

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: P647104

Luminaire Tested: **GALN-SA8C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
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-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25946.3 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

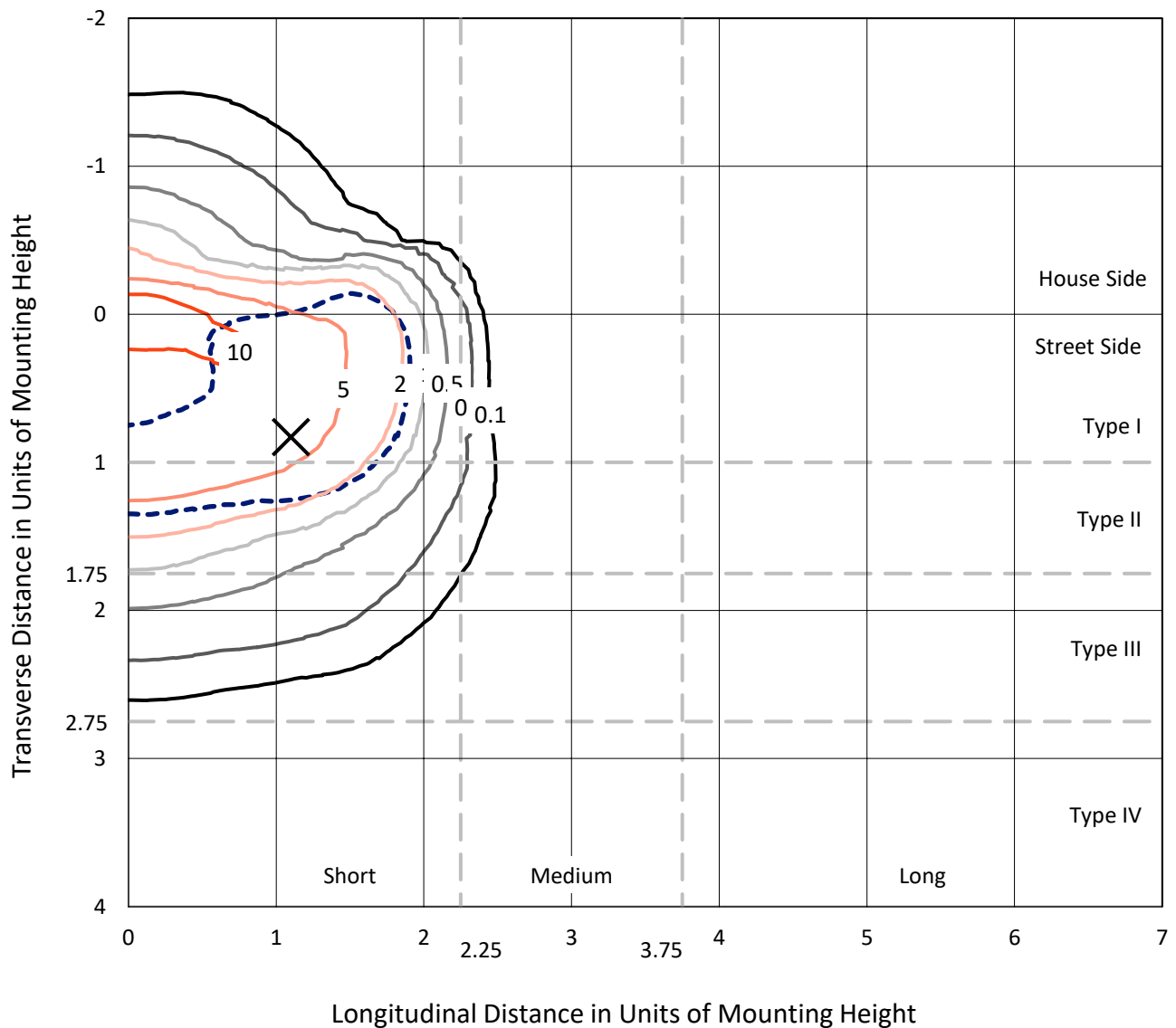
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

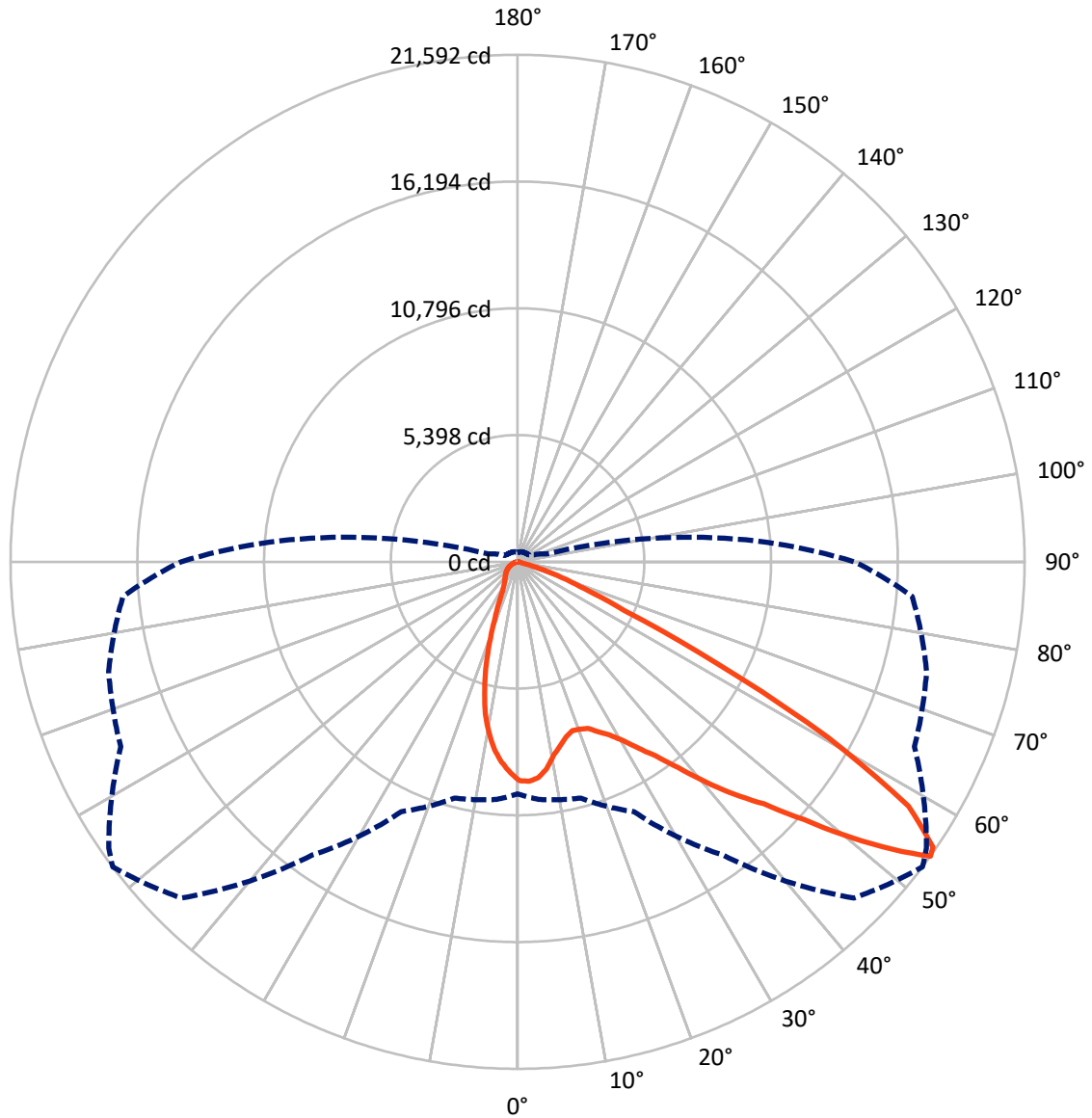
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA8C-835-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4292.9	0.0	4292.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21653.4	0.0	21653.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	25946.3	0.0	25946.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.6	3.1
10°-20°	1833.2	7.1
20°-30°	2605.4	10.0
30°-40°	4020.8	15.5
40°-50°	6304.2	24.3
50°-60°	7323.2	28.2
60°-70°	2767.1	10.7
70°-80°	263.1	1.0
80°-90°	29.6	0.1
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°	25946.3	100.0
0°-180°	25946.3	100.0

Coefficient of Utilization

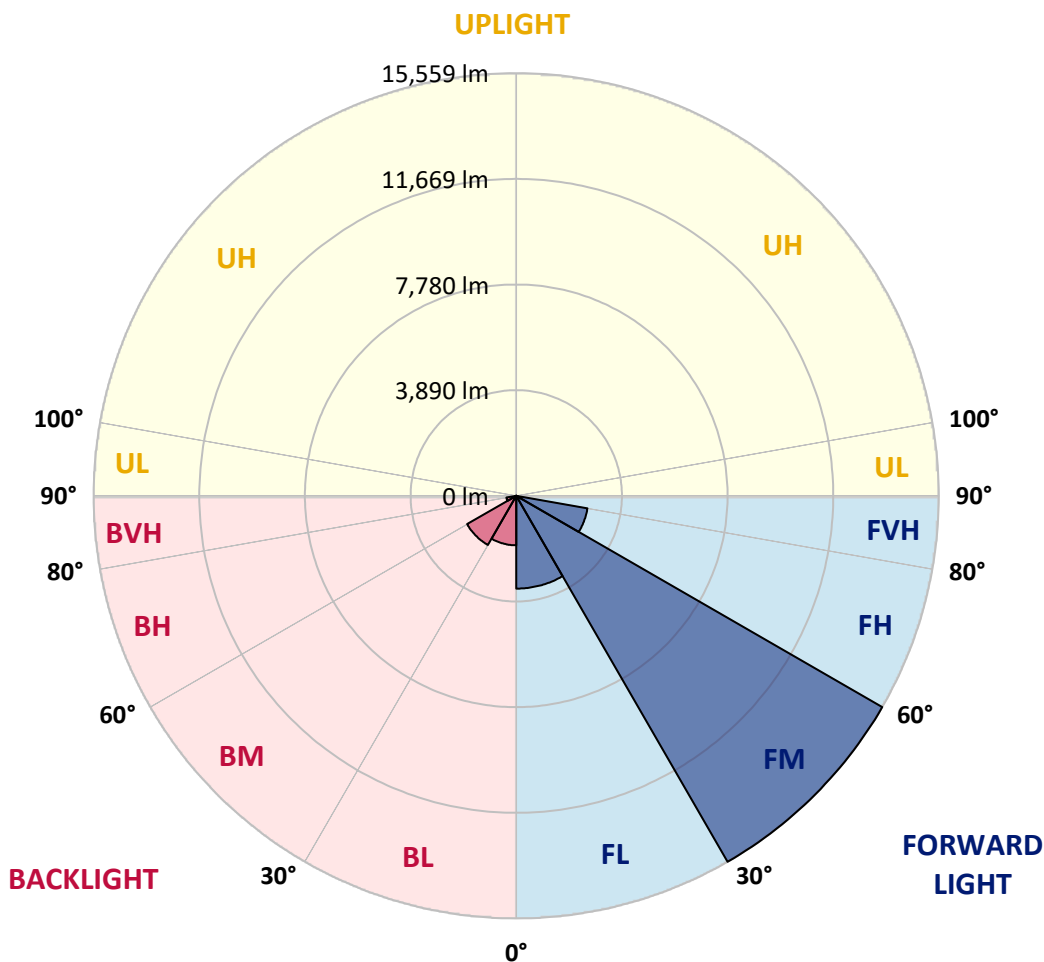


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3416.4	13.2			
FM (30°-60°)	15559.2	60.0			
FH (60°-80°)	2662.5	10.3			G2/5000
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1821.7	7.0	B3/2500		
BM (30°-60°)	2089.0	8.1	B2/2500		
BH (60°-80°)	367.8	1.4	B1/500		G1/500
