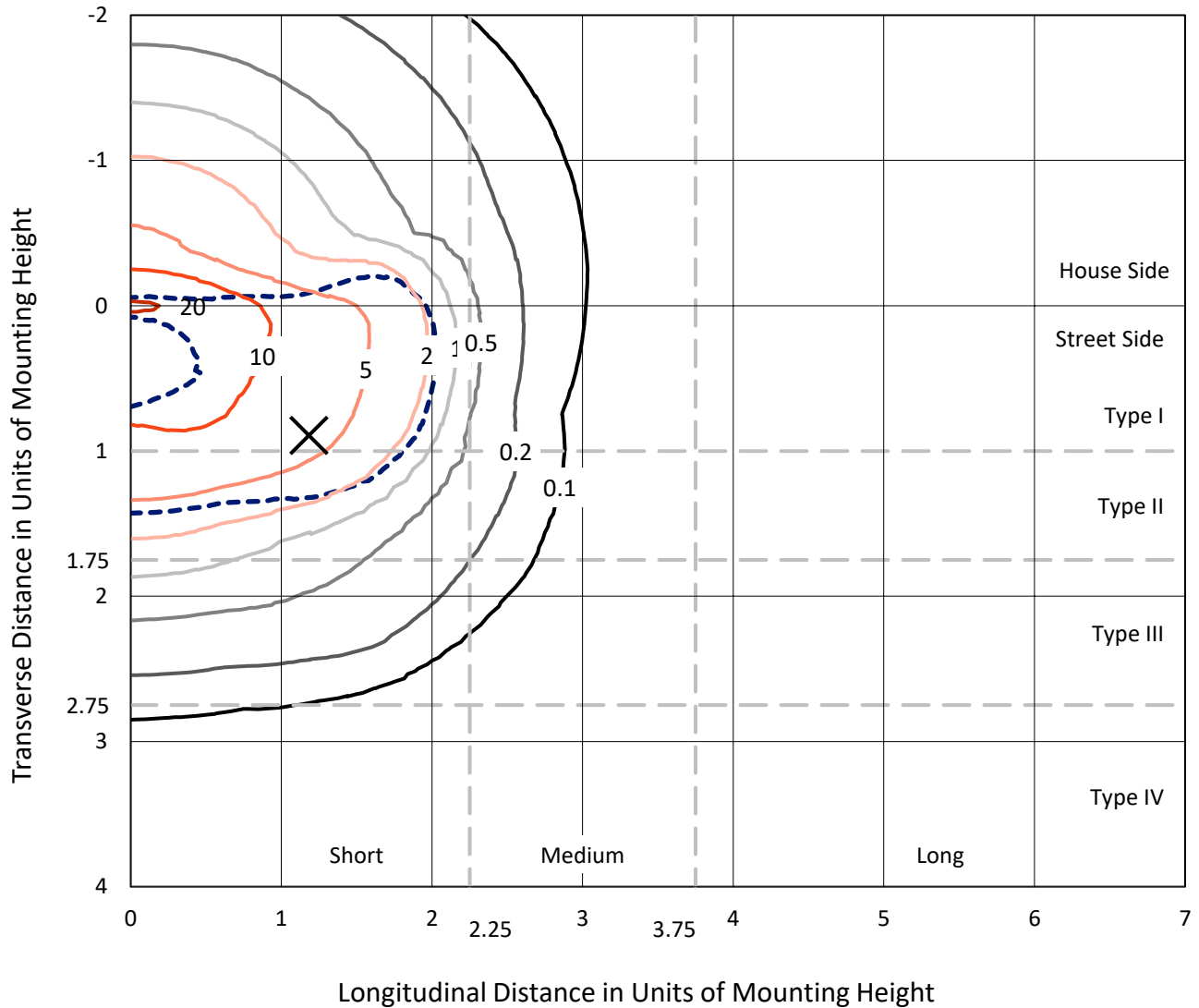
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

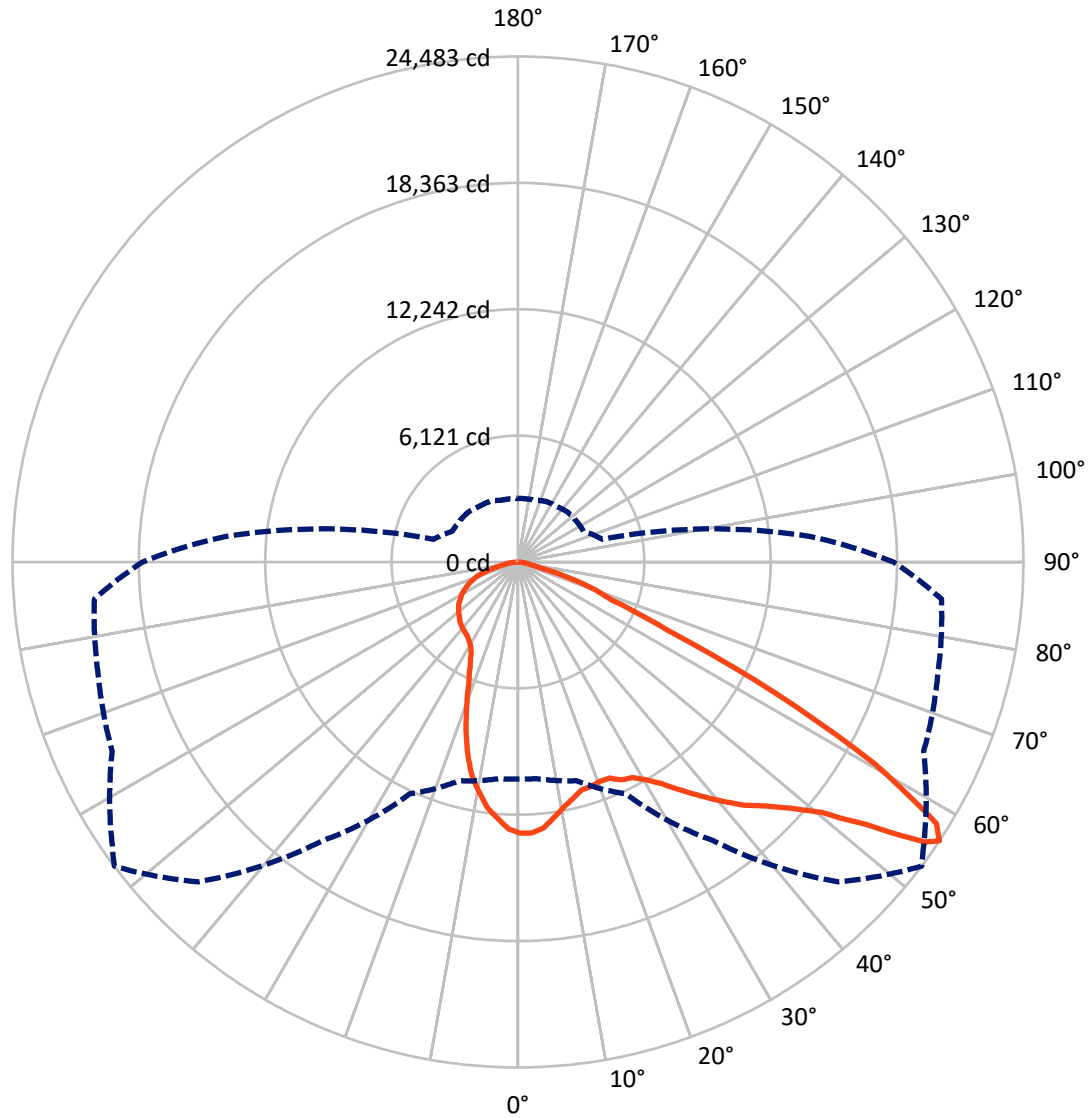
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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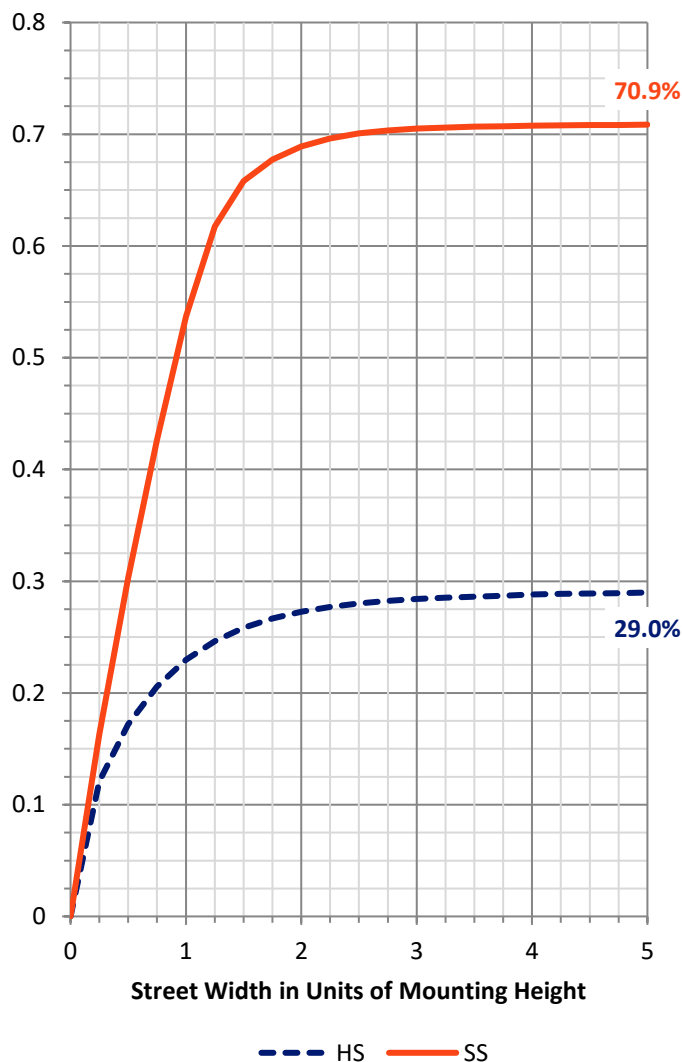
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11588.8	0.0	11588.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	28123.2	0.0	28123.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	39712.0	0.0	39712.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1163.1	2.9
10°-20°	2904.9	7.3
20°-30°	4283.6	10.8
30°-40°	6120.4	15.4
40°-50°	8424.0	21.2
50°-60°	9954.9	25.1
60°-70°	5305.3	13.4
70°-80°	1345.9	3.4
80°-90°	209.9	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°	39712.0	100.0
0°-180°	39712.0	100.0



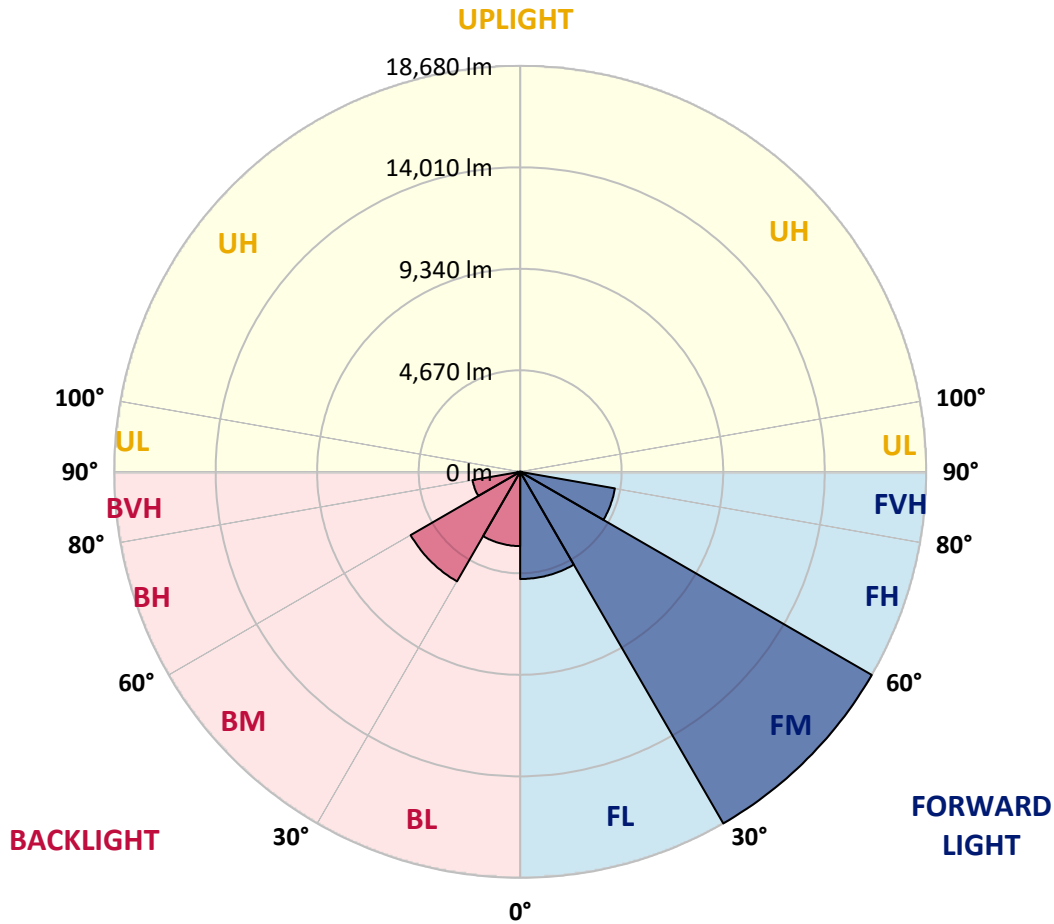
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4933.6	12.4			
FM (30°-60°)	18679.8	47.0			
FH (60°-80°)	4425.4	11.1			G2/5000
FVH (80°-90°)	84.4	0.2			G1/100
BL (0°-30°)	3418.0	8.6	B4/5000		
BM (30°-60°)	5819.5	14.7	B4/8500		
BH (60°-80°)	2225.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	125.5	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°	53°	55°	65°	75°	85°
