

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: P648644

Luminaire Tested: **GALN-SA9B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648644
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-SA9B-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 23575.3 lumens
Efficiency: N/A
Efficacy: 64.8 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

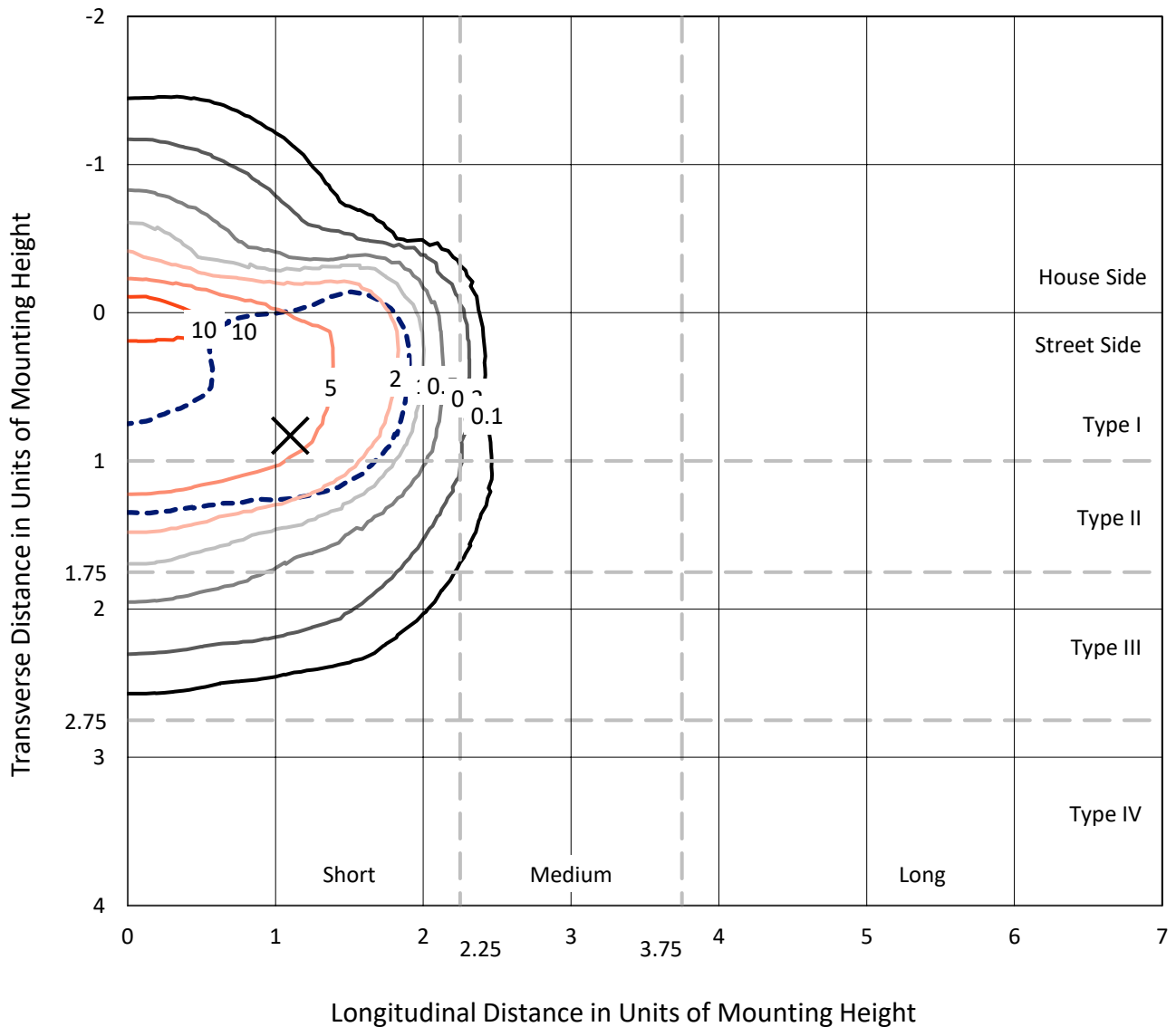
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

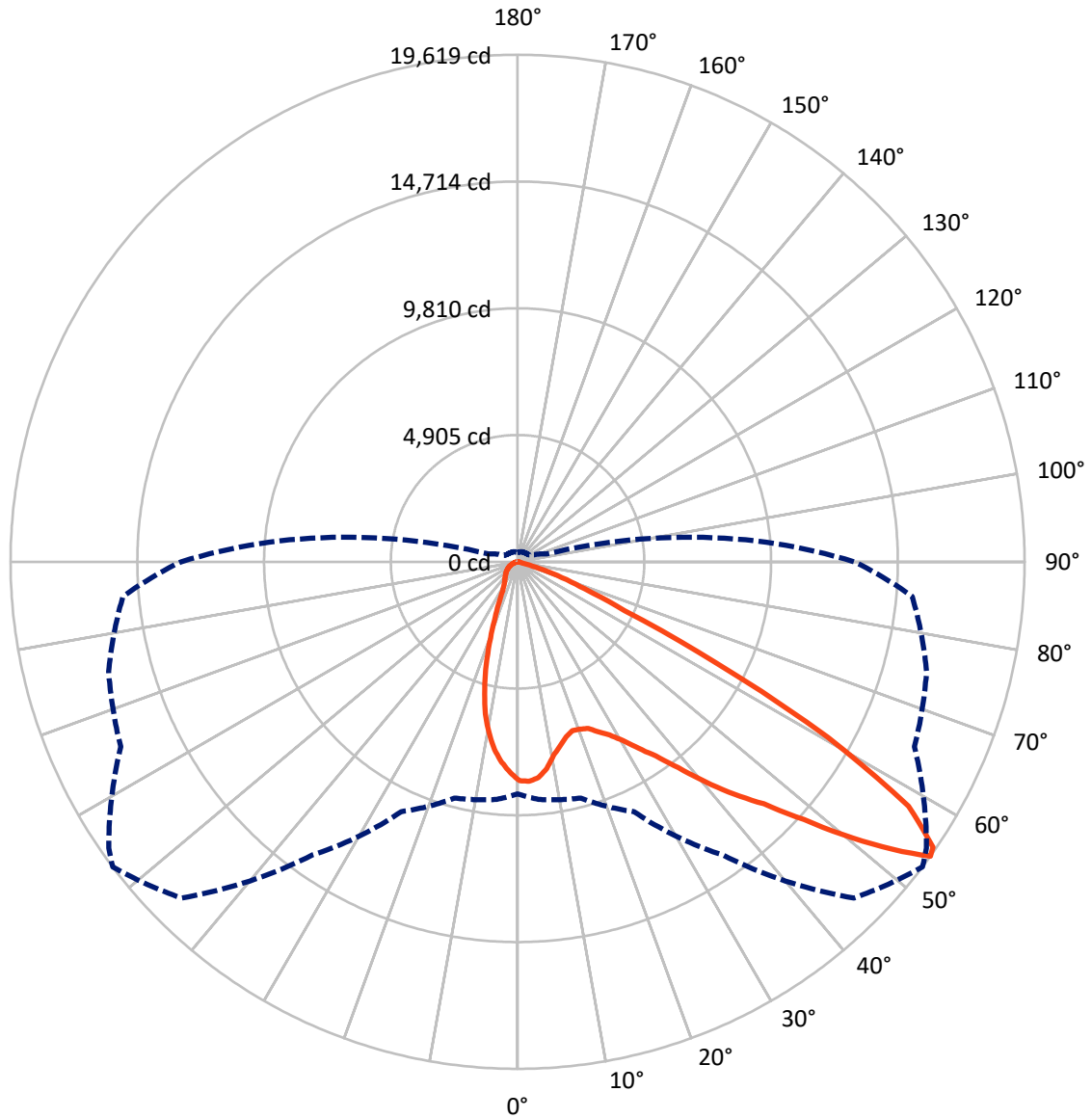
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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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	3900.6	0.0	3900.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19674.7	0.0	19674.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	23575.3	0.0	23575.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.5	3.1
10°-20°	1665.7	7.1
20°-30°	2367.3	10.0
30°-40°	3653.4	15.5
40°-50°	5728.1	24.3
50°-60°	6654.0	28.2
60°-70°	2514.3	10.7
70°-80°	239.1	1.0
80°-90°	26.9	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°	23575.3	100.0
0°-180°	23575.3	100.0

Coefficient of Utilization

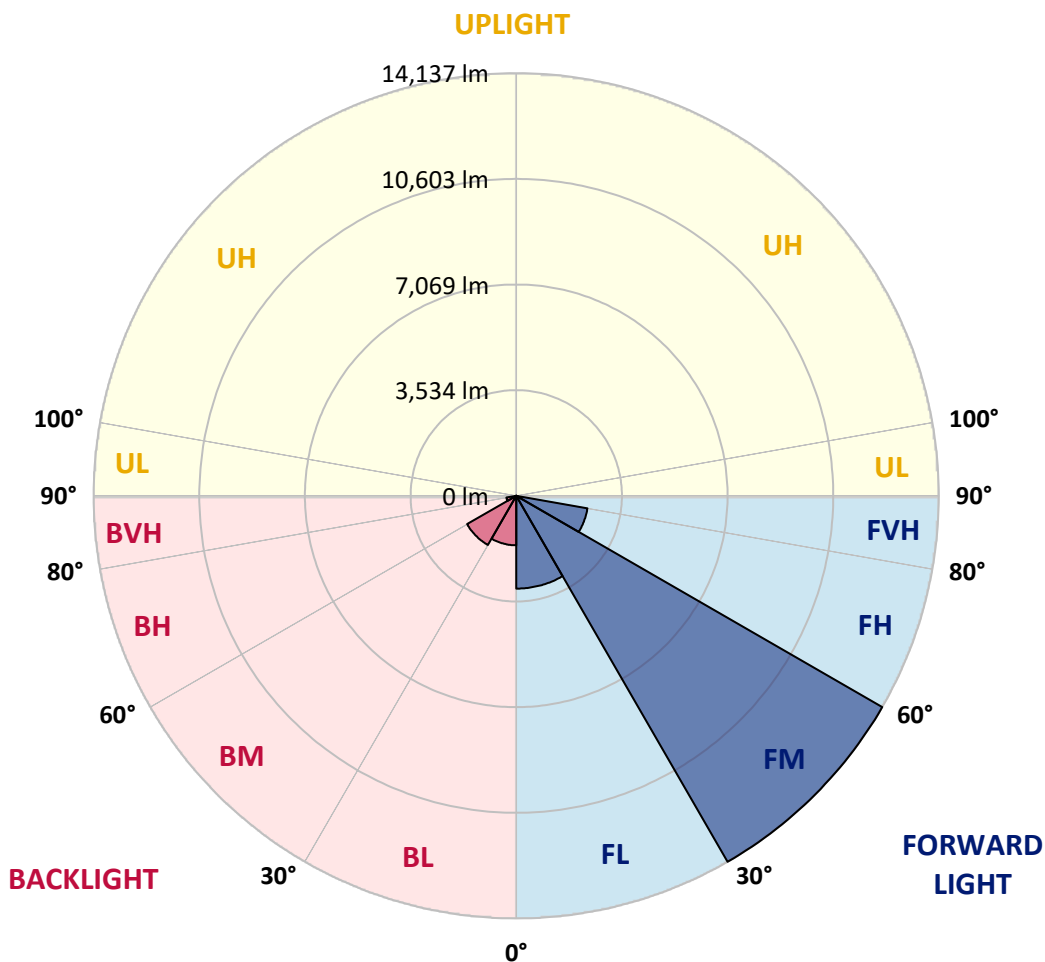


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3104.3	13.2			
FM (30°-60°)	14137.4	60.0			
FH (60°-80°)	2419.2	10.3			G2/5000
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	1655.3	7.0	B3/2500		
BM (30°-60°)	1898.1	8.1	B2/2500		