BVH (80°-90°)	14.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CATALOG NUMBER: GALN-SA8C-835-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5
2.5°	9271.1	9189.0	9271.1	9280.8	9338.8	9392.0	9358.1	9435.5	9392.0	9343.6	9329.1
5°	8521.9	8633.0	8637.9	8811.9	8773.3	9092.3	9232.4	9193.8	9430.6	9416.1	9382.3
7.5°	7850.0	7806.5	7864.5	8067.5	8323.7	8691.1	8894.1	8889.2	9227.7	9469.3	9445.2
10°	7226.5	7221.6	7342.4	7502.0	7719.5	8106.2	8386.6	8526.7	9053.6	9421.0	9474.1
12.5°	6805.9	6786.6	6917.1	7047.6	7390.8	7690.5	8048.2	8115.9	8720.1	9251.8	9338.8
15°	6530.4	6573.9	6583.5	6834.9	7052.4	7448.8	7729.1	7869.3	8565.4	9116.5	9449.9
17.5°	6482.1	6540.1	6544.9	6752.7	6984.8	7318.3	7564.8	7753.3	8434.9	9184.1	9454.8
20°	6578.8	6544.9	6573.9	6704.4	6931.6	7250.7	7608.3	7671.1	8391.4	9217.9	9508.0
22.5°	6854.2	6844.6	6772.1	6878.4	7037.9	7371.5	7709.8	7806.5	8517.1	9392.0	9551.5
25°	7158.8	7212.0	7144.2	7129.8	7240.9	7569.7	8019.2	8144.8	8937.6	9706.1	9686.8
27.5°	7729.1	7676.0	7676.0	7608.3	7579.3	7738.9	8352.7	8560.5	9406.5	10112.2	9841.5
30°	8275.4	8333.4	8289.9	8314.1	8120.7	8106.2	8826.4	9082.6	10237.9	10730.9	10170.2
32.5°	9140.6	9063.3	9135.8	9072.9	8816.7	8555.8	9469.3	9735.2	11243.3	11441.5	10663.2
35°	9860.9	9827.0	10136.4	10126.7	9711.0	9454.8	10150.9	10547.2	11944.2	12292.2	11243.3
37.5°	10885.6	10822.8	11175.6	11344.8	10972.6	10590.7	11127.3	11586.5	12596.7	12973.8	11837.9
40°	11939.3	12098.8	12572.6	12852.9	12456.6	11949.0	12321.2	12461.4	13031.8	13418.5	12243.8
