

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: P647135

Luminaire Tested: **GALN-SA8C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38803.9 lumens
Efficiency: N/A
Efficacy: 90.5 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

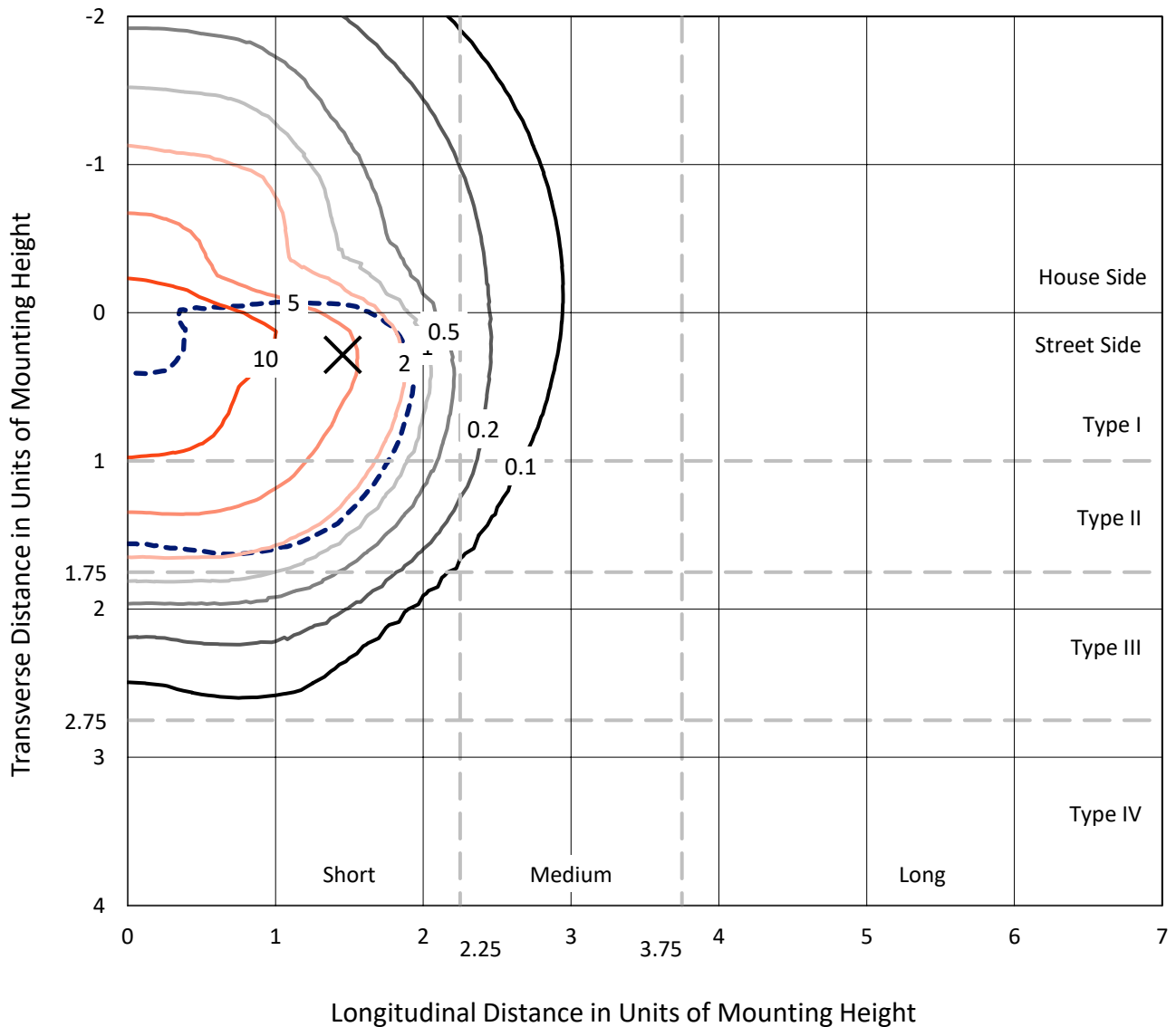
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

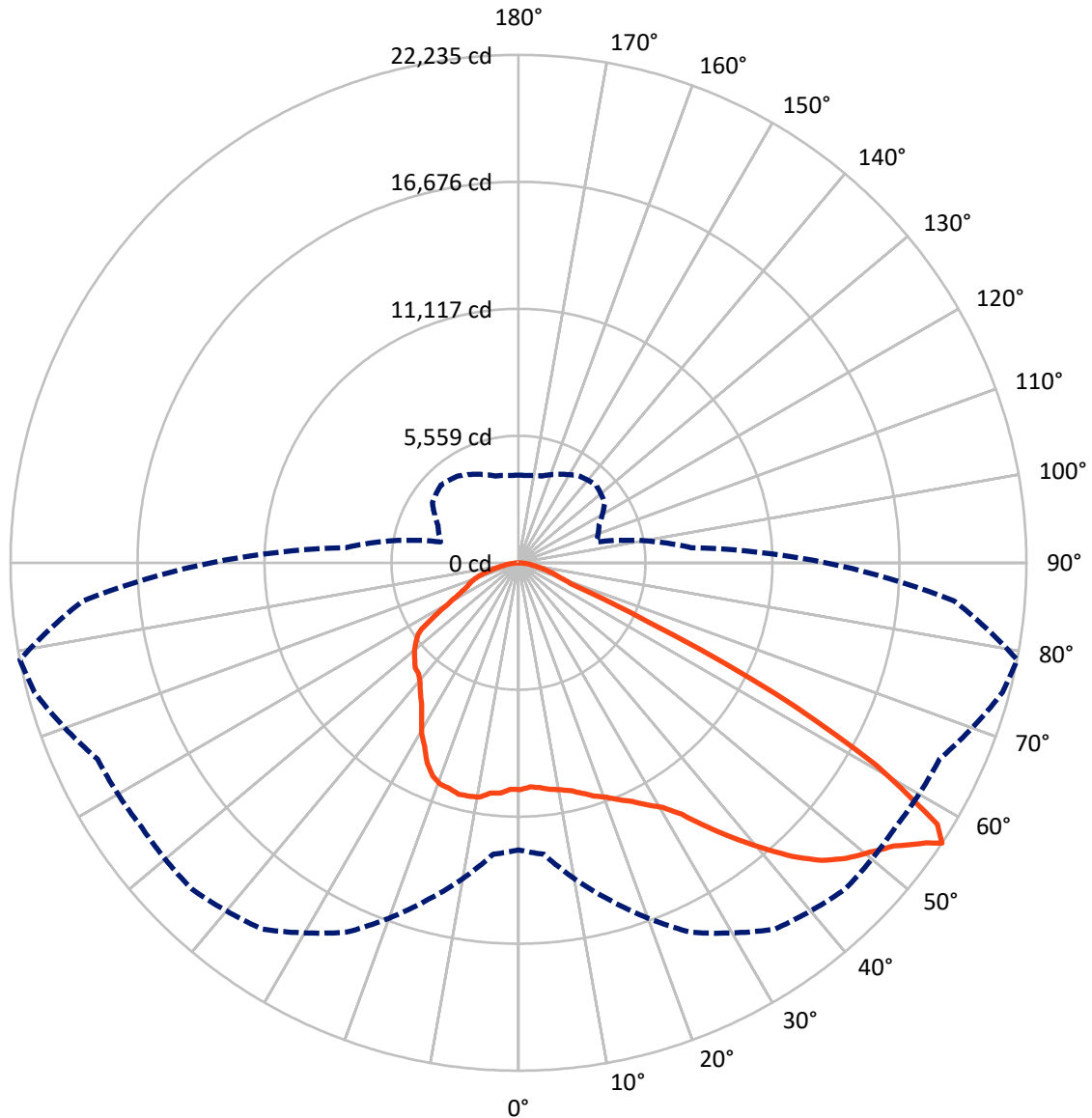
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11459.6	0.0	11459.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	27344.3	0.0	27344.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	38803.9	0.0	38803.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.7	2.3
10°-20°	2470.4	6.4
20°-30°	4226.4	10.9
30°-40°	6477.4	16.7
40°-50°	8754.2	22.6
50°-60°	10054.5	25.9
60°-70°	4583.1	11.8
70°-80°	1130.0	2.9
80°-90°	205.4	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°	38803.9	100.0
0°-180°	38803.9	100.0

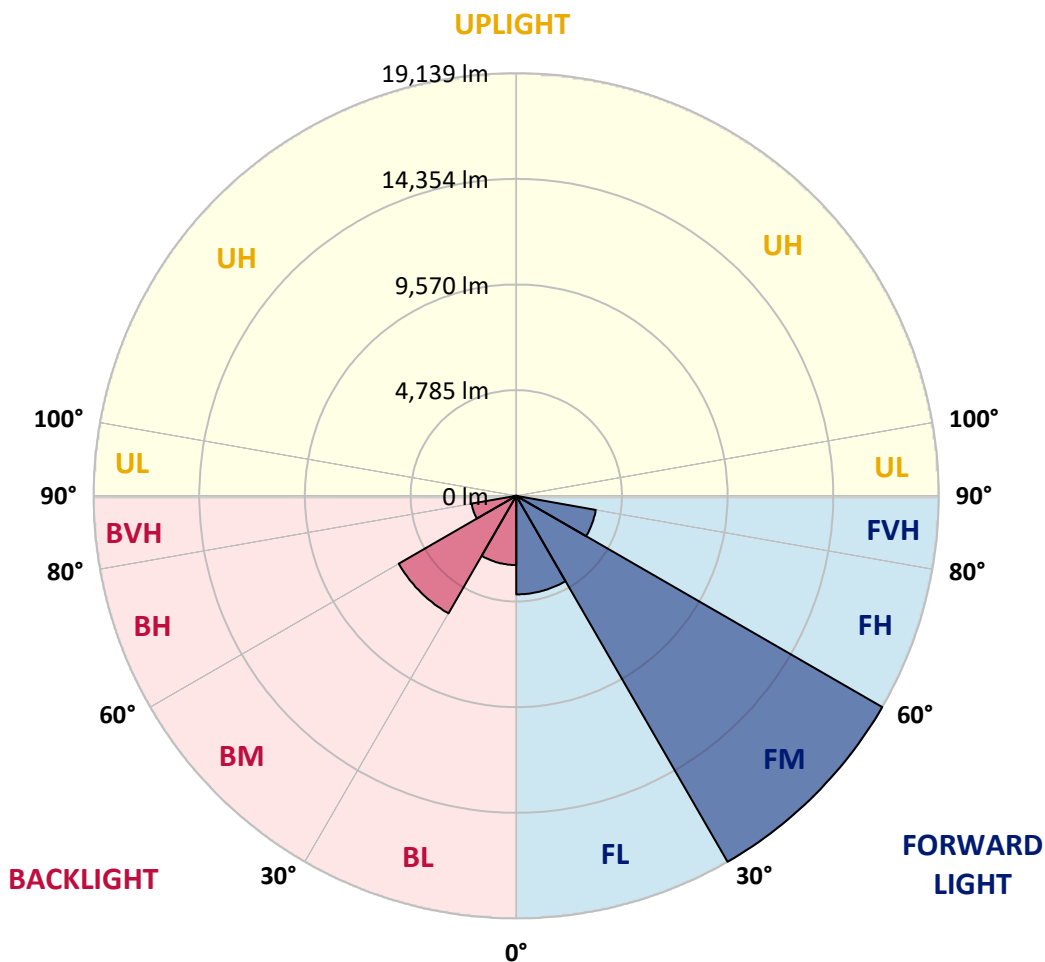


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4464.7	11.5			
FM (30°-60°)	19139.2	49.3			
FH (60°-80°)	3658.3	9.4			G2/5000
FVH (80°-90°)	82.0	0.2			G1/100
BL (0°-30°)	3134.7	8.1	B4/5000		
BM (30°-60°)	6146.8	15.8	B4/8500		
BH (60°-80°)	2054.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	123.4	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°	79°	85°
0°	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4
2.5°	9445.0	9420.8	9478.8	9522.4	9575.5	9643.2	9677.0	9696.4	9865.6	9822.0	9952.6
5°	9242.0	9179.2	9222.6	9256.5	9348.3	9430.5	9522.4	9667.4	9822.0	9889.7	10049.3
