

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: P652554

Luminaire Tested: **GALN-SA8B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652554
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-SA8B-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 32691.4 lumens
Efficiency: N/A
Efficacy: 100.6 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

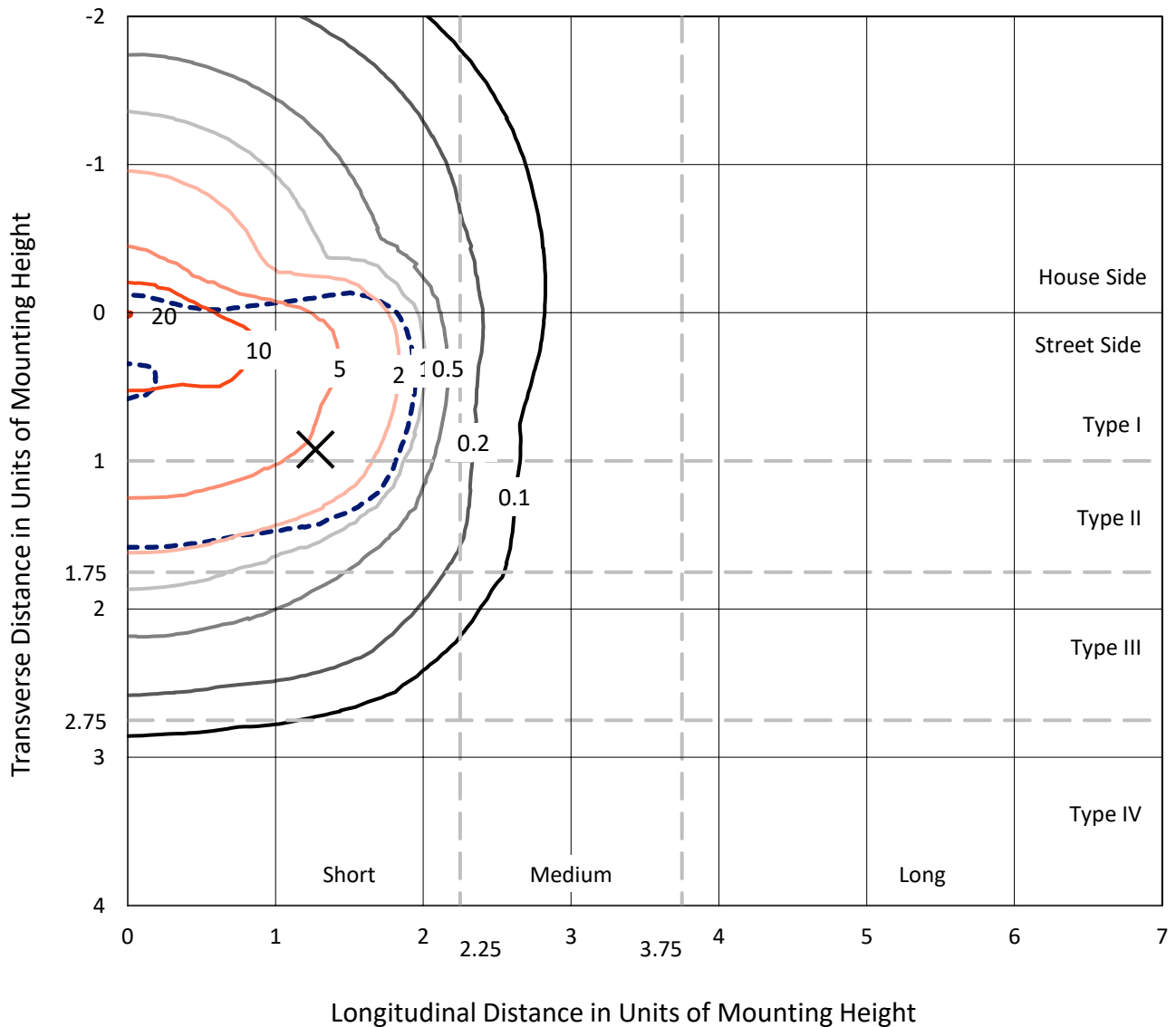
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

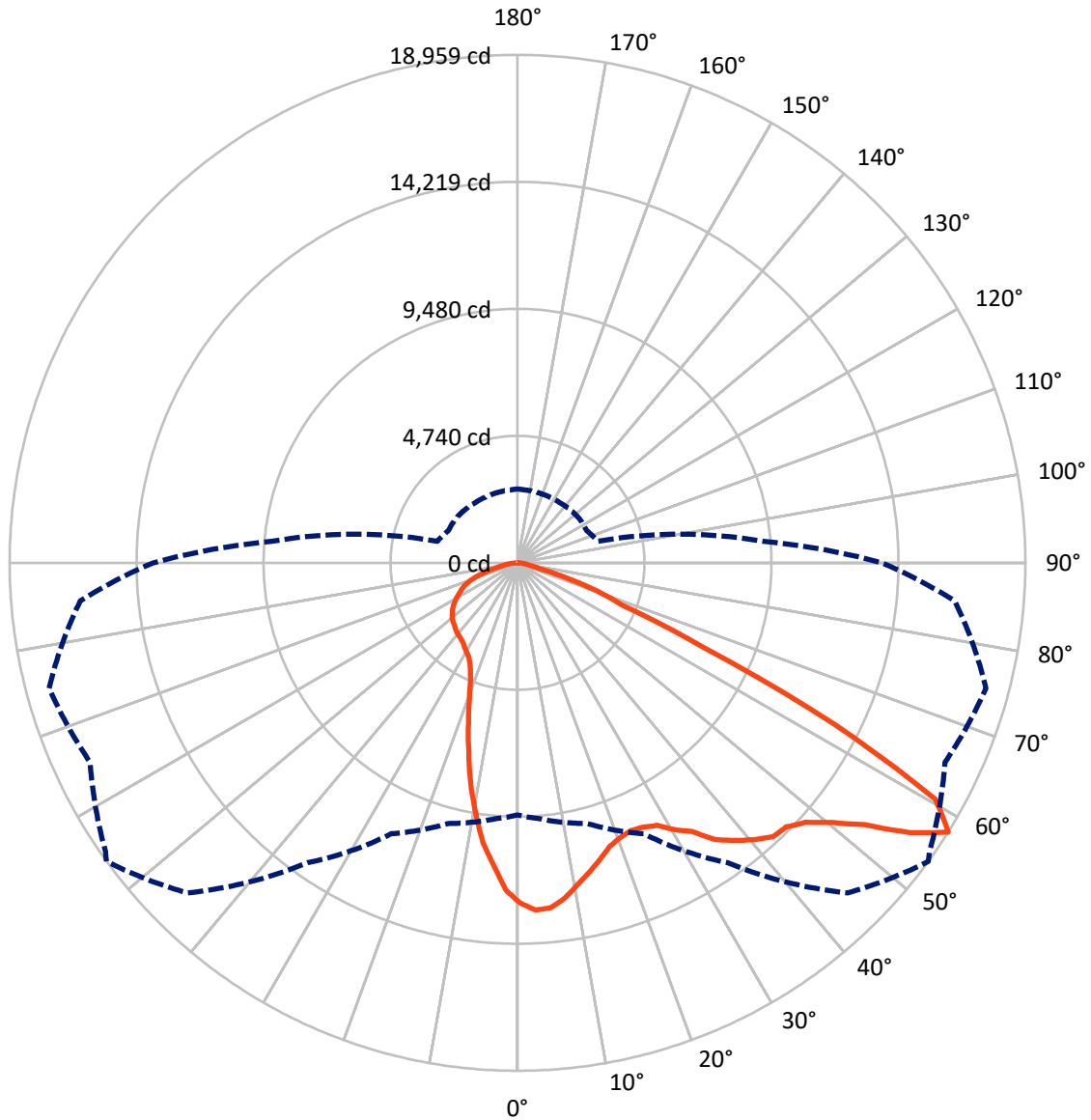
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	9044.2	0.0	9044.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23647.1	0.0	23647.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	32691.4	0.0	32691.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1095.8	3.4
10°-20°	2537.3	7.8
20°-30°	3564.9	10.9
30°-40°	4983.7	15.2
40°-50°	6747.0	20.6
50°-60°	8218.2	25.1
60°-70°	4280.4	13.1
70°-80°	1096.8	3.4
80°-90°	167.3	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°	32691.4	100.0
0°-180°	32691.4	100.0

Coefficient of Utilization

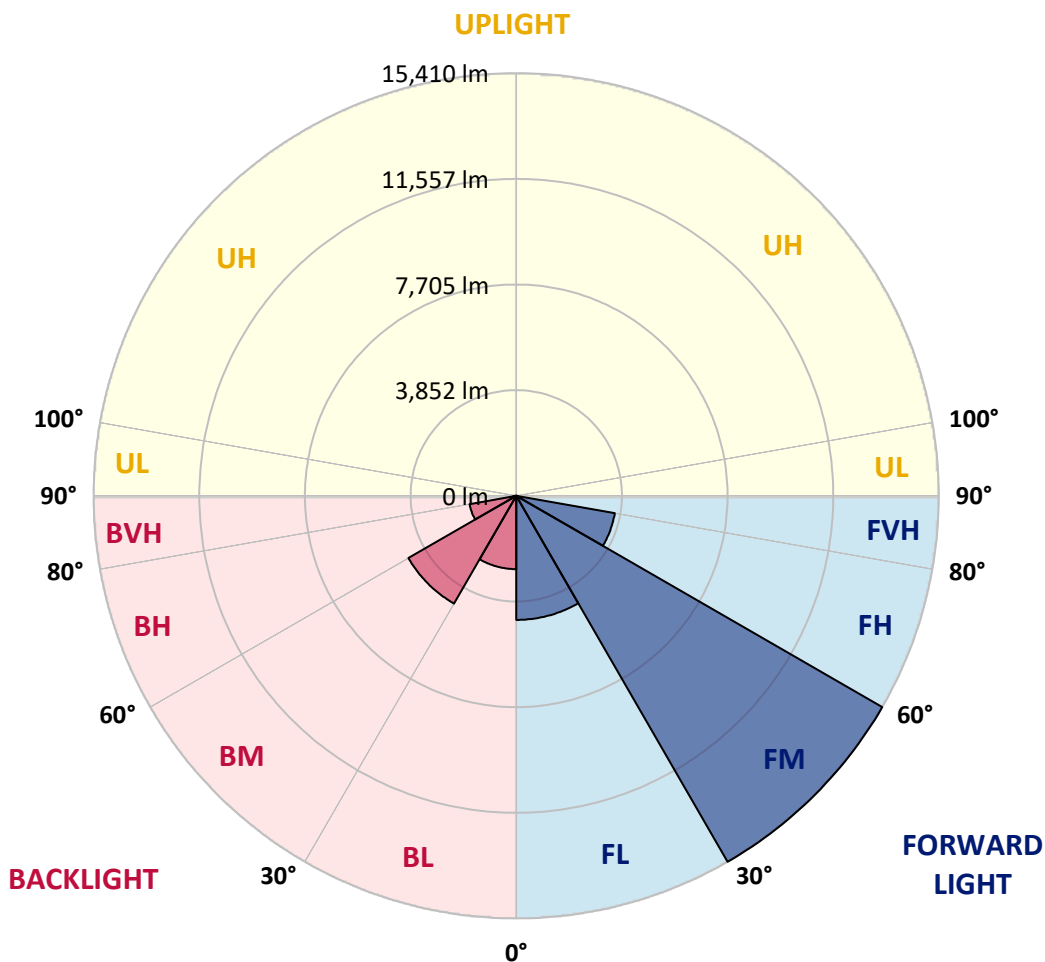


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4524.9	13.8			
FM (30°-60°)	15409.7	47.1			
FH (60°-80°)	3649.3	11.2			G2/5000
FVH (80°-90°)	63.2	0.2			G1/100
BL (0°-30°)	2673.0	8.2	B4/5000		
BM (30°-60°)	4539.2	13.9	B3/5000		
BH (60°-80°)	1727.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.1	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°	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8