42.5°	13273.5	13505.5	13988.8	14230.6	14196.7	13645.7	13534.5	13529.7	13346.0	13292.8	12543.6
45°	14554.4	14467.4	15211.8	15738.7	16164.0	16004.5	14704.3	14559.3	13843.8	13481.3	12620.9
47.5°	15115.1	15086.1	15593.7	16531.4	17981.5	18179.7	16405.7	15845.0	14684.9	14274.1	13041.4
50°	14390.1	14539.9	15042.6	16081.9	18305.4	19818.4	18493.9	17739.9	15666.2	15240.8	14037.2
52.5°	12021.6	12123.0	12601.6	13921.2	17203.3	20785.1	20495.1	20060.1	17469.1	16763.4	15772.5
54°	9885.0	10155.7	10416.7	11741.2	15240.8	20248.5	21592.3	21258.8	18643.8	18029.9	16865.0
55°	8608.9	8768.4	8956.9	10276.6	13882.5	19339.8	21466.6	21495.7	19431.6	18426.3	17599.6
57.5°	6288.7	6399.9	6206.5	6791.4	9532.2	15704.9	19634.7	20417.7	20495.1	19020.8	18049.2
60°	4804.7	4853.1	4635.6	4727.4	5926.1	10779.2	15187.6	16130.2	18489.1	16623.2	15289.2
62.5°	3726.8	3736.5	3731.6	3891.2	4084.5	6341.9	9498.3	10334.6	12746.6	11804.0	10382.9
65°	2745.6	2702.1	2779.4	3262.8	3485.1	3987.8	5002.9	5612.0	6926.7	5848.9	4181.2
67.5°	1778.8	1793.3	1870.7	2426.5	2987.2	3059.7	3079.1	3030.8	3035.6	1672.5	1048.9
70°	1068.2	1092.4	1068.2	1372.8	2136.5	2194.5	2006.0	1957.7	1527.5	396.4	391.5
72.5°	633.2	599.4	536.5	589.8	889.4	1063.4	957.1	952.3	599.4	232.0	232.0
75°	265.8	241.7	198.2	178.8	236.9	227.1	227.1	203.0	159.5	154.6	145.0
77.5°	53.2	53.2	38.7	43.5	58.0	67.7	82.1	82.1	96.7	96.7	91.8
80°	0.0	4.9	14.5	29.0	43.5	62.9	72.5	72.5	82.1	82.1	67.7
82.5°	0.0	4.9	14.5	29.0	38.7	58.0	72.5	72.5	82.1	87.0	72.5