7.5°	9063.1	9029.3	9019.7	9043.8	9169.5	9275.8	9435.4	9648.0	9899.4	10010.6	10102.4
10°	8768.3	8720.0	8792.5	8952.0	8985.8	9208.2	9391.9	9696.4	9913.9	10107.2	10377.9
12.5°	8637.8	8589.4	8603.9	8695.8	8932.6	9145.4	9362.9	9706.1	10165.2	10242.6	10605.1
15°	8845.6	8797.3	8811.8	8787.6	9014.8	9126.0	9469.2	9899.4	10339.3	10469.7	10856.5
17.5°	9319.3	9324.2	9261.3	9208.2	9155.0	9391.9	9628.7	10015.4	10406.9	10735.6	11025.7
20°	10223.2	10063.7	9938.1	9638.3	9556.2	9657.7	9957.4	10329.6	10682.5	10953.2	11281.8
22.5°	10919.3	10933.8	10755.0	10261.9	10083.1	10126.5	10382.7	10687.2	11074.0	11267.3	11644.3
25°	11929.6	11828.0	11634.7	11243.2	10842.0	10875.8	11064.3	11339.8	11446.1	11581.5	11992.3
27.5°	12852.8	12881.8	12499.9	12132.5	11634.7	11538.0	11876.4	11924.7	11745.9	12002.1	12142.2
30°	13790.5	13766.3	13515.0	13084.8	12596.6	12615.9	12765.7	12528.9	12282.4	12422.5	12519.2
32.5°	14762.1	14486.5	14476.9	14090.2	13718.0	13539.2	13355.5	13471.4	13089.6	13118.6	13026.8
35°	15540.3	15579.0	15356.6	15081.1	14897.4	14583.2	14080.5	14288.3	14215.8	14182.0	13785.7
37.5°	16105.8	15956.0	16067.2	15975.3	15801.3	15409.8	14887.7	15085.9	15119.7	15284.1	14824.9
40°	16569.8	16507.0	16801.8	16850.2	16729.3	15883.5	14945.7	15535.4	16043.0	16400.7	15854.5
42.5°	16792.2	16927.5	17236.9	17609.1	17338.4	16434.5	15245.4	15878.6	17009.7	17575.3	16830.9
45°	17091.9	16917.9	17377.1	18058.6	18063.5	16898.5	15535.4	16342.7	17763.8	18585.5	17497.9