2.5°	13068.1	13017.7	13026.1	13093.4	13009.3	12975.7	12975.7	12811.8	12824.4	12711.0	12681.5
5°	12765.6	12648.0	12727.8	12828.6	12845.4	12879.1	12933.7	12891.6	12773.9	12652.1	12454.6
7.5°	11975.6	12080.6	12110.1	12181.5	12332.8	12471.4	12643.8	12526.1	12521.9	12400.0	12282.4
10°	11282.3	11219.3	11378.9	11483.9	11736.1	11967.2	12231.9	12219.3	12282.4	12143.7	11942.0
12.5°	10593.2	10542.8	10618.4	10857.9	11210.9	11547.0	11862.1	11744.5	12080.6	12055.5	11622.6
15°	9862.0	9899.8	10009.1	10231.8	10694.0	11097.4	11496.6	11500.8	11799.1	11900.0	11320.1
17.5°	9349.4	9307.3	9446.0	9778.0	10189.8	10673.0	11126.9	11219.3	11677.3	11736.1	11227.7
20°	8967.0	9025.9	9206.5	9374.6	9849.5	10433.5	10946.1	10979.8	11652.1	11811.8	11080.6
22.5°	8874.6	8840.9	8899.8	9172.9	9563.7	10198.2	10849.5	10975.6	11647.8	11786.5	10803.2
25°	8777.9	8887.2	8883.0	9156.1	9441.8	10009.1	10929.3	11068.0	11870.5	11916.8	10841.1
27.5°	8996.4	8983.8	9101.5	9122.5	9475.5	10059.5	11097.4	11202.5	12240.3	12202.5	10870.5
30°	9214.9	9151.9	9223.3	9471.3	9635.1	10349.4	11559.6	11551.2	12719.4	12694.1	10962.9
32.5°	9483.9	9454.4	9500.7	9719.2	9996.5	10736.0	11950.4	12198.3	13206.8	13366.4	11282.3
35°	9534.2	9656.1	9765.4	10059.5	10454.5	11362.2	12685.7	12891.6	13769.9	14269.9	11891.6
37.5°	9853.6	9899.8	10156.2	10677.2	11038.5	12198.3	13152.1	13282.4	14282.5	14849.8	12534.4
40°	10194.0	10248.6	10635.2	11181.4	11677.3	12744.6	13589.1	13631.2	14446.4	15295.2	12954.7
42.5°	10656.2	10706.6	11089.0	11773.9	12437.8	13211.0	13975.7	14022.0	14433.7	15807.8	13622.8
