

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: P532446

Luminaire Tested: **GALN-SA7D-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45584 lumens
Efficiency: N/A
Efficacy: 105.3 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

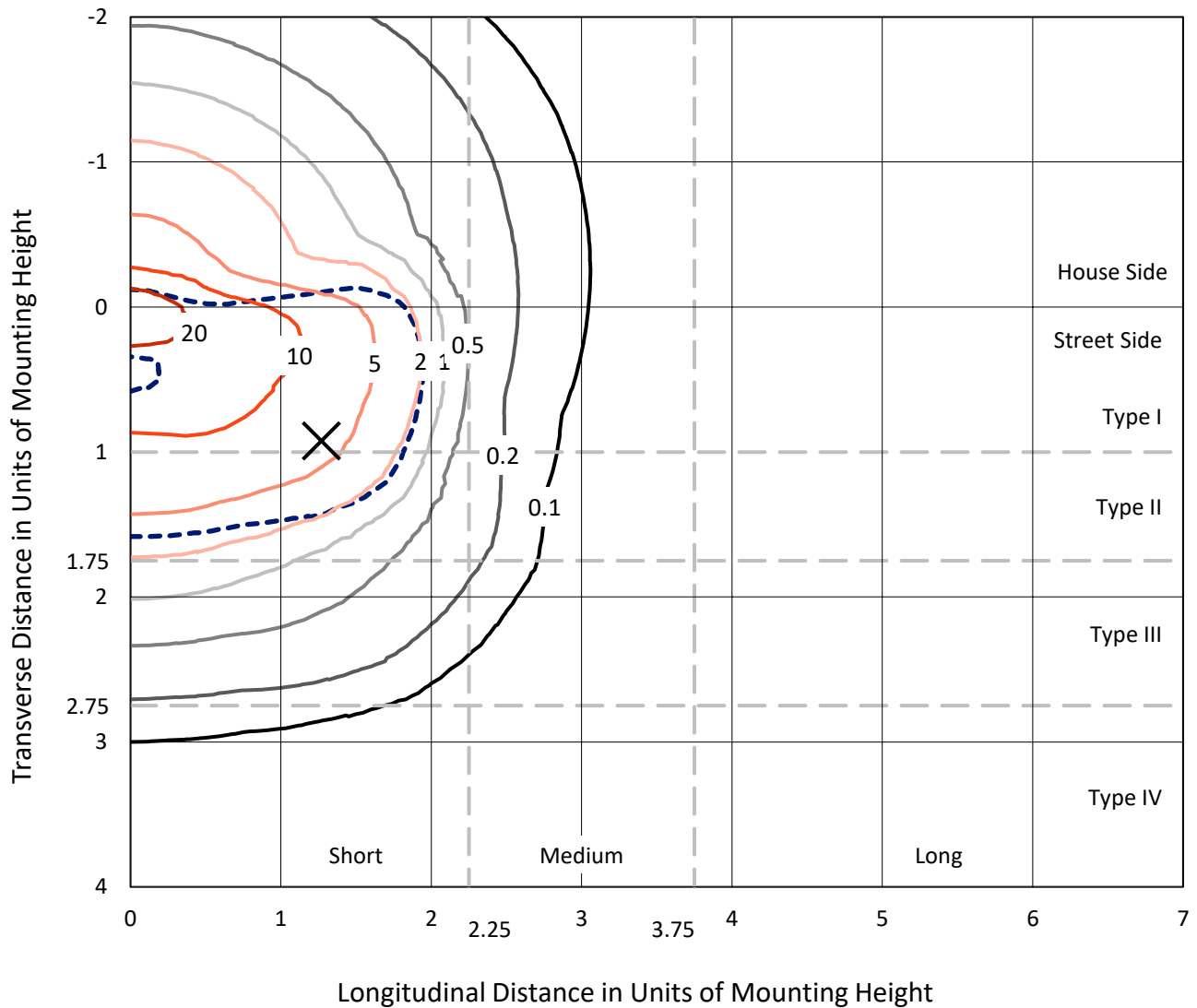
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

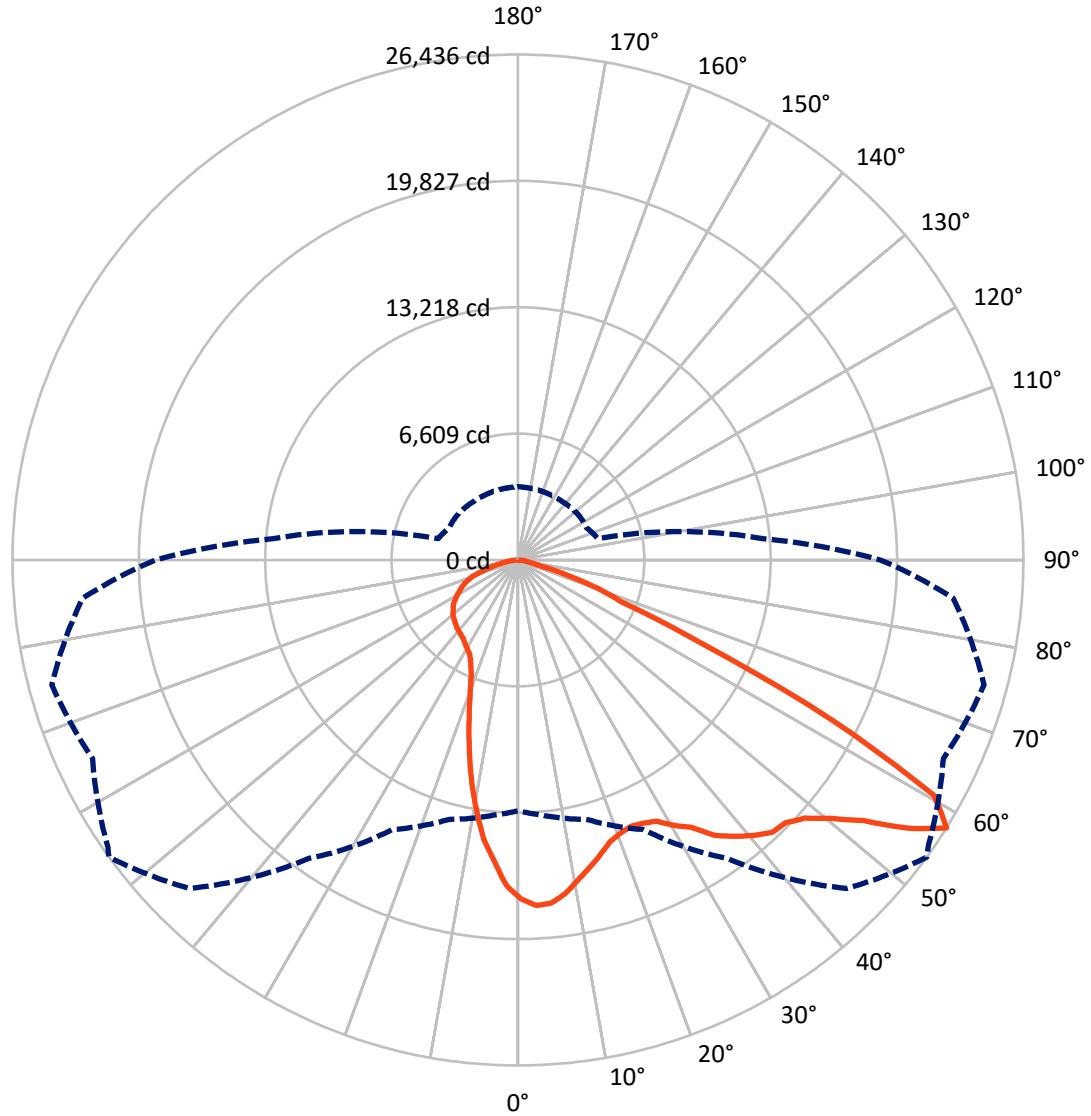
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12611.1	0.0	12611.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	32972.9	0.0	32972.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	45584.0	0.0	45584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1528.0	3.4
10°-20°	3537.9	7.8
20°-30°	4970.8	10.9
30°-40°	6949.2	15.2
40°-50°	9407.9	20.6
50°-60°	11459.2	25.1
60°-70°	5968.4	13.1
70°-80°	1529.3	3.4
80°-90°	233.3	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°	45584.0	100.0
0°-180°	45584.0	100.0

Coefficient of Utilization

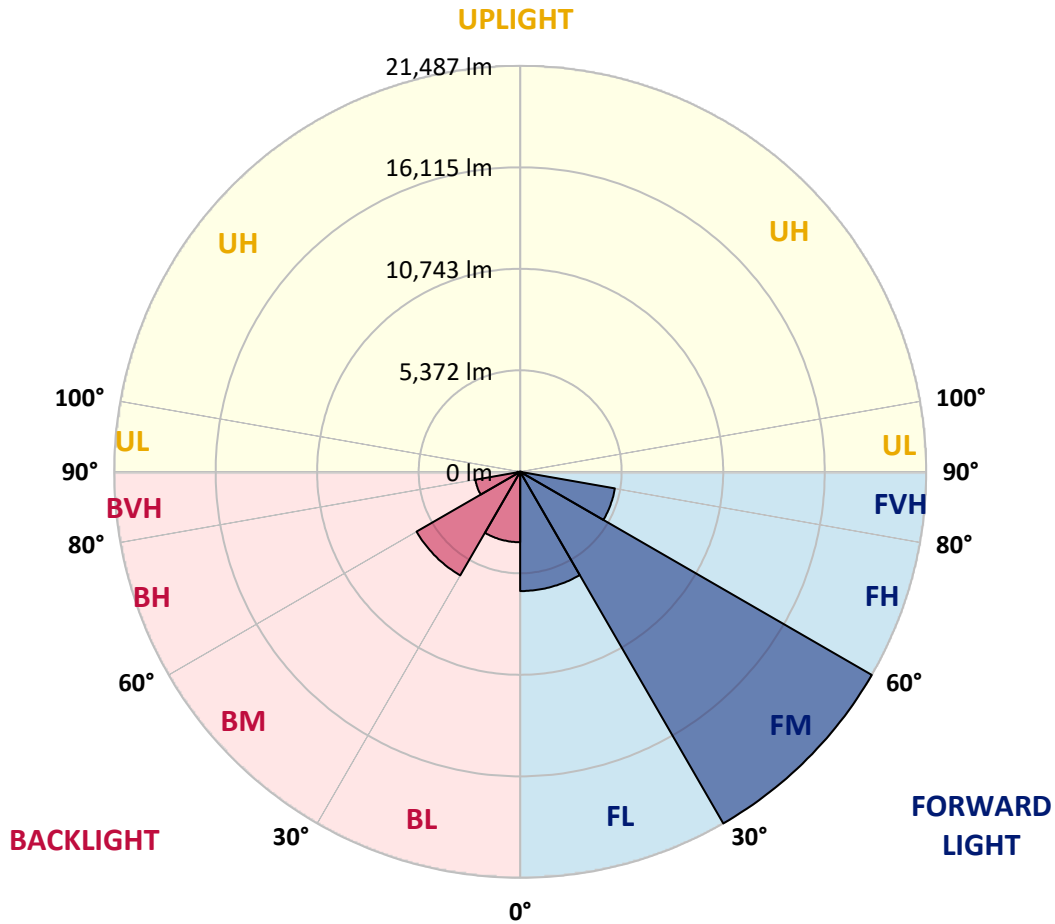


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6309.4	13.8			
FM (30°-60°)	21486.9	47.1			
FH (60°-80°)	5088.5	11.2			G3/7500
FVH (80°-90°)	88.2	0.2			G1/100
BL (0°-30°)	3727.2	8.2	B4/5000		
BM (30°-60°)	6329.4	13.9	B4/8500		
BH (60°-80°)	2409.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	145.1	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°	54°	55°	65°	75°	85°
0°	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0
2.5°	18221.9	18151.6	18163.3	18257.0	18139.8	18093.0	18093.0	17864.5	17882.0	17723.8	17682.8