47.5°	16787.4	16874.4	17348.1	18213.3	18435.7	17386.7	16318.5	17000.0	18595.2	19325.1	18116.7
50°	16105.8	16279.8	17145.0	18044.2	18716.0	17904.0	17217.5	17710.6	19363.7	19919.6	18218.1
52.5°	15395.3	15492.0	16845.4	18174.7	18841.7	18571.0	18421.2	18691.9	20301.5	20591.5	18343.8
55°	13461.8	13921.0	15854.5	18116.7	19455.6	19774.6	19658.6	20055.0	21364.9	21654.9	19030.2
56°	12567.5	12809.3	15260.0	17846.0	19576.4	20214.5	20156.5	20335.3	21930.4	22234.9	19136.5
57.5°	10914.5	10933.8	13012.3	16647.2	19122.0	20345.0	20287.0	20427.1	21819.2	21611.4	18203.7
60°	6830.0	7129.7	8855.3	12804.4	16260.5	18875.5	19204.2	18078.0	18397.0	17957.2	14162.7
62.5°	3538.2	3494.8	4640.4	7487.4	10793.6	13515.0	13819.5	13766.3	13273.3	12630.4	9251.7
65°	1764.3	1774.0	2426.5	3707.4	5529.7	7076.5	7927.2	8019.1	6709.1	6172.6	4388.9
67.5°	1280.9	1329.3	1745.0	2267.0	2605.4	2914.7	3572.1	3504.4	2653.7	2523.2	2339.5
70°	995.7	1039.3	1416.3	1730.4	1570.9	1570.9	1711.1	1769.1	1890.0	1943.2	2006.0
72.5°	725.1	758.9	1082.7	1193.9	1029.6	1106.9	1280.9	1416.3	1542.0	1561.3	1633.8
75°	497.8	526.9	710.6	657.4	618.7	763.7	937.7	1063.4	1155.2	1203.5	1247.1
77.5°	323.8	333.6	406.1	343.2	396.4	493.1	609.0	715.3	807.2	845.9	855.6
80°	145.0	159.5	174.0	217.5	275.5	352.8	435.0	522.0	580.0	594.5	623.6
82.5°	82.1	82.1	106.3	154.6	203.0	256.2	314.2	377.0	444.7	459.2	454.4
85°	43.5	43.5	62.9	91.8	125.7	149.9	145.0	149.9	159.5	183.7	178.8
87.5°	14.5	14.5	19.3	19.3	24.2	29.0	24.2	33.8	43.5	43.5	43.5
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°	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4	9928.4