BH (60°-80°)	334.2	1.4	B1/500		G1/500
BVH (80°-90°)	13.0	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8
2.5°	8424.0	8349.3	8424.0	8432.8	8485.4	8533.8	8503.0	8573.3	8533.8	8489.8	8476.7
5°	7743.2	7844.2	7848.6	8006.7	7971.6	8261.4	8388.8	8353.7	8568.9	8555.7	8525.0
7.5°	7132.7	7093.1	7145.9	7330.3	7563.1	7896.9	8081.3	8077.0	8384.4	8604.0	8582.1
10°	6566.1	6561.7	6671.6	6816.5	7014.1	7365.4	7620.2	7747.6	8226.3	8560.1	8608.4
12.5°	6184.0	6166.4	6285.0	6403.6	6715.5	6987.7	7312.8	7374.2	7923.3	8406.4	8485.4
15°	5933.7	5973.2	5982.0	6210.4	6408.0	6768.2	7022.9	7150.3	7782.7	8283.4	8586.5
17.5°	5889.7	5942.4	5946.8	6135.7	6346.5	6649.5	6873.6	7044.8	7664.2	8344.9	8590.8
20°	5977.6	5946.8	5973.2	6091.7	6298.2	6588.1	6913.1	6970.2	7624.6	8375.7	8639.2
22.5°	6227.9	6219.1	6153.3	6249.9	6394.8	6697.9	7005.3	7093.1	7738.8	8533.8	8678.7
25°	6504.6	6552.9	6491.5	6478.3	6579.3	6878.0	7286.4	7400.6	8120.9	8819.2	8801.6
27.5°	7022.9	6974.6	6974.6	6913.1	6886.7	7031.7	7589.5	7778.3	8546.9	9188.2	8942.2
30°	7519.1	7571.9	7532.4	7554.3	7378.6	7365.4	8019.9	8252.7	9302.4	9750.3	9240.9
32.5°	8305.4	8235.1	8301.0	8243.9	8011.1	7773.9	8604.0	8845.6	10215.9	10396.0	9688.8
35°	8959.8	8929.0	9210.1	9201.3	8823.6	8590.8	9223.3	9583.5	10852.8	11168.9	10215.9
37.5°	9890.9	9833.8	10154.4	10308.1	9969.9	9623.0	10110.5	10527.7	11445.7	11788.2	10756.1
40°	10848.4	10993.3	11423.7	11678.4	11318.3	10857.2	11195.3	11322.7	11841.0	12192.3	11125.0