85°	0.0	4.9	14.5	24.2	38.7	48.3	48.3	43.5	33.8	29.0	19.3
87.5°	0.0	0.0	4.9	9.6	4.9	9.6	9.6	9.6	9.6	9.6	9.6
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°	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5	9319.5
2.5°	9363.0	9358.1	9242.1	9053.6	9010.1	8850.6	8831.2	8734.6	8787.8	8608.9	8589.6
5°	9285.6	9227.7	9087.4	8966.6	8613.7	8362.4	8164.2	7922.5	7782.3	7806.5	7714.7
7.5°	9396.8	9247.0	9000.4	8579.9	8149.7	7709.8	7473.0	6979.9	6801.1	6535.2	6496.6
10°	9280.8	9169.6	8787.8	8091.7	7497.1	6863.9	6308.0	5761.9	5346.1	5167.3	5128.6
12.5°	9271.1	9077.8	8439.7	7666.4	6805.9	5897.2	5090.0	4408.4	3997.5	3765.5	3712.3
15°	9121.2	8889.2	8048.2	7008.9	5819.8	4688.8	3809.0	3151.6	2837.4	2702.1	2740.7
17.5°	9135.8	8787.8	7656.6	6312.9	4848.3	3441.6	2600.6	2262.2	2180.0	2213.9	2213.9
20°	9121.2	8560.5	7182.9	5510.4	3712.3	2387.8	1909.3	1788.5	1841.7	1948.0	1923.8
22.5°	9044.0	8454.2	6747.9	4664.6	2731.1	1769.2	1532.3	1537.1	1619.3	1749.8	1778.8
25°	9102.0	8217.4	6196.9	3809.0	1991.5	1411.4	1329.3	1363.1	1450.1	1546.8	1566.2
27.5°	9058.4	8048.2	5621.6	2958.3	1455.0	1213.3	1208.4	1247.1	1285.8	1358.3	1358.3
30°	9106.8	7893.5	5056.1	2199.4	1198.8	1111.8	1092.4	1121.4	1160.1	1174.6	1169.8
32.5°	9285.6	7777.5	4403.5	1643.4	1058.6	1015.1	1015.1	1015.1	1010.2	1029.6	1034.4
35°	9677.2	7796.8	3828.3	1271.3	966.8	932.9	918.4	899.0	889.4	899.0	903.9
37.5°	10102.5	7787.2	3233.8	1082.7	899.0	870.1	836.2	807.3	802.4	812.0	797.6
40°	10291.0	7879.0	2682.7	971.5	836.2	802.4	749.3	725.1	729.9	739.5	729.9
