

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: P531508

Luminaire Tested: **GALN-SA6D-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531508
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-SA6D-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA 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: 38882 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

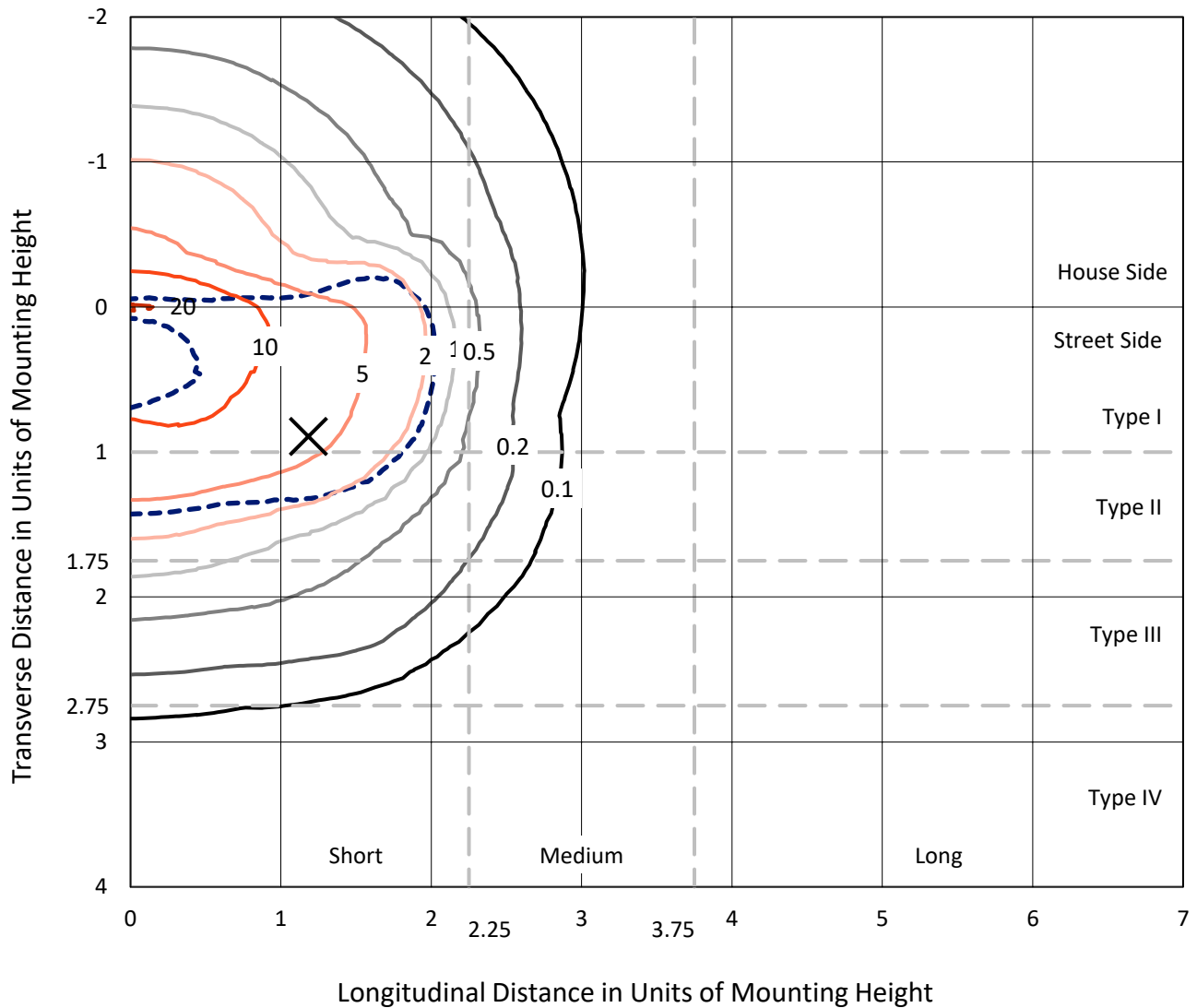
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

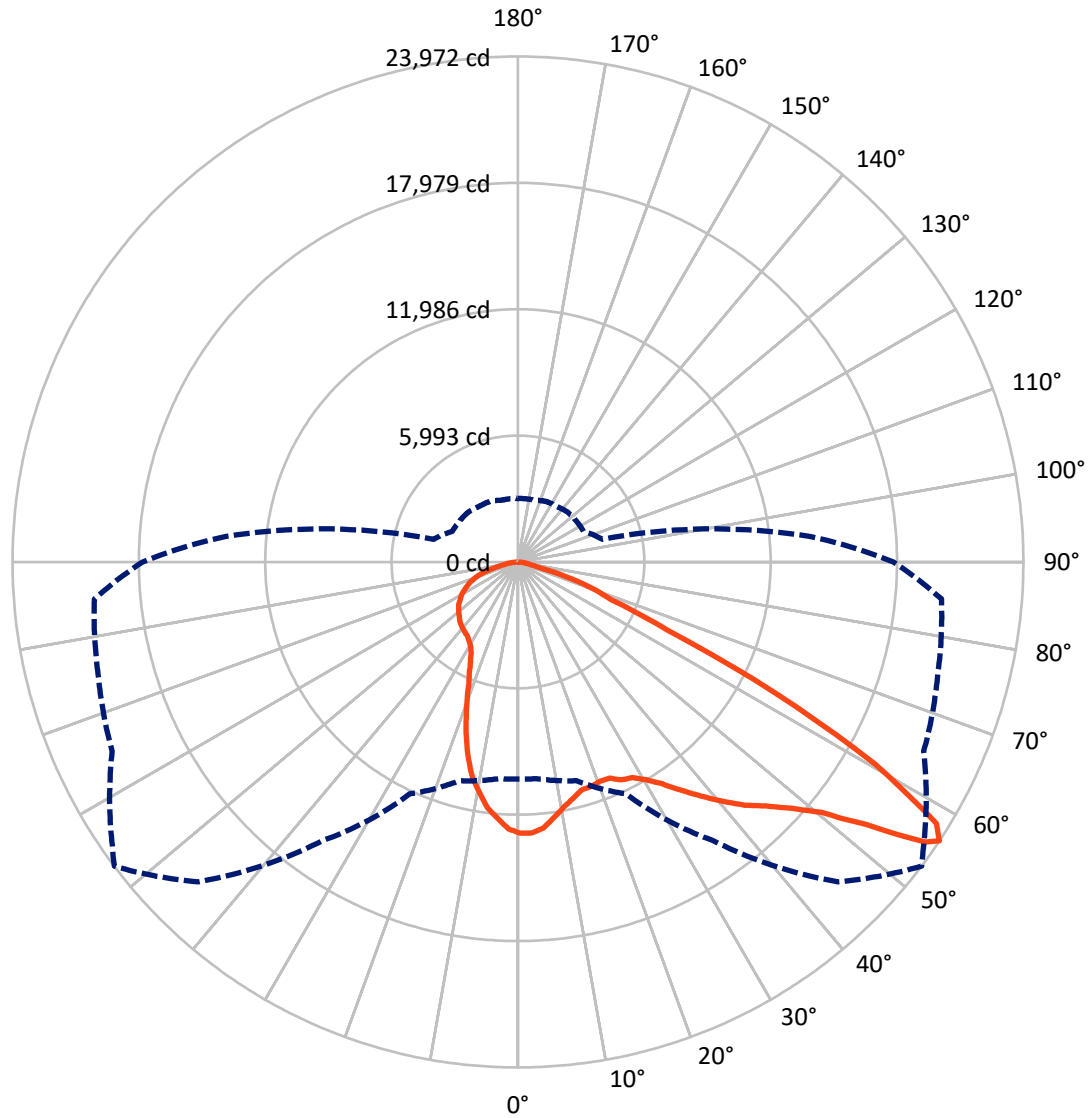
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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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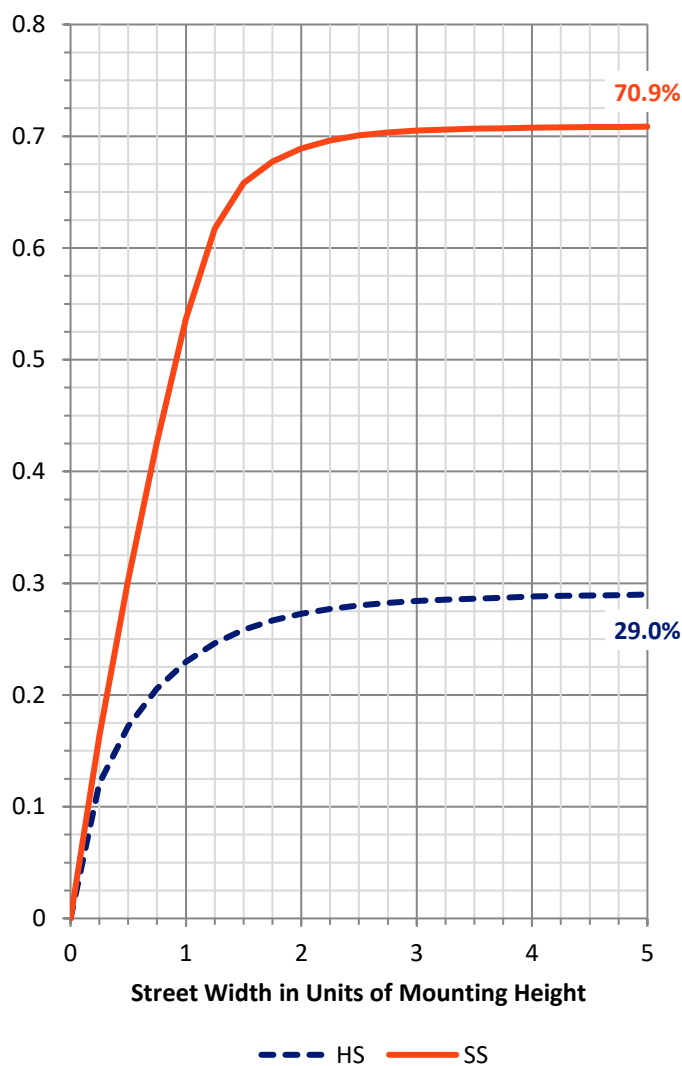
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11346.6	0.0	11346.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	27535.4	0.0	27535.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	38882.0	0.0	38882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.8	2.9
10°-20°	2844.2	7.3
20°-30°	4194.1	10.8
30°-40°	5992.5	15.4
40°-50°	8247.9	21.2
50°-60°	9746.8	25.1
60°-70°	5194.4	13.4
70°-80°	1317.8	3.4
80°-90°	205.5	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°	38882.0	100.0
0°-180°	38882.0	100.0

Coefficient of Utilization



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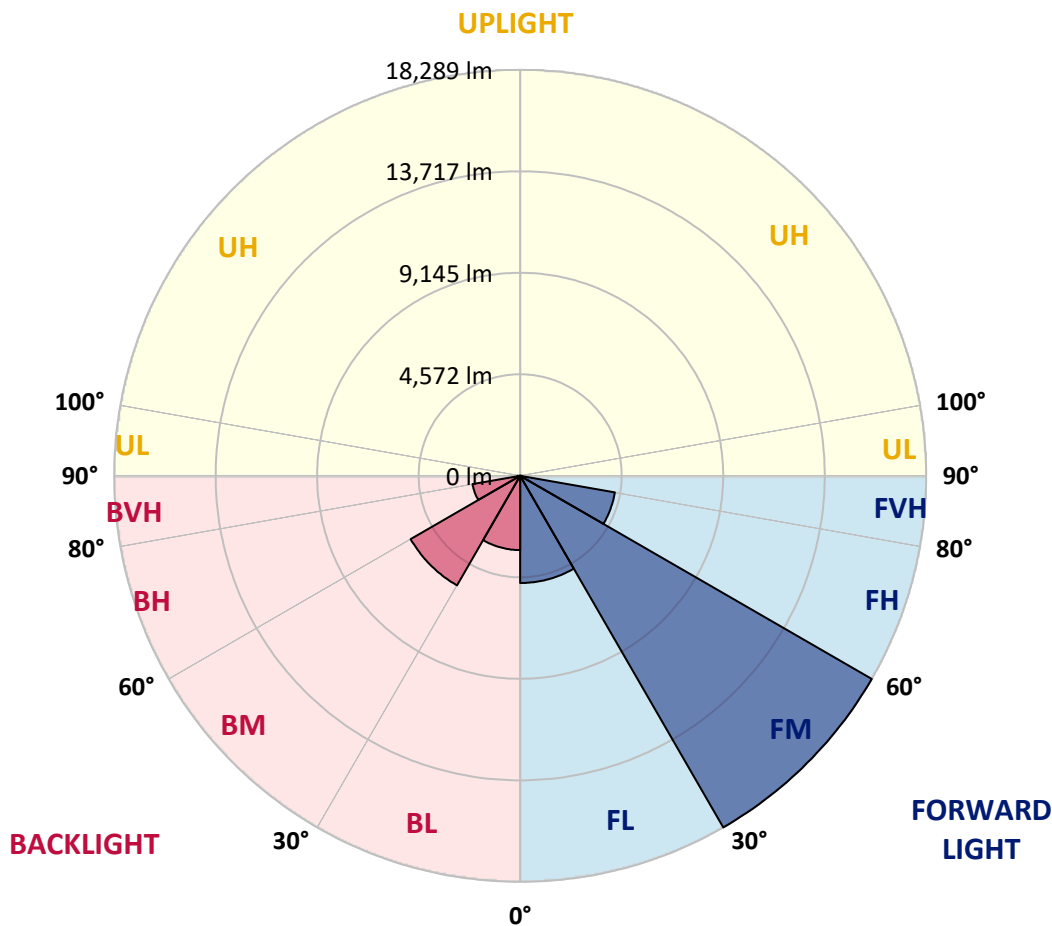