0°	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3
2.5°	12975.3	12863.2	12929.4	12904.0	13112.8	13174.0	13143.4	13168.9	13286.0	13230.0	13112.8
5°	12124.5	12282.4	12313.0	12389.4	12511.7	12751.1	12939.6	12990.6	13046.6	13306.4	13280.9
7.5°	11350.2	11457.2	11401.1	11625.3	11890.2	12277.4	12506.6	12547.4	13061.9	13204.5	13311.5
10°	10861.1	10754.1	11008.9	11070.0	11370.6	11813.8	12088.9	12257.0	12725.7	13291.1	13357.4
12.5°	10407.7	10372.1	10524.9	10698.1	11034.3	11492.8	11773.0	11839.2	12562.6	13158.7	13469.4
15°	10071.5	10030.7	10183.6	10310.9	10703.2	11110.7	11467.4	11655.8	12384.3	13082.3	13372.6
17.5°	9806.6	9801.5	9888.1	10117.4	10519.8	10861.1	11436.8	11447.0	12292.6	13199.4	13454.1
20°	9791.3	9786.2	9801.5	10056.2	10423.0	10840.7	11340.0	11431.7	12292.6	13117.9	13459.2
22.5°	9918.7	9837.2	9928.9	10091.9	10356.8	10876.4	11375.7	11579.4	12588.1	13520.4	13688.5
25°	10122.4	10142.8	10193.8	10249.8	10402.6	10957.9	11691.5	11859.6	12934.5	13866.8	14004.3
27.5°	10494.3	10484.1	10504.5	10535.1	10667.5	11034.3	11818.9	12251.9	13657.9	14483.2	14345.7
30°	11039.4	11003.8	11085.3	11192.3	11070.0	11278.9	12241.7	12567.7	14330.4	15104.7	14727.7
32.5°	11533.6	11666.0	11818.9	11864.7	11717.0	11757.7	12802.1	13133.2	14890.7	15868.9	15196.4
