

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: P651087

Luminaire Tested: **GALN-SA8C-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41955 lumens  
Efficiency: N/A  
Efficacy: 97.8 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

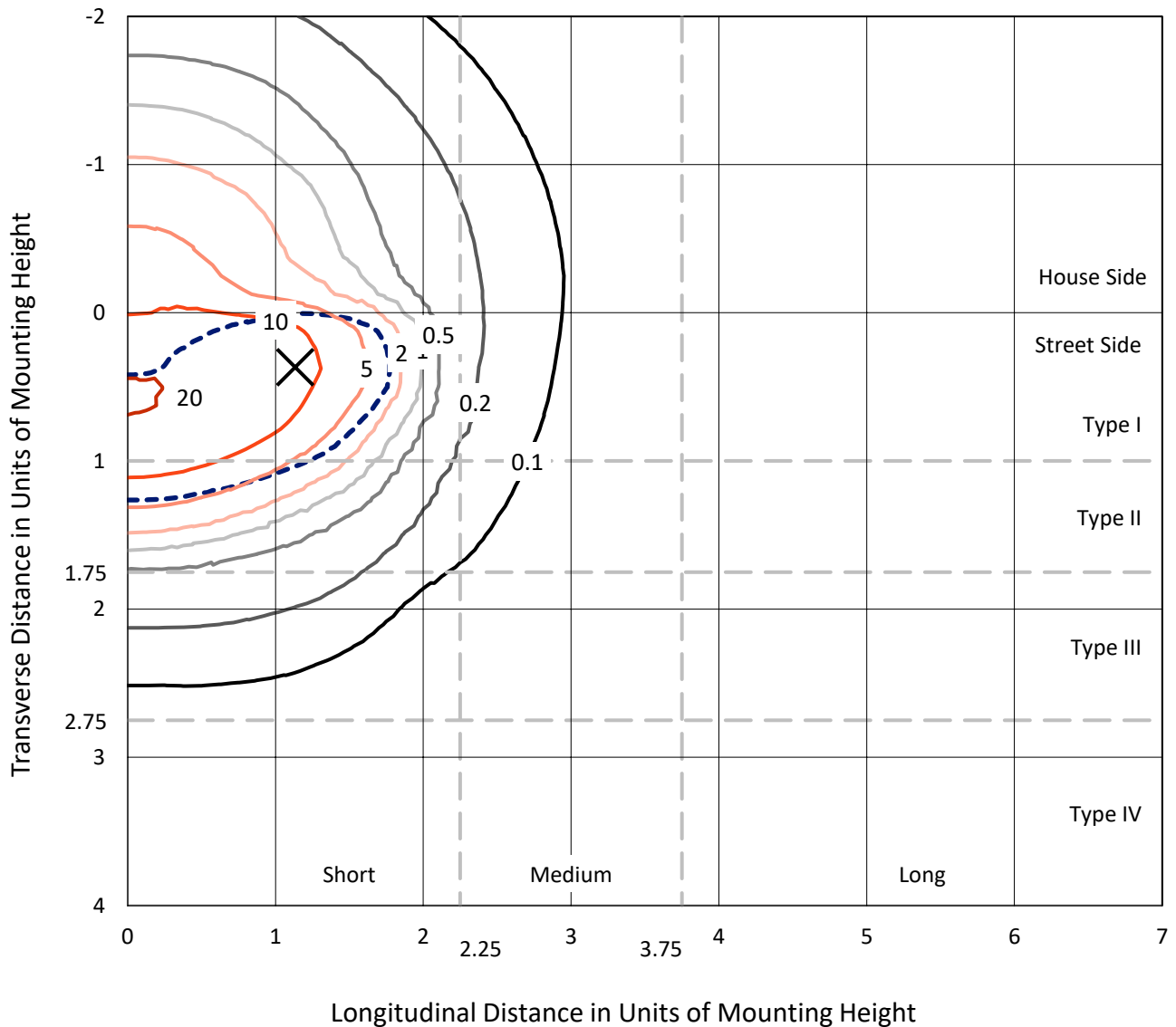
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

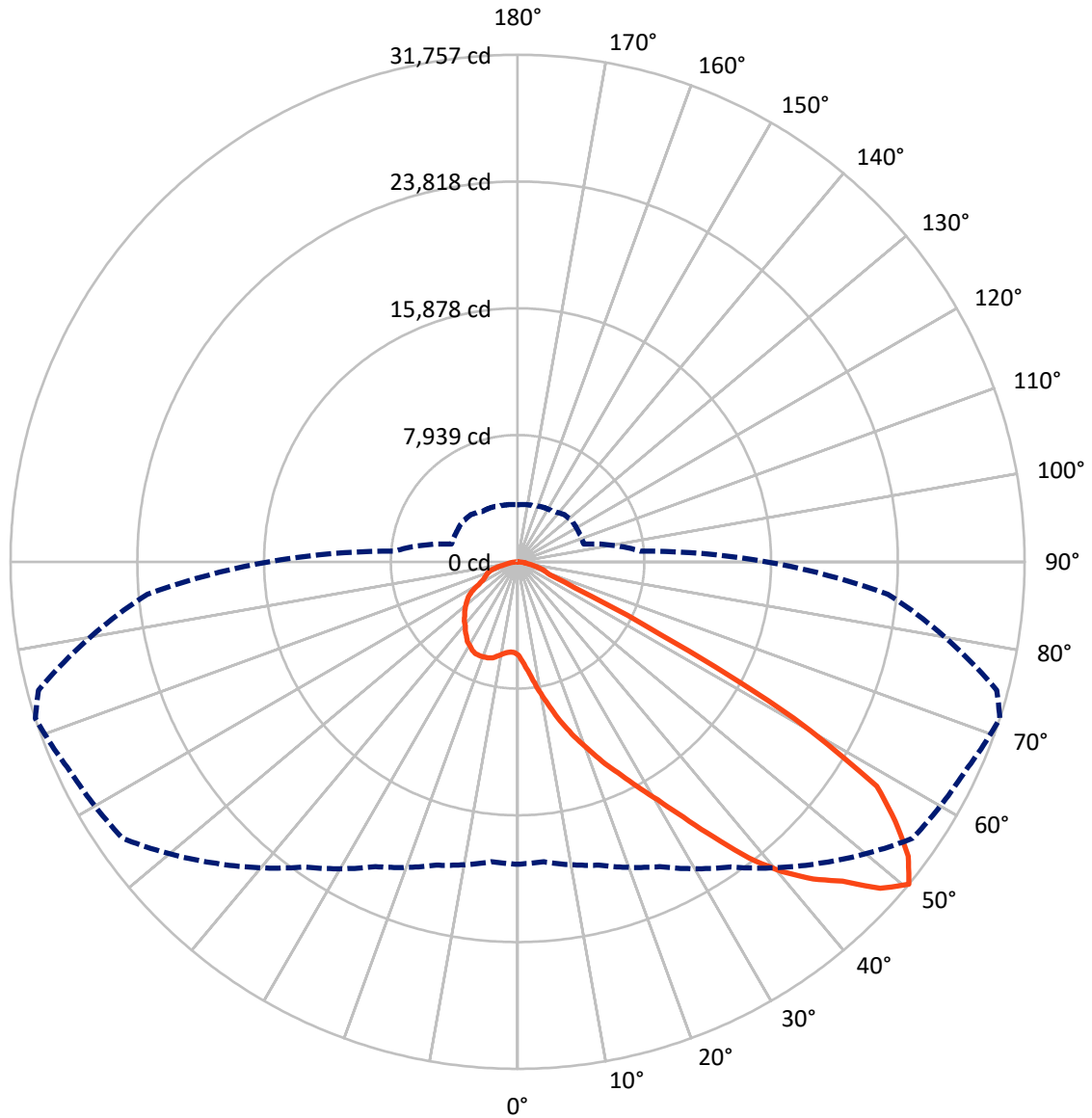
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9612.1	0.0	9612.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	32342.8	0.0	32342.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	41955.0	0.0	41955.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.0	1.6
10°-20°	2568.2	6.1
20°-30°	4979.6	11.9
30°-40°	8249.4	19.7
40°-50°	11542.7	27.5
50°-60°	9737.8	23.2
60°-70°	2968.1	7.1
70°-80°	1041.3	2.5
80°-90°	181.0	0.4
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°	41955.0	100.0
0°-180°	41955.0	100.0

**Coefficient of Utilization**

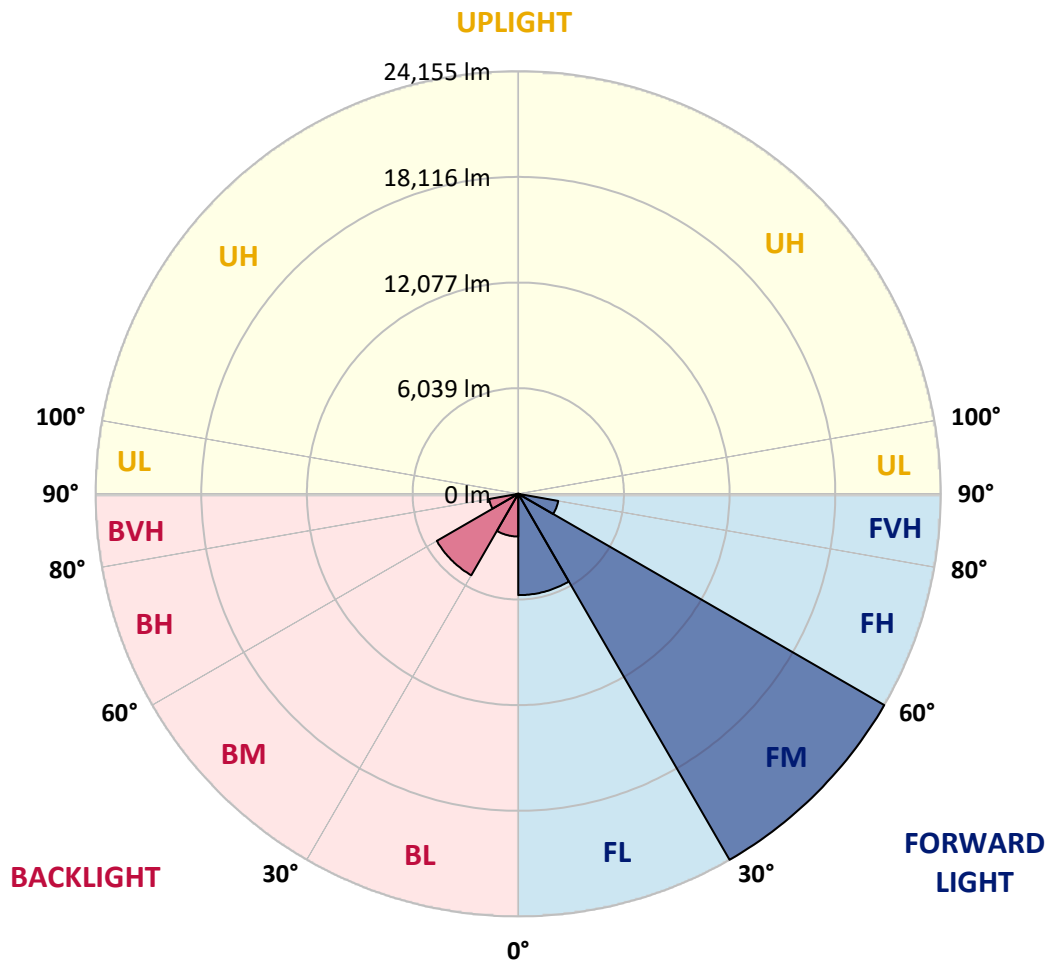


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5791.3	13.8			
FM (30°-60°)	24154.6	57.6			
FH (60°-80°)	2315.9	5.5			G2/5000
FVH (80°-90°)	81.1	0.2			G1/100
BL (0°-30°)	2443.4	5.8	B3/2500		
BM (30°-60°)	5375.3	12.8	B4/8500		
BH (60°-80°)	1693.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	99.9	0.2			G1/100
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°	72°	75°	85°
0°	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5
2.5°	7512.1	7465.5	7325.3	7278.5	7112.4	6811.3	6707.5	6401.2	6271.4	6152.0	6011.8