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4830.5	12.4			
FM (30°-60°)	18289.3	47.0			
FH (60°-80°)	4332.9	11.1			G2/5000
FVH (80°-90°)	82.6	0.2			G1/100
BL (0°-30°)	3346.6	8.6	B4/5000		
BM (30°-60°)	5697.9	14.7	B4/8500		
BH (60°-80°)	2179.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	122.9	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°	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7
2.5°	12704.1	12594.4	12659.2	12634.3	12838.8	12898.6	12868.7	12893.6	13008.3	12953.5	12838.8
5°	11871.1	12025.7	12055.7	12130.5	12250.2	12484.6	12669.2	12719.0	12773.9	13028.3	13003.4
7.5°	11113.0	11217.7	11162.8	11382.3	11641.7	12020.7	12245.2	12285.1	12788.9	12928.5	13033.3
10°	10634.1	10529.4	10778.8	10838.6	11132.9	11566.9	11836.2	12000.8	12459.7	13013.3	13078.2
12.5°	10190.2	10155.3	10304.9	10474.5	10803.7	11252.6	11527.0	11591.8	12300.1	12883.6	13187.9
15°	9861.0	9821.1	9970.7	10095.4	10479.5	10878.5	11227.7	11412.2	12125.5	12808.8	13093.1
17.5°	9601.6	9596.6	9681.4	9905.9	10299.9	10634.1	11197.8	11207.7	12035.7	12923.6	13172.9
20°	9586.7	9581.7	9596.6	9846.0	10205.2	10614.2	11103.0	11192.8	12035.7	12843.7	13177.9
22.5°	9711.4	9631.6	9721.3	9881.0	10140.3	10649.1	11137.9	11337.4	12325.0	13237.8	13402.4
25°	9910.9	9930.8	9980.7	10035.6	10185.2	10728.9	11447.1	11611.7	12664.2	13577.0	13711.6