35°	12150.0	12257.0	12460.7	12603.4	12577.9	12455.7	13566.2	14004.3	15700.7	16429.2	15690.6
37.5°	12751.1	12878.5	13214.7	13637.5	13403.2	13347.2	14381.3	14743.0	15950.4	16729.8	16052.3
40°	13719.0	13714.0	14294.7	14513.8	14722.6	14625.8	15227.0	15349.2	16082.8	16663.6	16062.4
42.5°	14855.1	14783.8	15374.7	15716.0	15986.0	15996.2	16108.3	16067.5	16144.0	16327.3	15955.5
45°	15935.1	16087.9	16684.0	17295.3	17565.3	17595.8	16852.1	16775.7	16250.9	16230.6	15751.7
47.5°	17254.5	17290.2	17779.2	18584.1	19210.7	18996.8	17814.9	17646.8	16719.6	16877.5	16093.0
50°	17330.9	17595.8	18034.0	18981.5	20907.2	20851.1	19063.0	18747.2	17473.6	17794.5	17045.7
52.5°	15731.3	15670.2	16189.8	17738.5	20779.8	22695.3	21131.3	20377.3	19093.6	18849.0	18589.2
55°	11987.0	12129.6	12588.1	14152.1	18044.1	22720.7	23948.5	23332.1	20825.6	20407.9	20107.3
56°	10514.7	10535.1	10968.1	12394.5	16464.9	21910.7	24483.4	23984.1	21686.6	21049.8	20591.3
57.5°	8716.4	8599.2	8823.4	9602.8	13897.4	20199.0	23897.5	24386.6	22695.3	21742.6	21105.8
60°	6862.1	6836.6	6744.9	6887.5	8782.6	15216.8	19893.4	20993.8	22593.4	21090.6	20214.3
62.5°	5603.8	5476.4	5659.8	5863.6	6103.0	9439.8	13978.9	14625.8	17937.2	16836.8	15186.2
65°	4345.5	4284.3	4513.6	5175.8	5318.5	5996.0	7962.4	8461.7	10591.1	10402.6	9159.6