42.5°	12060.5	12271.4	12710.6	12930.1	12899.5	12398.7	12297.7	12293.3	12126.5	12078.2	11397.3
45°	13224.5	13145.4	13821.8	14300.5	14687.0	14542.0	13360.6	13228.9	12578.8	12249.4	11467.7
47.5°	13733.9	13707.6	14168.8	15020.8	16338.4	16518.5	14906.6	14397.1	13343.0	12969.7	11849.8
50°	13075.2	13211.2	13668.0	14612.3	16632.7	18007.4	16804.0	16118.8	14234.6	13848.1	12754.5
52.5°	10923.0	11015.2	11450.0	12649.1	15631.3	18885.8	18622.2	18227.0	15872.9	15231.6	14331.2
54°	8981.7	9227.7	9464.8	10668.3	13848.1	18398.3	19619.2	19316.2	16940.1	16382.3	15323.9
55°	7822.2	7967.2	8138.5	9337.5	12614.0	17572.6	19505.1	19531.5	17656.0	16742.5	15991.4
57.5°	5714.0	5815.1	5639.4	6170.8	8661.2	14269.8	17840.5	18552.0	18622.2	17282.7	16399.9
60°	4365.7	4409.6	4212.0	4295.5	5384.6	9794.2	13799.8	14656.3	16799.6	15104.2	13892.1
62.5°	3386.2	3395.1	3390.6	3535.6	3711.3	5762.3	8630.4	9390.2	11581.8	10725.4	9434.1
65°	2494.7	2455.2	2525.4	2964.6	3166.7	3623.4	4545.8	5099.1	6293.8	5314.4	3799.1
67.5°	1616.3	1629.4	1699.7	2204.8	2714.3	2780.2	2797.7	2753.8	2758.2	1519.6	953.1
70°	970.6	992.6	970.6	1247.3	1941.3	1994.0	1822.7	1778.7	1387.9	360.2	355.7
72.5°	575.3	544.6	487.5	535.8	808.1	966.2	869.6	865.2	544.6	210.8	210.8
75°	241.6	219.6	180.1	162.5	215.2	206.4	206.4	184.5	144.9	140.5	131.8
77.5°	48.3	48.3	35.2	39.5	52.7	61.5	74.7	74.7	87.9	87.9	83.5
80°	0.0	4.4	13.2	26.4	39.5	57.1	65.9	65.9	74.7	74.7	61.5
82.5°	0.0	4.4	13.2	26.4	35.2	52.7	65.9	65.9	74.7	79.1	65.9