5°	9500.5	9282.5	9266.9	9002.1	8618.0	8394.7	7730.2	7283.7	6873.6	6665.9	6281.8
7.5°	10767.2	10772.5	10772.5	10554.4	10248.1	9682.3	9085.2	8280.5	7662.7	7356.4	6702.3
10°	11971.7	11867.9	11810.8	11790.0	11582.3	11032.1	10393.5	9396.7	8550.4	8192.3	7019.0
12.5°	12823.1	12734.8	12864.6	12797.2	12646.6	12288.4	11686.2	10549.3	9490.2	9007.4	7527.7
15°	13228.1	13290.3	13394.2	13581.1	13513.6	13378.6	12714.1	11732.9	10502.5	9957.4	7979.4
17.5°	13851.0	13679.7	13804.3	14038.0	14224.8	14162.5	13783.6	12589.5	11504.5	10834.8	8586.8
20°	14287.2	14188.5	14250.8	14520.8	14660.9	15014.0	14816.7	13710.9	12464.9	11758.9	9303.2
22.5°	15533.1	15387.8	15185.3	15226.8	15278.7	15527.9	15574.6	14941.3	13581.1	12833.5	9983.3
25°	17069.8	16934.8	16696.0	16452.0	16301.4	16254.8	16415.6	15906.9	14650.6	13877.0	10715.3
27.5°	18762.2	18533.8	18383.3	17879.7	17474.7	17412.5	17334.6	17059.4	15917.3	15081.4	11540.8
30°	20408.0	20226.3	20023.8	19219.1	18798.6	18731.1	18346.9	18424.8	17293.1	16363.8	12475.3
32.5°	21653.9	21669.5	21207.5	20600.0	20205.5	19847.3	19707.1	19930.4	19058.2	18310.6	13518.8
35°	22661.1	22707.8	22266.6	21716.2	21290.5	21539.7	21477.5	21581.2	21166.0	20252.2	14733.6
37.5°	23642.3	23408.6	22936.3	22671.5	22448.2	22858.4	23387.9	23476.2	23554.1	22479.4	16145.7
40°	23803.2	23824.0	23548.8	23735.7	23455.4	24073.2	25303.6	25189.4	25506.1	24566.4	17677.2
42.5°	23574.8	23621.5	23730.6	23995.3	24670.2	25412.6	27240.1	26772.8	27157.0	26321.1	19167.1