45°	11135.2	11257.0	11706.7	12484.1	13080.7	13757.2	14064.0	14253.1	14551.4	16265.8	14164.9
47.5°	11807.6	11921.0	12290.8	13051.3	13748.8	14236.3	14471.6	14656.4	14833.0	16665.0	14513.6
50°	12521.9	12542.8	12992.5	13681.6	14194.2	14778.3	15232.1	15295.2	15202.8	17127.2	15106.0
52.5°	13047.1	13114.4	13463.1	14135.4	14900.2	15618.7	16240.6	16307.8	16127.2	17299.5	15307.8
55°	12177.3	12139.5	12706.8	13601.7	15375.0	16870.9	17774.4	17824.7	16799.5	17833.2	15967.5
57.5°	9412.4	9593.1	10076.4	11156.2	13660.6	17425.6	18959.3	18778.6	17606.3	18102.1	16387.6
60°	6840.8	6798.8	7122.3	7845.1	10294.8	15017.8	17925.6	18110.5	16946.6	16316.2	13513.5
62.5°	5571.8	5513.0	5538.2	5563.4	6643.3	9967.1	13269.8	13265.6	13051.3	11727.7	9114.1
65°	4454.1	4592.8	4605.3	4794.5	4933.1	5954.2	7689.6	8101.4	7055.1	5786.1	4197.8
67.5°	3357.4	3307.0	3475.0	4147.3	4407.8	4298.6	4197.8	4244.0	3017.0	2176.6	2050.5
70°	1979.1	1958.1	2159.8	2890.9	3630.5	3416.2	3164.1	3168.3	2071.6	1521.1	1693.4
72.5°	1084.1	1079.9	1121.9	1466.5	2063.1	2143.0	1899.3	1958.1	1235.3	1231.1	1323.6
75°	605.1	592.5	579.9	647.1	743.8	785.7	802.6	811.0	848.8	949.7	987.5
77.5°	222.7	214.3	214.3	247.9	315.1	395.0	500.1	508.5	600.9	689.1	727.0
80°	75.6	84.0	113.5	155.5	210.1	281.6	340.4	348.8	424.4	483.2	495.9
82.5°	46.3	50.5	75.6	109.2	151.3	197.5	252.1	256.3	315.1	353.0	369.8
85°	21.0	25.2	42.0	67.2	96.6	130.3	134.5	134.5	130.3	134.5	126.1
87.5°	0.0	0.0	8.4	8.4	8.4	12.6	16.8	12.6	21.0	25.2	25.2