5°	17800.0	17636.0	17747.3	17887.9	17911.3	17958.2	18034.4	17975.8	17811.7	17641.8	17366.4
7.5°	16698.5	16845.0	16886.0	16985.6	17196.5	17389.9	17630.1	17466.0	17460.2	17290.3	17126.2
10°	15731.7	15643.9	15866.5	16013.0	16364.5	16686.8	17055.9	17038.3	17126.2	16932.9	16651.6
12.5°	14770.8	14700.5	14806.0	15140.0	15632.1	16100.9	16540.3	16376.2	16845.0	16809.8	16206.3
15°	13751.4	13804.1	13956.4	14267.0	14911.5	15473.9	16030.6	16036.4	16452.4	16593.0	15784.5
17.5°	13036.5	12978.0	13171.3	13634.2	14208.4	14882.2	15514.9	15643.9	16282.5	16364.5	15655.6
20°	12503.4	12585.4	12837.3	13071.7	13733.8	14548.2	15263.0	15309.9	16247.3	16470.0	15450.5
22.5°	12374.5	12327.6	12409.6	12790.5	13335.4	14220.1	15128.2	15304.0	16241.5	16434.8	15063.8
25°	12239.7	12392.0	12386.2	12767.0	13165.4	13956.4	15239.6	15432.9	16552.0	16616.5	15116.5
27.5°	12544.4	12526.8	12690.9	12720.1	13212.3	14026.7	15473.9	15620.4	17067.6	17014.9	15157.5
30°	12849.1	12761.2	12860.8	13206.5	13435.0	14431.0	16118.4	16106.7	17735.6	17700.4	15286.4
32.5°	13224.0	13183.0	13247.5	13552.1	13938.8	14970.1	16663.3	17009.0	18415.2	18637.9	15731.7
35°	13294.3	13464.3	13616.6	14026.7	14577.5	15843.1	17688.7	17975.8	19200.3	19897.6	16581.3
37.5°	13739.6	13804.1	14161.5	14888.0	15391.9	17009.0	18339.0	18520.7	19915.1	20706.1	17477.8
40°	14214.2	14290.4	14829.4	15591.1	16282.5	17770.7	18948.4	19007.0	20143.7	21327.2	18063.7
42.5°	14858.7	14929.0	15462.2	16417.3	17343.0	18421.1	19487.4	19551.9	20126.1	22042.0	18995.3