2.5°	9913.9	9957.4	9899.4	10025.1	10025.1	10000.9	9880.1	9918.7	9947.7	9947.7	9971.9
5°	10102.4	10087.9	10126.5	9976.8	9884.9	9851.1	9652.9	9556.2	9474.0	9469.2	9396.7
7.5°	10208.8	10170.1	10155.6	10044.4	9638.3	9391.9	8966.4	8720.0	8666.8	8478.2	8550.8
10°	10377.9	10450.4	10377.9	9773.7	9208.2	8642.6	8226.9	7845.0	7695.2	7574.4	7501.8
12.5°	10725.9	10692.1	10271.6	9454.6	8661.9	7990.0	7371.4	6970.2	6820.3	6714.0	6704.3
15°	11020.8	10851.6	10208.8	8952.0	7811.2	7095.9	6588.3	6303.2	6235.4	6245.1	6288.6
17.5°	11122.3	11006.3	9880.1	8429.9	7178.0	6337.0	6100.1	6056.6	6119.5	6192.0	6211.3
20°	11281.8	11098.2	9744.7	7719.4	6395.0	5863.3	5848.8	6003.4	6119.5	6225.8	6240.3
22.5°	11615.3	11151.3	9304.9	7047.5	5858.4	5723.1	5863.3	5993.8	6172.6	6259.6	6182.3
25°	11712.0	11035.3	8686.1	6240.3	5520.1	5636.1	5785.9	5964.7	6090.4	6138.8	6172.6
27.5°	11794.2	10856.5	7849.9	5703.8	5413.7	5631.3	5785.9	5935.8	6003.4	6047.0	6085.6
30°	12026.2	10803.3	7124.8	5346.1	5346.1	5534.6	5732.7	5771.4	5863.3	5916.4	5984.1
32.5°	12142.2	10435.9	6380.4	5118.9	5278.4	5582.9	5597.4	5669.9	5674.7	5718.2	5645.7
35°	12446.7	10174.9	5689.3	4954.5	5307.4	5534.6	5607.1	5563.6	5326.7	5210.7	5234.9
37.5°	12669.1	10044.4	5191.4	4935.2	5312.2	5587.7	5626.4	5297.7	5051.2	4857.9	4906.2
40°	13268.5	9720.6	4814.4	4901.3	5355.7	5645.7	5539.4	5181.7	4737.0	4538.8	4505.0
42.5°	13727.6	9488.6	4577.5	4862.7	5389.5	5727.9	5495.9	4949.7	4495.4	4311.7	4360.0