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°	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8	12706.8
2.5°	12593.3	12547.0	12404.2	12278.2	12240.3	12072.2	11824.4	11853.7	11673.1	11757.1	11668.9
5°	12421.0	12265.6	11900.0	11744.5	11336.9	11152.0	11025.9	10710.8	10563.7	10534.4	10408.3
7.5°	11979.8	11883.2	11425.2	11005.0	10572.1	10202.3	9727.6	9404.0	9172.9	9109.9	8924.9
10°	11631.0	11416.7	10782.3	10143.6	9525.8	8883.0	8265.3	7782.0	7546.7	7273.6	7181.1
12.5°	11286.5	10962.9	10105.7	9286.3	8488.0	7677.0	6929.1	6340.8	5828.1	5706.3	5664.2
15°	11072.2	10509.1	9500.7	8513.2	7378.7	6319.8	5571.8	5185.3	4870.1	4739.8	4832.3
17.5°	10790.6	10135.1	8920.7	7605.6	6357.5	5382.7	4756.6	4517.1	4403.6	4416.3	4378.4
20°	10437.7	9782.2	8160.2	6782.0	5445.7	4668.4	4311.2	4223.0	4239.8	4269.2	4256.6
22.5°	10185.6	9353.6	7609.8	5941.6	4706.2	4273.4	4126.4	4063.3	4118.0	4143.1	4122.2
25°	9992.3	8988.0	6941.6	5197.8	4277.6	4050.7	3983.5	3979.3	4063.3	4096.9	4075.9
27.5°	9815.8	8647.7	6277.7	4630.5	3991.9	3878.4	3857.4	3907.8	3962.5	3996.1	4025.4
30°	9710.8	8387.1	5655.8	4155.7	3849.0	3794.3	3756.6	3802.7	3832.2	3865.8	3849.0
32.5°	9811.6	8202.3	5055.0	3886.8	3731.3	3676.7	3727.1	3697.7	3748.2	3777.6	3731.3
35°	10126.7	8038.4	4626.3	3744.0	3596.9	3617.9	3626.3	3613.7	3634.7	3609.5	3664.2
37.5°	10437.7	7979.6	4231.4	3622.1	3533.9	3533.9	3525.5	3500.2	3542.3	3533.9	3559.0
40°	10832.7	8017.3	3895.3	3491.8	3475.0	3466.6	3433.0	3428.8	3412.0	3416.2	3424.6
42.5°	11177.2	8101.4	3701.9	3407.8	3420.4	3437.3	3374.2	3323.7	3344.7	3302.8	3302.8