45°	15526.7	15696.6	16323.5	17407.4	18239.4	19182.8	19610.5	19874.1	20290.1	22680.7	19751.1
47.5°	16464.1	16622.3	17137.9	18198.4	19171.0	19850.7	20178.8	20436.6	20682.7	23237.3	20237.4
50°	17460.2	17489.5	18116.4	19077.3	19792.1	20606.5	21239.3	21327.2	21198.3	23881.8	21063.5
52.5°	18192.6	18286.3	18772.6	19710.1	20776.4	21778.3	22645.5	22739.2	22487.3	24122.0	21344.8
55°	16979.7	16927.0	17718.0	18966.0	21438.5	23524.4	24784.1	24854.4	23424.8	24866.1	22264.7
57.5°	13124.4	13376.4	14050.2	15556.0	19048.0	24297.8	26436.3	26184.4	24549.7	25241.1	22850.6
60°	9538.6	9480.1	9931.2	10939.0	14354.8	20940.5	24995.0	25252.8	23629.8	22751.0	18842.9
62.5°	7769.2	7687.2	7722.3	7757.5	9263.3	13897.8	18503.1	18497.2	18198.4	16352.8	12708.4
65°	6210.7	6404.0	6421.6	6685.3	6878.6	8302.4	10722.2	11296.4	9837.5	8068.0	5853.3
67.5°	4681.4	4611.1	4845.5	5783.0	6146.2	5993.9	5853.3	5917.7	4206.8	3035.0	2859.3
70°	2759.6	2730.3	3011.6	4031.1	5062.3	4763.5	4411.9	4417.8	2888.5	2121.0	2361.2
72.5°	1511.7	1505.8	1564.4	2044.8	2876.8	2988.2	2648.3	2730.3	1722.6	1716.7	1845.6
75°	843.7	826.1	808.6	902.3	1037.1	1095.7	1119.1	1130.8	1183.5	1324.2	1376.9
77.5°	310.5	298.8	298.8	345.7	439.4	550.8	697.2	709.0	837.9	960.9	1013.6
80°	105.5	117.2	158.2	216.8	293.0	392.6	474.6	486.3	591.8	673.8	691.4
82.5°	64.5	70.3	105.5	152.3	210.9	275.4	351.5	357.4	439.4	492.2	515.6
85°	29.3	35.2	58.6	93.7	134.8	181.6	187.5	187.5	181.6	187.5	175.8
87.5°	0.0	0.0	11.7	11.7	11.7	17.6	23.4	17.6	29.3	35.2	35.2
