

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: P532673

Luminaire Tested: **GALN-SA8A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27548 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

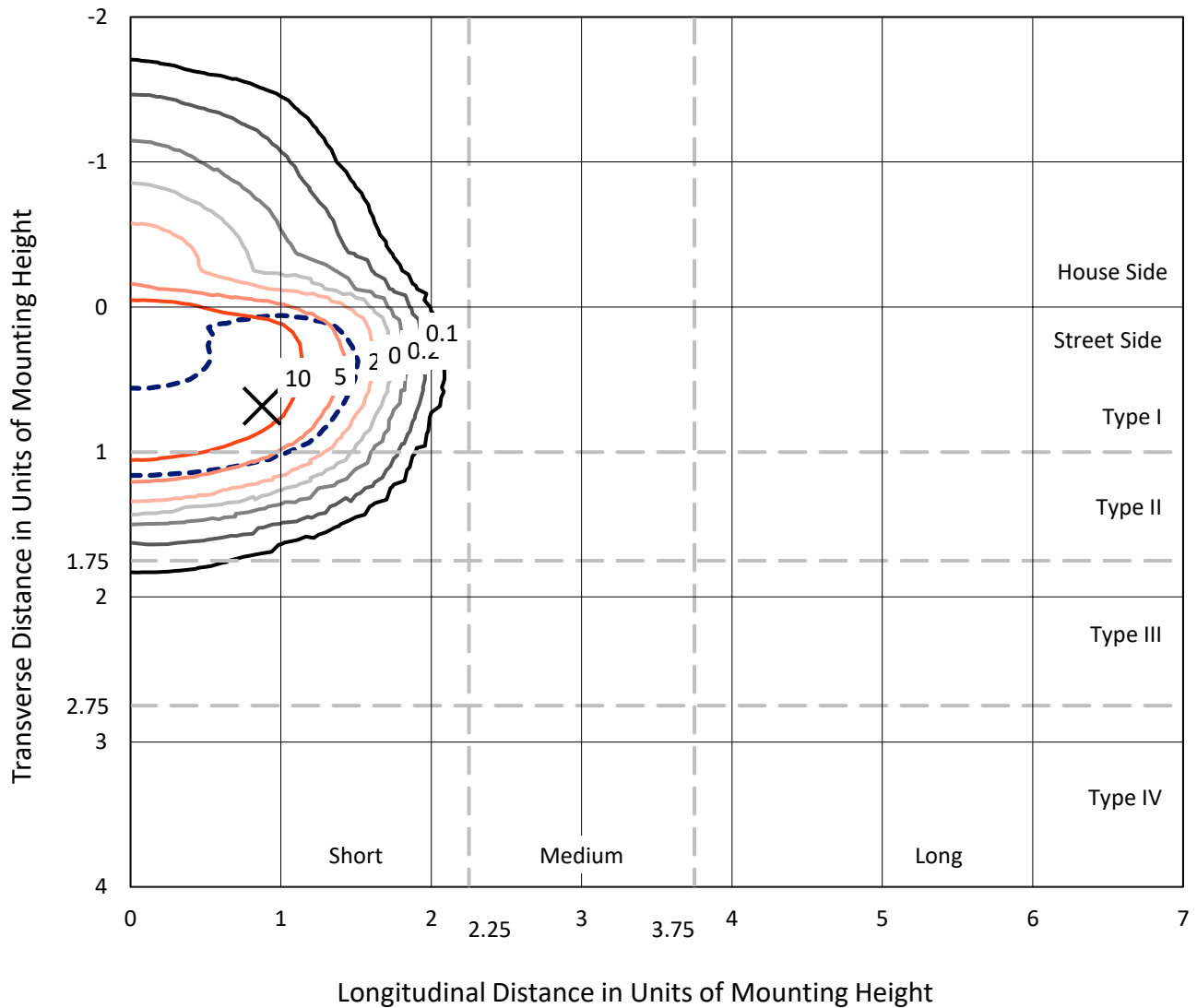
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

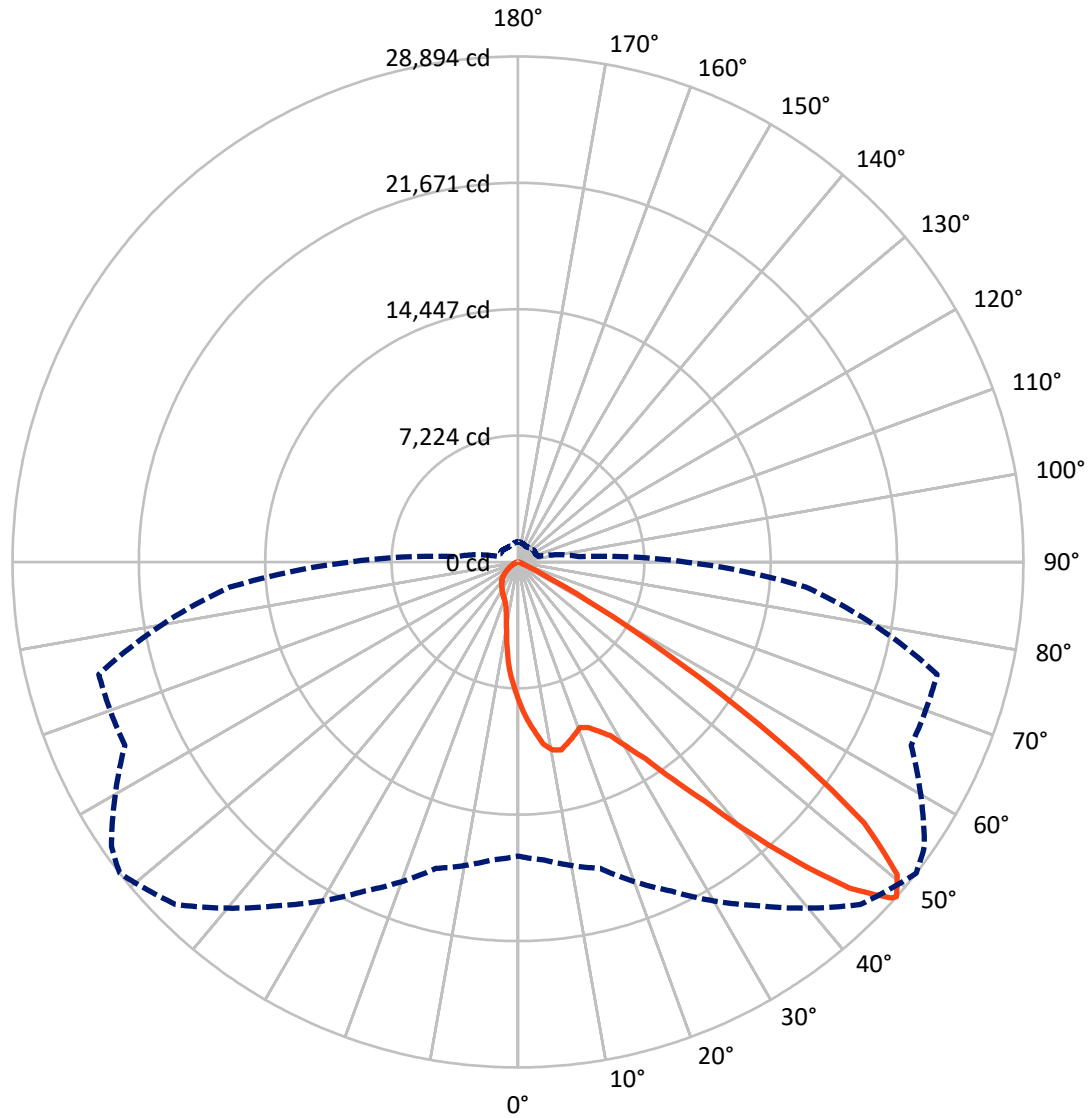
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3354.2	0.0	3354.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	24193.8	0.0	24193.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	27548.0	0.0	27548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.2	2.6
10°-20°	1902.9	6.9
20°-30°	3249.0	11.8
30°-40°	5983.1	21.7
40°-50°	9291.8	33.7
50°-60°	5592.1	20.3
60°-70°	646.8	2.3
70°-80°	125.2	0.5
80°-90°	28.9	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°	27548.0	100.0
0°-180°	27548.0	100.0

Coefficient of Utilization



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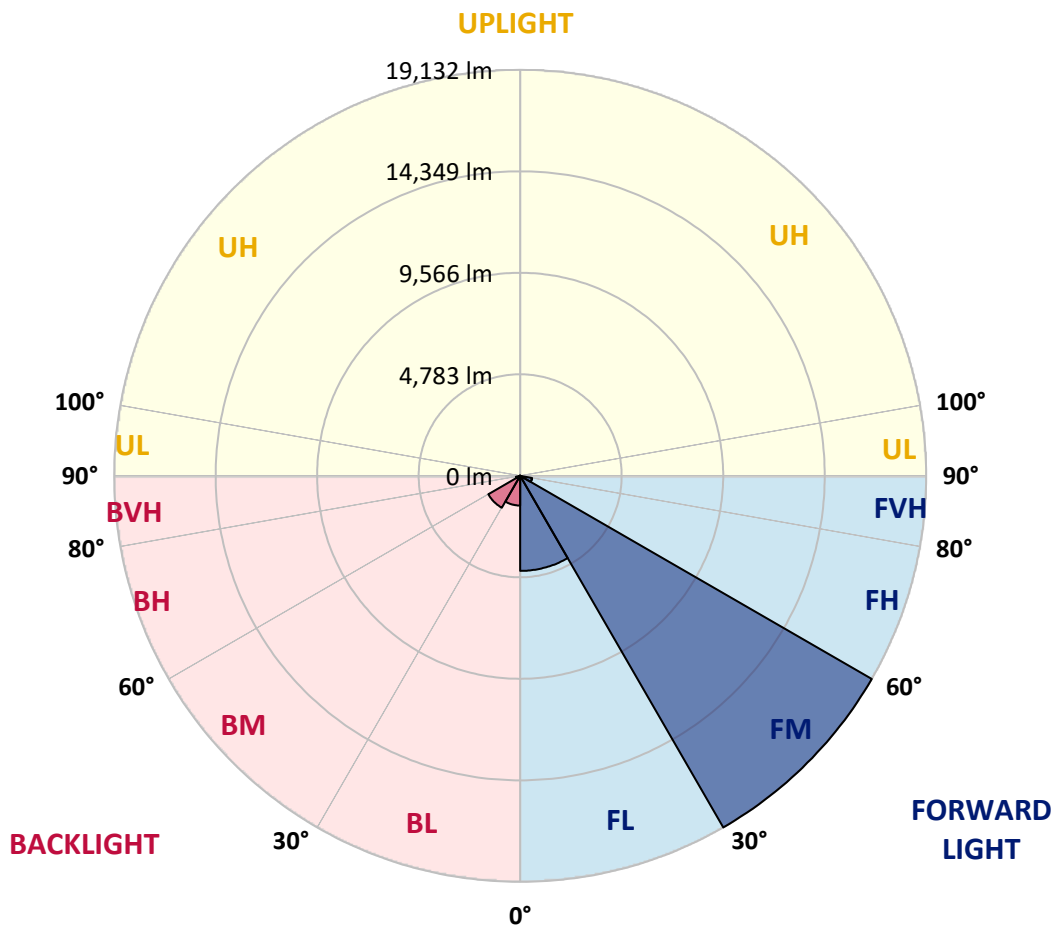
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4478.9	16.3			
FM (30°-60°)	19131.5	69.4			
FH (60°-80°)	569.5	2.1			G0/660
FVH (80°-90°)	13.8	0.0			G1/100
BL (0°-30°)	1401.2	5.1	B3/2500		
BM (30°-60°)	1735.4	6.3	B2/2500		
BH (60°-80°)	202.4	0.7	B1/500		G1/500
BVH (80°-90°)	15.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4