45°	11542.8	8177.0	3529.7	3348.9	3336.3	3332.1	3281.8	3252.3	3235.5	3239.7	3277.5
47.5°	12118.5	8286.3	3399.4	3269.1	3277.5	3214.5	3201.9	3164.1	3180.9	3206.1	3210.3
50°	12526.1	8517.4	3298.6	3176.7	3206.1	3164.1	3088.5	3071.7	3071.7	3113.6	3105.2
52.5°	12811.8	8840.9	3201.9	3075.9	3088.5	3054.8	3029.6	2991.8	2966.6	3025.4	3054.8
55°	13685.8	9378.8	3176.7	2991.8	2987.6	2954.0	2907.8	2869.9	2857.3	2865.7	2924.6
57.5°	13601.7	9210.7	3096.8	2844.8	2836.4	2790.1	2743.8	2731.3	2727.1	2735.5	2752.3
60°	11042.8	6803.0	2764.9	2676.7	2664.0	2655.6	2609.5	2559.0	2533.8	2559.0	2538.0
62.5°	7307.2	4554.9	2437.1	2475.0	2483.4	2462.4	2386.8	2336.3	2344.7	2374.1	2327.9
65°	3588.5	2676.7	2210.2	2311.1	2319.5	2260.7	2189.2	2130.4	2101.0	2126.2	2105.2
67.5°	2050.5	2046.3	2025.4	2130.4	2126.2	2067.3	1953.9	1903.5	1853.1	1861.5	1848.9
70°	1739.6	1773.2	1815.2	1878.3	1874.1	1806.9	1672.4	1634.6	1563.2	1554.8	1533.7
72.5°	1369.8	1428.7	1521.1	1567.4	1529.5	1445.5	1357.2	1294.2	1231.1	1193.4	1206.0
75°	1016.9	1101.0	1151.3	1180.8	1121.9	1075.7	1004.2	928.6	853.0	819.4	806.8
77.5°	739.6	764.7	811.0	832.0	794.2	748.0	705.9	630.3	558.8	512.7	500.1
80°	516.9	533.6	567.3	567.3	567.3	546.2	491.6	416.0	369.8	327.7	319.3
82.5°	361.4	378.2	411.8	395.0	390.8	365.6	331.9	273.2	222.7	193.3	184.9
85°	126.1	138.7	168.1	201.7	214.3	210.1	189.1	151.3	117.7	96.6	88.2
87.5°	29.4	29.4	33.6	29.4	29.4	33.6	29.4	29.4	29.4	21.0	16.8
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)