85°	0.0	4.4	13.2	21.9	35.2	43.9	43.9	39.5	30.8	26.4	17.5
87.5°	0.0	0.0	4.4	8.8	4.4	8.8	8.8	8.8	8.8	8.8	8.8
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°	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8	8467.8
2.5°	8507.4	8503.0	8397.6	8226.3	8186.8	8041.8	8024.3	7936.4	7984.7	7822.2	7804.6
5°	8437.1	8384.4	8257.0	8147.3	7826.6	7598.2	7418.1	7198.6	7071.2	7093.1	7009.7
7.5°	8538.1	8402.0	8178.0	7795.9	7405.0	7005.3	6790.1	6342.1	6179.6	5938.0	5902.9
10°	8432.8	8331.7	7984.7	7352.3	6812.1	6236.7	5731.6	5235.3	4857.6	4695.1	4659.9
12.5°	8424.0	8248.3	7668.5	6965.8	6184.0	5358.3	4624.8	4005.5	3632.3	3421.4	3373.1
15°	8287.8	8077.0	7312.8	6368.5	5288.0	4260.3	3460.9	2863.6	2578.1	2455.2	2490.3
17.5°	8301.0	7984.7	6957.0	5736.0	4405.2	3127.1	2362.9	2055.5	1980.8	2011.5	2011.5
20°	8287.8	7778.3	6526.6	5007.0	3373.1	2169.7	1734.9	1625.0	1673.3	1770.0	1748.0
22.5°	8217.5	7681.7	6131.3	4238.3	2481.5	1607.5	1392.3	1396.6	1471.3	1590.0	1616.3
25°	8270.2	7466.5	5630.6	3460.9	1809.5	1282.5	1207.8	1238.5	1317.6	1405.5	1423.0
27.5°	8230.7	7312.8	5108.0	2688.0	1322.0	1102.4	1098.0	1133.2	1168.3	1234.2	1234.2
30°	8274.6	7172.2	4594.1	1998.4	1089.2	1010.1	992.6	1018.9	1054.1	1067.2	1062.8
32.5°	8437.1	7066.8	4001.1	1493.3	961.8	922.3	922.3	922.3	917.9	935.5	939.9
35°	8792.9	7084.3	3478.5	1155.1	878.4	847.7	834.5	816.9	808.1	816.9	821.3
37.5°	9179.3	7075.6	2938.3	983.8	816.9	790.6	759.8	733.4	729.1	737.9	724.7