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°	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0	17718.0
2.5°	17559.8	17495.3	17296.1	17120.3	17067.6	16833.3	16487.6	16528.6	16276.6	16393.8	16270.8
5°	17319.6	17102.8	16593.0	16376.2	15807.9	15550.1	15374.3	14934.9	14729.8	14688.8	14513.0
7.5°	16704.4	16569.6	15930.9	15345.0	14741.5	14225.9	13563.9	13112.7	12790.5	12702.6	12444.8
10°	16218.0	15919.2	15034.5	14143.9	13282.6	12386.2	11524.9	10851.1	10523.0	10142.1	10013.2
12.5°	15737.6	15286.4	14091.2	12948.7	11835.4	10704.6	9661.7	8841.4	8126.6	7956.7	7898.1
15°	15438.8	14653.7	13247.5	11870.6	10288.6	8812.1	7769.2	7230.2	6790.7	6609.1	6738.0
17.5°	15046.2	14132.2	12438.9	10605.0	8864.8	7505.5	6632.5	6298.6	6140.4	6157.9	6105.2
20°	14554.1	13640.0	11378.4	9456.6	7593.4	6509.5	6011.5	5888.4	5911.9	5952.9	5935.3
22.5°	14202.5	13042.4	10610.9	8284.8	6562.2	5958.7	5753.7	5665.8	5741.9	5777.1	5747.8
25°	13933.0	12532.7	9679.3	7247.7	5964.6	5648.2	5554.4	5548.6	5665.8	5712.6	5683.3
27.5°	13686.9	12058.1	8753.5	6456.8	5566.2	5408.0	5378.7	5449.0	5525.2	5572.0	5613.0
30°	13540.4	11694.8	7886.4	5794.7	5367.0	5290.8	5238.1	5302.5	5343.5	5390.4	5367.0
32.5°	13681.0	11437.0	7048.5	5419.7	5202.9	5126.7	5197.0	5156.0	5226.3	5267.3	5202.9
35°	14120.5	11208.5	6450.9	5220.5	5015.4	5044.7	5056.4	5038.8	5068.1	5033.0	5109.2
37.5°	14554.1	11126.5	5900.1	5050.6	4927.5	4927.5	4915.8	4880.6	4939.2	4927.5	4962.7
40°	15104.8	11179.2	5431.4	4868.9	4845.5	4833.8	4786.9	4781.0	4757.6	4763.5	4775.2
42.5°	15585.3	11296.4	5161.9	4751.7	4769.3	4792.8	4704.9	4634.6	4663.9	4605.3	4605.3