27.5°	10275.0	10265.0	10285.0	10314.9	10444.6	10803.7	11571.8	11995.8	13372.5	14180.5	14045.8
30°	10808.7	10773.8	10853.6	10958.3	10838.6	11043.1	11985.8	12305.1	14030.9	14789.0	14419.9
32.5°	11292.5	11422.2	11571.8	11616.7	11472.1	11512.0	12534.5	12858.7	14579.5	15537.2	14878.8
35°	11896.1	12000.8	12200.3	12340.0	12315.0	12195.3	13282.7	13711.6	15372.6	16085.9	15362.6
37.5°	12484.6	12609.3	12938.5	13352.5	13123.1	13068.2	14080.7	14434.9	15617.0	16380.1	15716.8
40°	13432.3	13427.3	13995.9	14210.4	14414.9	14320.2	14908.7	15028.4	15746.7	16315.3	15726.7
42.5°	14544.6	14474.8	15053.4	15387.6	15651.9	15661.9	15771.6	15731.7	15806.5	15986.1	15622.0
45°	15602.0	15751.7	16335.3	16933.8	17198.2	17228.1	16499.8	16425.0	15911.3	15891.3	15422.5
47.5°	16893.9	16928.8	17407.6	18195.7	18809.2	18599.7	17442.6	17278.0	16370.2	16524.8	15756.7
50°	16968.7	17228.1	17657.0	18584.8	20470.2	20415.3	18664.6	18355.3	17108.4	17422.6	16689.4
52.5°	15402.5	15342.7	15851.4	17367.7	20345.5	22220.9	20689.7	19951.5	18694.5	18455.1	18200.7
55°	11736.4	11876.1	12325.0	13856.3	17667.0	22245.9	23447.9	22844.4	20390.4	19981.4	19687.1
56°	10294.9	10314.9	10738.9	12135.5	16120.8	21452.8	23971.7	23482.9	21233.3	20609.8	20160.9
57.5°	8534.2	8419.5	8639.0	9402.1	13606.9	19776.9	23398.1	23876.9	22220.9	21288.2	20664.7