45°	23201.0	23008.9	23143.9	24151.1	25319.1	26970.1	29010.4	28647.0	28522.3	27821.5	20942.7
47.5°	21415.1	21612.4	22032.9	23273.7	25028.4	27240.1	30266.7	30183.7	30557.4	30064.2	22557.3
50°	18938.7	18860.9	19670.7	21067.3	23330.8	26710.5	30199.2	30952.0	31756.7	31071.4	23278.9
52.5°	14183.3	14598.7	15294.3	17028.2	20257.4	23824.0	28724.9	29981.1	30635.3	30490.0	22697.4
55°	8965.8	9090.4	9511.0	11572.0	14479.2	19120.5	24623.5	27535.9	28704.1	29249.1	22162.7
57.5°	4355.7	4122.1	4636.0	6292.2	8363.6	12859.5	18990.7	23985.0	26523.6	27510.0	20999.8
60°	2273.9	2362.1	2564.6	3156.4	4324.6	6676.4	11836.7	15984.8	19862.8	21378.8	15917.3
62.5°	1884.5	1915.7	2050.7	2346.6	2876.1	3841.8	6042.9	7792.5	10128.7	11494.1	9054.0
65°	1599.0	1614.6	1760.0	1957.2	2294.7	2704.8	3109.8	3255.1	3940.4	4044.2	3218.8
67.5°	1334.2	1349.8	1505.6	1692.4	1910.5	2019.5	2123.4	2112.9	2190.8	2159.7	2154.5
70°	1028.0	1043.5	1204.5	1401.7	1510.8	1448.5	1770.3	1843.0	1874.2	1900.1	1941.6
72.5°	742.4	773.6	898.1	1038.3	981.2	1126.6	1458.8	1567.9	1609.3	1625.0	1676.9
75°	539.9	550.3	581.5	539.9	623.0	783.9	1028.0	1162.9	1214.8	1230.4	1308.3
77.5°	238.8	244.0	249.2	311.5	399.7	488.0	612.6	721.7	794.3	815.1	835.9
80°	124.6	129.8	161.0	212.9	285.5	358.2	446.5	508.8	555.5	560.7	581.5
82.5°	77.9	83.1	114.2	150.5	202.4	264.7	327.1	379.0	415.3	420.5	425.7
85°	36.3	46.8	67.4	93.4	135.0	171.3	176.5	150.5	161.0	166.1	155.8
87.5°	10.3	15.6	20.8	15.6	20.8	20.8	26.0	31.1	31.1	31.1	36.3