67.5°	2990.4	3000.6	3199.2	4207.9	4931.3	4870.2	4875.3	5135.1	5527.4	4106.0	3576.2
70°	1895.1	1890.0	1997.0	2710.2	3968.5	4009.2	3805.5	3729.1	3535.5	2139.6	2267.0
72.5°	1217.5	1181.9	1237.9	1497.7	2053.0	2374.0	2445.3	2491.1	2047.9	1681.1	1823.8
75°	687.7	652.1	631.7	697.9	810.0	937.4	1029.1	1059.6	1187.0	1273.6	1350.0
77.5°	208.9	188.5	229.2	305.7	402.5	540.0	657.2	677.5	799.8	901.7	978.1
80°	91.7	101.9	142.6	203.8	285.3	382.1	463.6	494.2	575.7	652.1	672.5
82.5°	56.0	61.1	96.8	137.5	198.7	270.0	331.1	341.3	422.8	484.0	499.2
85°	20.4	25.5	50.9	81.5	127.4	173.2	173.2	188.5	173.2	173.2	188.5
87.5°	0.0	0.0	5.1	10.2	10.2	15.3	20.4	20.4	25.5	30.6	35.7
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°	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3	13138.3
2.5°	13174.0	13148.5	13107.7	12960.0	12944.7	12898.9	12644.1	12603.4	12644.1	12521.9	12532.1
5°	13148.5	13224.9	12919.2	12771.5	12496.4	12297.7	12068.5	11951.3	11742.4	11610.0	11757.7
7.5°	13260.6	13230.0	12847.9	12527.0	12114.3	11610.0	11207.5	10978.3	10611.5	10509.6	10586.0
10°	13219.8	13056.8	12608.5	12185.7	11406.2	10963.0	10310.9	9679.2	9332.8	9154.5	9129.1
12.5°	13163.8	13117.9	12369.0	11640.6	10820.4	9888.1	8971.1	8375.1	7809.6	7565.1	7600.8
15°	13230.0	12842.8	11920.7	10998.7	9908.5	8685.8	7697.5	6928.3	6536.0	6378.1	6378.1