60°	6718.7	6693.7	6603.9	6743.6	8599.1	14898.7	19477.6	20555.0	22121.2	20649.8	19791.8
62.5°	5486.6	5362.0	5541.5	5741.0	5975.5	9242.5	13686.7	14320.2	17562.3	16484.9	14868.8
65°	4254.6	4194.8	4419.2	5067.7	5207.3	5870.7	7796.0	8284.8	10369.8	10185.2	8968.2
67.5°	2927.9	2937.9	3132.4	4120.0	4828.3	4768.4	4773.4	5027.8	5411.8	4020.2	3501.5
70°	1855.5	1850.5	1955.2	2653.5	3885.5	3925.4	3725.9	3651.1	3461.6	2094.9	2219.6
72.5°	1192.1	1157.2	1212.1	1466.4	2010.1	2324.3	2394.2	2439.1	2005.1	1646.0	1785.7
75°	673.4	638.4	618.5	683.3	793.1	917.8	1007.5	1037.5	1162.2	1247.0	1321.8
77.5°	204.5	184.6	224.5	299.3	394.0	528.7	643.4	663.4	783.1	882.9	957.7
80°	89.8	99.8	139.7	199.5	279.3	374.1	453.9	483.8	563.6	638.4	658.4
82.5°	54.9	59.9	94.8	134.7	194.5	264.4	324.2	334.2	414.0	473.8	488.8
85°	20.0	24.9	49.9	79.8	124.7	169.6	169.6	184.6	169.6	169.6	184.6
87.5°	0.0	0.0	5.0	10.0	10.0	15.0	20.0	20.0	24.9	29.9	34.9
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°	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7	12863.7
2.5°	12898.6	12873.7	12833.8	12689.1	12674.2	12629.3	12379.9	12340.0	12379.9	12260.2	12270.1
5°	12873.7	12948.5	12649.2	12504.6	12235.2	12040.7	11816.2	11701.5	11497.0	11367.3	11512.0
7.5°	12983.4	12953.5	12579.4	12265.2	11861.1	11367.3	10973.3	10748.8	10389.7	10290.0	10364.8
10°	12943.5	12783.9	12345.0	11931.0	11167.8	10733.9	10095.4	9476.9	9137.8	8963.2	8938.3