2.5°	9642.1	9421.2	9441.3	9296.7	9212.4	9075.8	8891.1	8855.0	8654.2	8381.1	8104.0
5°	10509.5	10457.3	10525.6	10316.7	10324.8	10099.9	9666.2	9674.2	9212.4	8766.6	8336.9
7.5°	10565.7	10445.2	10513.5	10698.2	10806.7	10766.5	10521.5	10308.7	9871.0	9216.4	8589.9
10°	9461.3	9690.3	9762.5	10067.7	10501.5	10959.3	10931.2	10943.2	10577.8	9722.4	8806.8
12.5°	8798.7	8646.1	8891.1	9075.8	9730.4	10617.9	11023.5	11111.9	11140.0	10212.3	9023.6
15°	8497.5	8497.5	8537.7	8589.9	9063.8	9883.0	10710.3	10967.3	11573.7	10854.9	9365.0
17.5°	8686.3	8678.3	8734.5	8626.1	8802.7	9433.2	10421.1	10714.3	12059.6	11485.3	9634.0
20°	9260.6	9288.7	9252.5	8939.3	8951.3	9425.2	10099.9	10561.7	12388.9	12031.5	9991.4
22.5°	10059.7	10075.8	9871.0	9529.6	9429.2	9662.1	10284.6	10638.0	12654.0	12686.1	10099.9
25°	10983.4	10919.1	10878.9	10397.0	10091.8	10292.6	10702.2	10907.1	12818.6	13248.3	10409.1
27.5°	12264.4	12135.9	11890.9	11461.2	11236.4	10951.2	11244.4	11581.7	13288.5	14035.4	10746.4
30°	14155.9	14043.4	13565.6	13011.4	12421.0	12139.9	12232.3	12417.0	14135.8	14947.0	11192.2
32.5°	17003.1	16766.2	16075.5	15019.3	14216.1	13441.1	13417.0	13613.7	14894.8	16208.0	11722.3
35°	20139.5	20067.2	19051.2	17962.9	16408.8	15212.1	15232.1	15336.5	16348.5	17862.5	12417.0
37.5°	22223.7	22621.3	21974.7	20806.1	19501.0	17790.2	17356.5	17392.7	18344.4	19822.3	13670.0