40°	9350.7	7159.0	2437.6	882.8	759.8	729.1	680.7	658.8	663.2	672.0	663.2
42.5°	9583.5	7185.4	2112.6	803.7	707.1	658.8	628.0	601.7	597.4	610.5	606.1
45°	9579.1	7036.0	1770.0	759.8	658.8	606.1	566.6	544.6	544.6	553.4	557.8
47.5°	9860.2	7014.1	1519.6	720.3	623.7	571.0	522.7	505.1	500.7	500.7	491.9
50°	10514.6	7321.5	1326.4	676.4	579.7	531.4	491.9	470.0	452.4	443.6	439.2
52.5°	11792.7	8279.0	1177.1	623.7	531.4	491.9	456.8	439.2	417.3	395.3	390.9
54°	13031.2	9267.2	1168.3	579.7	491.9	465.6	434.8	426.0	399.6	368.9	360.2
55°	13589.0	9842.5	1199.0	544.6	465.6	448.0	421.6	412.9	386.5	351.3	346.9
57.5°	14050.2	10066.6	1181.5	452.4	421.6	417.3	395.3	382.1	351.3	303.0	294.3
60°	11309.5	7611.4	847.7	399.6	386.5	377.7	360.2	351.3	311.9	259.1	254.7
62.5°	7145.9	4378.8	540.2	351.3	338.2	325.0	303.0	294.3	259.1	206.4	193.2
65°	3043.7	1813.9	364.6	311.9	289.9	267.9	250.3	237.2	206.4	153.7	149.3
67.5°	790.6	645.7	303.0	272.3	241.6	210.8	197.6	175.7	140.5	105.4	101.0
70°	355.7	325.0	254.7	228.4	193.2	162.5	144.9	123.0	92.2	70.2	65.9
72.5°	210.8	206.4	193.2	171.3	144.9	123.0	105.4	83.5	61.5	39.5	39.5
75°	131.8	127.4	131.8	118.5	101.0	92.2	79.1	57.1	35.2	17.5	17.5
77.5°	79.1	79.1	79.1	74.7	70.2	70.2	57.1	35.2	17.5	4.4	4.4
80°	61.5	61.5	65.9	61.5	61.5	61.5	48.3	26.4	8.8	0.0	0.0
82.5°	61.5	65.9	74.7	70.2	61.5	52.7	43.9	26.4	8.8	0.0	0.0
85°	17.5	13.2	21.9	30.8	43.9	39.5	30.8	21.9	8.8	0.0	0.0
87.5°	8.8	8.8	8.8	8.8	4.4	4.4	4.4	4.4	4.4	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)