42.5°	10547.2	7908.0	2325.0	884.6	778.2	725.1	691.2	662.3	657.4	671.9	667.0
45°	10542.4	7743.6	1948.0	836.2	725.1	667.0	623.6	599.4	599.4	609.0	613.9
47.5°	10851.8	7719.5	1672.5	792.7	686.4	628.4	575.2	555.9	551.1	551.1	541.4
50°	11572.0	8057.9	1459.8	744.4	638.1	584.9	541.4	517.2	497.9	488.2	483.3
52.5°	12978.6	9111.6	1295.5	686.4	584.9	541.4	502.7	483.3	459.2	435.0	430.2
54°	14341.7	10199.2	1285.8	638.1	541.4	512.4	478.6	468.9	439.9	406.1	396.4
55°	14955.6	10832.4	1319.6	599.4	512.4	493.1	464.0	454.4	425.4	386.7	381.9
57.5°	15463.2	11079.0	1300.2	497.9	464.0	459.2	435.0	420.5	386.7	333.6	323.8
60°	12446.9	8376.8	932.9	439.9	425.4	415.7	396.4	386.7	343.2	285.2	280.4
62.5°	7864.5	4819.2	594.5	386.7	372.2	357.7	333.6	323.8	285.2	227.1	212.7
65°	3349.8	1996.3	401.2	343.2	319.0	294.9	275.5	261.1	227.1	169.2	164.4
67.5°	870.1	710.6	333.6	299.7	265.8	232.0	217.5	193.3	154.6	116.0	111.2
70°	391.5	357.7	280.4	251.3	212.7	178.8	159.5	135.4	101.5	77.4	72.5
72.5°	232.0	227.1	212.7	188.5	159.5	135.4	116.0	91.8	67.7	43.5	43.5
75°	145.0	140.2	145.0	130.5	111.2	101.5	87.0	62.9	38.7	19.3	19.3
77.5°	87.0	87.0	87.0	82.1	77.4	77.4	62.9	38.7	19.3	4.9	4.9
80°	67.7	67.7	72.5	67.7	67.7	67.7	53.2	29.0	9.6	0.0	0.0
82.5°	67.7	72.5	82.1	77.4	67.7	58.0	48.3	29.0	9.6	0.0	0.0
85°	19.3	14.5	24.2	33.8	48.3	43.5	33.8	24.2	9.6	0.0	0.0
87.5°	9.6	9.6	9.6	9.6	4.9	4.9	4.9	4.9	4.9	0.0	0.0
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)