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°	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5	5840.5
2.5°	5933.9	5887.3	5705.5	5638.0	5461.5	5492.7	5399.2	5394.0	5373.2	5368.0	5362.9
5°	6079.3	5933.9	5715.9	5549.8	5451.1	5440.8	5373.2	5373.2	5394.0	5409.6	5373.2
7.5°	6318.1	6152.0	5783.4	5627.6	5539.4	5523.8	5477.1	5440.8	5487.4	5471.9	5430.3
10°	6593.3	6302.5	5913.2	5778.2	5632.8	5596.5	5596.5	5612.1	5534.2	5560.2	5518.6
12.5°	6899.6	6510.2	6079.3	5923.6	5752.3	5731.5	5721.1	5606.9	5648.4	5627.6	5523.8
15°	7288.9	6749.0	6292.2	6027.4	5882.0	5788.6	5653.6	5632.8	5606.9	5555.0	5508.2
17.5°	7709.4	7008.6	6390.8	6058.6	5840.5	5773.0	5669.2	5560.2	5482.3	5492.7	5456.3
20°	8067.6	7247.4	6427.2	6089.7	5809.4	5679.5	5518.6	5451.1	5368.0	5362.9	5357.7
22.5°	8493.3	7569.3	6479.1	6006.6	5715.9	5580.9	5471.9	5352.5	5295.4	5222.7	5259.0
25°	9002.1	7693.9	6489.4	5959.9	5648.4	5409.6	5352.5	5222.7	5201.9	5098.1	5118.8
27.5°	9370.8	7761.3	6406.4	5814.5	5492.7	5310.9	5207.1	5113.7	5077.4	4999.5	4978.7
30°	9863.9	7865.2	6229.9	5632.8	5336.9	5134.5	5072.2	5051.4	4947.5	4864.5	4854.1
32.5°	10424.6	7932.6	6115.7	5445.9	5175.9	5020.3	5051.4	4952.7	4823.0	4750.3	4729.5
35°	10871.1	7958.6	5830.1	5233.0	5066.9	4968.3	4932.0	4911.2	4724.3	4656.8	4604.9
37.5°	11551.2	7901.5	5591.3	5082.5	4947.5	4911.2	4880.1	4739.9	4527.0	4428.4	4355.7
40°	12345.5	7886.0	5285.0	4869.6	4833.3	4874.9	4781.4	4563.4	4267.5	4158.4	4106.5
42.5°	13108.7	7995.0	5092.9	4755.4	4708.8	4724.3	4594.6	4267.5	4122.1	4059.8	3976.8