12.5°	12888.6	12843.7	12110.5	11397.3	10594.2	9681.4	8783.6	8200.0	7646.4	7407.0	7441.9
15°	12953.5	12574.4	11671.6	10768.8	9701.4	8504.3	7536.7	6783.5	6399.4	6244.8	6244.8
17.5°	12923.6	12444.7	11462.1	10065.5	8713.8	7297.2	6234.8	5780.9	5621.3	5621.3	5666.2
20°	12938.5	12529.5	11038.1	9362.2	7546.6	6145.0	5371.9	5207.3	5277.2	5302.1	5327.0
22.5°	13023.3	12250.2	10624.1	8589.1	6464.3	5257.2	4878.1	4883.1	5007.8	5142.5	5117.5
25°	13128.1	12140.5	10120.4	7821.0	5636.3	4823.3	4703.6	4688.6	4783.4	4853.2	4863.2
27.5°	13038.3	11950.9	9606.6	6863.3	4957.9	4534.0	4509.0	4519.0	4548.9	4688.6	4643.7
30°	13332.6	12005.8	8963.2	6060.3	4583.8	4439.2	4409.3	4394.3	4439.2	4479.1	4444.2
32.5°	13696.7	11811.3	8484.4	5287.1	4399.3	4369.4	4309.5	4289.6	4314.5	4274.6	4294.5
35°	13856.3	11776.3	7860.9	4733.5	4254.6	4229.7	4194.8	4189.8	4194.8	4159.9	4130.0
37.5°	13946.1	11940.9	7147.6	4479.1	4164.9	4189.8	4110.0	4100.0	4010.2	4030.2	4045.2
40°	14100.7	11686.6	6569.0	4234.7	4110.0	4060.1	3990.3	3975.3	3915.5	3880.6	3915.5
42.5°	13876.2	11611.7	6000.4	4130.0	4030.2	3975.3	3925.4	3840.7	3820.7	3790.8	3770.8
45°	13696.7	11182.8	5491.6	4000.3	3935.4	3905.5	3810.7	3720.9	3646.1	3676.1	3631.2
47.5°	13831.3	11033.2	4987.9	3890.5	3805.7	3770.8	3676.1	3606.2	3531.4	3496.5	3486.5
50°	14370.0	11312.5	4563.9	3810.7	3696.0	3676.1	3551.4	3471.6	3401.7	3376.8	3386.8