40°	23834.1	23496.8	23573.1	23300.0	22408.5	21243.9	20284.1	20095.3	20653.5	21990.8	14914.9
42.5°	23131.3	23147.4	23617.2	24263.8	24484.7	24400.3	23420.5	23063.0	22629.3	23765.8	16099.6
45°	21147.5	21561.1	22171.5	23882.3	25384.2	26793.8	26601.0	26006.7	23994.7	25171.4	16782.2
47.5°	17983.0	17966.9	18966.9	21191.7	24528.8	27829.9	28705.3	28287.7	24962.5	25014.7	16641.7
48°	16814.4	17103.5	18135.6	20753.9	23986.7	27677.3	28894.1	28368.0	24797.9	24805.9	16521.2
50°	12429.1	12376.9	13661.9	16874.6	21424.6	26006.7	28098.9	28508.5	24793.9	23749.8	15677.9
52.5°	6565.9	6790.8	7726.5	10609.9	15147.8	21284.0	24785.8	25424.4	23918.4	22022.9	14465.1
55°	2791.0	2522.0	3240.8	4790.9	8521.6	14220.1	18183.8	19605.4	20223.8	19488.9	12654.0
57.5°	995.9	1088.3	1252.9	1803.1	3582.1	7782.7	10842.8	11947.2	14011.3	14300.5	8622.0
60°	638.5	650.6	702.8	827.3	1345.3	2999.8	5144.3	6023.8	6959.5	7184.4	4023.9
62.5°	493.9	498.0	522.1	542.1	638.5	1164.6	1931.6	2289.0	2377.4	2044.1	1056.2
65°	413.6	417.6	425.7	425.7	453.8	546.2	674.7	742.9	722.9	714.8	598.4
67.5°	317.3	325.3	341.3	341.3	357.4	333.3	373.5	397.6	449.8	546.2	510.0
70°	249.0	253.0	265.0	273.1	273.1	241.0	269.1	293.2	329.3	405.6	401.6
72.5°	192.8	200.8	208.8	208.8	196.8	164.6	192.8	212.8	236.9	281.1	273.1
75°	148.6	148.6	152.6	124.5	96.4	84.3	116.5	140.6	176.7	184.7	152.6