45°	14385.8	8223.4	4776.2	4578.9	4558.1	4547.8	4392.0	4049.4	3966.3	3888.4	3872.9
47.5°	15538.3	8072.8	4573.8	4397.3	4418.0	4360.9	4028.6	3919.6	3826.1	3748.3	3722.4
50°	15605.8	7714.7	4288.2	4257.1	4262.3	4163.6	3846.9	3774.2	3654.8	3602.9	3566.6
52.5°	15252.8	7128.0	4023.4	4033.9	4049.4	3888.4	3623.7	3571.8	3473.2	3400.5	3379.7
55°	14261.2	6214.3	3763.9	3805.4	3846.9	3540.6	3457.6	3327.8	3249.9	3146.1	3151.2
57.5°	12563.5	5004.6	3400.5	3467.9	3556.2	3218.8	3156.4	2995.6	2881.3	2798.3	2787.8
60°	8420.7	3561.4	2855.4	2881.3	3078.6	2943.6	2938.5	2777.5	2621.7	2549.1	2507.5
62.5°	4968.3	2720.4	2466.0	2440.0	2434.9	2512.7	2642.5	2585.4	2382.9	2242.8	2284.2
65°	2601.0	2351.8	2294.7	2206.4	2154.5	2133.7	2232.4	2258.3	2123.4	1972.8	1962.4
67.5°	2185.7	2185.7	2138.9	2107.8	2035.1	1946.8	1884.5	1801.5	1780.7	1739.2	1687.2
70°	1988.4	2040.3	2024.7	1952.0	1889.7	1791.1	1630.1	1495.1	1365.4	1318.7	1349.8
72.5°	1734.0	1785.9	1785.9	1749.5	1666.5	1515.9	1360.1	1204.5	1095.4	1012.3	1002.0
75°	1334.2	1360.1	1422.5	1380.9	1271.9	1178.5	1017.5	856.6	752.8	674.9	659.3
77.5°	851.4	893.0	893.0	887.8	809.9	721.7	617.8	503.6	425.7	368.6	353.1
80°	565.9	591.8	612.6	591.8	539.9	472.4	394.6	316.7	259.6	212.9	202.4
82.5°	415.3	446.5	462.0	441.3	389.4	337.4	280.3	223.2	166.1	129.8	119.4
85°	161.0	166.1	186.9	223.2	218.1	212.9	171.3	124.6	93.4	67.4	62.3
87.5°	41.5	36.3	41.5	41.5	36.3	31.1	31.1	31.1	31.1	15.6	20.8
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)