52.5°	15656.9	12075.6	4274.6	3646.1	3591.3	3501.5	3431.6	3331.9	3287.0	3207.2	3257.1
55°	17287.9	13317.6	4199.8	3491.5	3461.6	3381.8	3287.0	3212.2	3127.4	3062.5	3047.6
56°	17811.7	13911.1	4139.9	3431.6	3381.8	3336.9	3212.2	3167.3	3032.6	3017.7	3007.7
57.5°	18235.6	14434.9	4149.9	3316.9	3267.1	3227.1	3152.3	3042.6	2952.8	2897.9	2922.9
60°	17278.0	13512.1	3960.4	3142.4	3132.4	3057.6	2952.8	2902.9	2793.2	2728.4	2713.4
62.5°	12843.7	9172.7	3212.2	2917.9	2912.9	2833.1	2713.4	2658.5	2638.6	2548.8	2548.8
65°	7397.0	5751.0	2778.2	2733.3	2693.4	2613.6	2493.9	2449.0	2399.2	2369.2	2344.3
67.5°	3157.3	2982.7	2523.9	2518.9	2474.0	2374.2	2254.5	2184.7	2119.8	2060.0	2089.9
70°	2289.4	2324.3	2279.5	2254.5	2199.6	2075.0	1970.2	1885.4	1785.7	1745.8	1775.7
72.5°	1815.6	1890.4	1955.2	1960.2	1895.4	1750.7	1636.0	1521.3	1411.6	1356.7	1381.6
75°	1376.7	1426.5	1491.4	1506.3	1411.6	1311.8	1202.1	1082.4	997.6	932.7	942.7
77.5°	992.6	982.6	1042.5	1032.5	987.6	917.8	818.0	708.3	613.5	553.7	558.6
80°	678.3	693.3	728.2	723.2	668.4	623.5	548.7	458.9	389.1	339.2	329.2
82.5°	473.8	498.8	528.7	503.8	458.9	414.0	359.1	294.3	239.4	199.5	189.5
85°	169.6	194.5	224.5	239.4	254.4	244.4	204.5	164.6	119.7	99.8	94.8
87.5°	34.9	39.9	44.9	44.9	44.9	39.9	34.9	34.9	29.9	15.0	15.0
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)