45°	14259.4	9435.4	4451.8	4872.4	5447.6	5771.4	5442.7	4770.8	4287.5	4215.0	4200.5
47.5°	14447.9	9053.5	4316.4	4790.2	5433.1	5756.9	5263.9	4635.5	4210.1	4219.8	4258.5
50°	14133.7	8661.9	4215.0	4621.0	5336.4	5626.4	4983.6	4456.7	4166.7	4287.5	4355.1
52.5°	13732.5	8260.7	4007.2	4393.8	5138.2	5423.4	4853.0	4447.0	4123.1	4084.4	4098.9
55°	13853.3	7932.1	3717.1	4084.4	4819.2	5046.4	4708.0	4355.1	4016.8	3871.8	3920.1
56°	13461.8	7593.7	3528.6	3891.1	4601.7	4804.6	4635.5	4273.0	3929.8	3833.1	3833.1
57.5°	12354.9	6457.8	3282.1	3581.8	4142.5	4384.2	4495.4	4224.7	3833.1	3664.0	3668.7
60°	9111.5	4592.0	2943.7	3156.4	3431.9	3625.3	4142.5	4089.3	3591.5	3475.4	3431.9
62.5°	5616.8	3354.6	2702.1	2784.2	2924.3	3083.9	3615.6	3702.6	3335.3	3209.6	3180.5
65°	3146.7	2566.7	2518.4	2552.2	2619.8	2702.1	3001.7	3195.0	2943.7	2750.4	2740.7
67.5°	2300.8	2296.0	2334.7	2363.6	2392.7	2392.7	2465.2	2542.5	2508.7	2354.0	2339.5
70°	2044.6	2059.1	2088.2	2093.0	2102.7	2068.8	2010.8	1986.6	2025.3	1928.6	1909.3
72.5°	1687.0	1735.3	1769.1	1774.0	1720.8	1677.3	1600.0	1517.8	1488.8	1469.5	1464.6
75°	1295.4	1329.3	1343.8	1338.9	1319.6	1256.8	1164.9	1082.7	1029.6	971.5	1000.6
77.5°	874.9	923.2	947.4	947.4	918.4	821.8	778.2	715.3	662.2	599.4	609.0
80°	613.9	647.7	686.4	681.5	633.2	584.9	522.0	464.0	420.5	372.2	367.4
82.5°	459.2	478.6	497.8	488.2	454.4	406.1	362.5	309.4	261.1	227.1	227.1
85°	164.4	178.8	217.5	227.1	246.5	246.5	207.9	174.0	140.2	116.0	116.0
87.5°	48.3	48.3	53.2	53.2	48.3	53.2	43.5	48.3	53.2	33.8	33.8
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)