45°	16095.0	11401.8	4921.7	4669.7	4652.1	4646.3	4576.0	4535.0	4511.5	4517.4	4570.1
47.5°	16897.7	11554.2	4740.0	4558.4	4570.1	4482.2	4464.6	4411.9	4435.4	4470.5	4476.4
50°	17466.0	11876.4	4599.4	4429.5	4470.5	4411.9	4306.5	4283.0	4283.0	4341.6	4329.9
52.5°	17864.5	12327.6	4464.6	4288.9	4306.5	4259.6	4224.4	4171.7	4136.5	4218.6	4259.6
55°	19083.2	13077.6	4429.5	4171.7	4165.8	4119.0	4054.5	4001.8	3984.2	3995.9	4077.9
57.5°	18966.0	12843.2	4318.2	3966.6	3954.9	3890.5	3826.0	3808.4	3802.6	3814.3	3837.7
60°	15397.8	9485.9	3855.3	3732.3	3714.7	3703.0	3638.5	3568.2	3533.0	3568.2	3538.9
62.5°	10189.0	6351.3	3398.3	3451.0	3462.7	3433.4	3328.0	3257.7	3269.4	3310.4	3246.0
65°	5003.7	3732.3	3081.9	3222.5	3234.2	3152.2	3052.6	2970.6	2929.6	2964.7	2935.4
67.5°	2859.3	2853.4	2824.1	2970.6	2964.7	2882.7	2724.5	2654.2	2583.9	2595.6	2578.0
70°	2425.7	2472.5	2531.1	2619.0	2613.2	2519.4	2331.9	2279.2	2179.6	2167.9	2138.6
72.5°	1910.1	1992.1	2121.0	2185.5	2132.7	2015.5	1892.5	1804.6	1716.7	1664.0	1681.6
75°	1417.9	1535.1	1605.4	1646.4	1564.4	1499.9	1400.3	1294.9	1189.4	1142.5	1125.0
77.5°	1031.2	1066.4	1130.8	1160.1	1107.4	1042.9	984.3	878.9	779.3	714.8	697.2
80°	720.7	744.1	791.0	791.0	791.0	761.7	685.5	580.1	515.6	457.0	445.3
82.5°	503.9	527.3	574.2	550.8	544.9	509.7	462.9	380.8	310.5	269.5	257.8
85°	175.8	193.4	234.4	281.2	298.8	293.0	263.7	210.9	164.1	134.8	123.0
87.5°	41.0	41.0	46.9	41.0	41.0	46.9	41.0	41.0	41.0	29.3	23.4
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)