17.5°	13199.4	12710.4	11706.8	10280.4	8899.8	7453.0	6367.9	5904.3	5741.3	5741.3	5787.2
20°	13214.7	12797.0	11273.8	9562.1	7707.7	6276.2	5486.6	5318.5	5389.8	5415.3	5440.8
22.5°	13301.3	12511.7	10850.9	8772.4	6602.3	5369.4	4982.3	4987.4	5114.7	5252.3	5226.8
25°	13408.3	12399.6	10336.4	7987.9	5756.6	4926.2	4804.0	4788.7	4885.5	4956.8	4967.0
27.5°	13316.6	12206.0	9811.7	7009.8	5063.8	4630.8	4605.3	4615.5	4646.0	4788.7	4742.8
30°	13617.2	12262.1	9154.5	6189.6	4681.7	4534.0	4503.4	4488.1	4534.0	4574.7	4539.1
32.5°	13989.0	12063.4	8665.5	5400.0	4493.2	4462.6	4401.5	4381.1	4406.6	4365.8	4386.2
35°	14152.1	12027.7	8028.7	4834.5	4345.5	4320.0	4284.3	4279.2	4284.3	4248.7	4218.1
37.5°	14243.8	12195.8	7300.2	4574.7	4253.8	4279.2	4197.7	4187.5	4095.8	4116.2	4131.5
40°	14401.7	11936.0	6709.2	4325.1	4197.7	4146.8	4075.5	4060.2	3999.1	3963.4	3999.1
42.5°	14172.4	11859.6	6128.5	4218.1	4116.2	4060.2	4009.2	3922.6	3902.3	3871.7	3851.3
45°	13989.0	11421.5	5608.9	4085.7	4019.4	3988.9	3892.1	3800.4	3724.0	3754.5	3708.7
47.5°	14126.6	11268.7	5094.3	3973.6	3887.0	3851.3	3754.5	3683.2	3606.8	3571.1	3560.9
50°	14676.8	11554.0	4661.3	3892.1	3774.9	3754.5	3627.2	3545.7	3474.3	3448.9	3459.1
52.5°	15991.1	12333.4	4365.8	3724.0	3667.9	3576.2	3504.9	3403.0	3357.2	3275.7	3326.6
55°	17657.0	13601.9	4289.4	3566.0	3535.5	3454.0	3357.2	3280.8	3194.1	3127.9	3112.6
56°	18191.9	14208.1	4228.3	3504.9	3454.0	3408.1	3280.8	3234.9	3097.4	3082.1	3071.9
57.5°	18624.9	14743.0	4238.5	3387.7	3336.8	3296.0	3219.6	3107.5	3015.8	2959.8	2985.3
60°	17646.8	13800.6	4044.9	3209.4	3199.2	3122.8	3015.8	2964.9	2852.8	2786.6	2771.3
62.5°	13117.9	9368.5	3280.8	2980.2	2975.1	2893.6	2771.3	2715.3	2694.9	2603.2	2603.2
65°	7554.9	5873.8	2837.5	2791.7	2750.9	2669.4	2547.2	2501.3	2450.4	2419.8	2394.3
67.5°	3224.7	3046.4	2577.7	2572.6	2526.8	2424.9	2302.6	2231.3	2165.1	2104.0	2134.5
70°	2338.3	2374.0	2328.1	2302.6	2246.6	2119.2	2012.3	1925.7	1823.8	1783.0	1813.6
72.5°	1854.3	1930.8	1997.0	2002.1	1935.8	1788.1	1670.9	1553.8	1441.7	1385.7	1411.1
75°	1406.0	1457.0	1523.2	1538.5	1441.7	1339.8	1227.7	1105.5	1018.9	952.6	962.8
77.5°	1013.8	1003.6	1064.7	1054.5	1008.7	937.4	835.5	723.4	626.6	565.5	570.6
80°	692.8	708.1	743.8	738.7	682.6	636.8	560.4	468.7	397.4	346.4	336.2
82.5°	484.0	509.4	540.0	514.5	468.7	422.8	366.8	300.6	244.5	203.8	193.6
85°	173.2	198.7	229.2	244.5	259.8	249.6	208.9	168.1	122.3	101.9	96.8
87.5°	35.7	40.8	45.8	45.8	45.8	40.8	35.7	35.7	30.6	15.3	15.3
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)