77.5°	40.2	44.2	40.2	36.1	40.2	60.2	76.3	88.3	112.4	112.4	100.4
80°	0.0	4.0	12.0	24.1	40.2	56.2	68.3	76.3	88.3	96.4	92.4
82.5°	0.0	4.0	12.0	24.1	36.1	44.2	60.2	64.3	72.3	84.3	84.3
85°	0.0	4.0	8.0	16.1	24.1	28.1	28.1	24.1	24.1	20.1	16.1
87.5°	0.0	0.0	4.0	8.0	8.0	12.0	12.0	12.0	12.0	12.0	12.0
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°	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4	7955.4
2.5°	7995.6	7871.1	7682.3	7385.2	7100.0	6915.3	6738.6	6541.8	6433.4	6425.4	6365.1
5°	8091.9	7810.8	7361.1	6851.0	6304.9	5835.0	5361.2	5051.9	4774.8	4622.2	4594.1
7.5°	8144.1	7778.7	7051.8	6196.5	5264.8	4497.8	3967.7	3578.1	3425.5	3313.1	3309.1
10°	8252.6	7722.5	6590.0	5329.0	4176.5	3401.4	3036.0	2859.3	2775.0	2742.8	2694.6
12.5°	8332.9	7618.1	6116.1	4437.5	3301.0	2819.1	2658.5	2618.3	2622.4	2638.4	2618.3
15°	8445.3	7525.7	5477.6	3642.4	2770.9	2538.0	2538.0	2546.1	2602.3	2610.3	2606.3
17.5°	8437.3	7345.0	4819.0	2999.8	2449.7	2417.5	2429.6	2505.9	2542.0	2554.1	2526.0
20°	8533.7	7176.3	4140.3	2562.1	2269.0	2317.1	2397.5	2417.5	2461.7	2469.7	2437.6
22.5°	8505.6	6754.7	3509.9	2216.8	2132.4	2224.8	2305.1	2329.2	2317.1	2293.1	2289.0
25°	8453.4	6393.2	2931.6	1987.8	2032.0	2132.4	2208.7	2164.5	2140.4	2144.5	2148.5
27.5°	8361.0	5935.4	2453.7	1827.2	1895.5	2044.1	2040.1	2024.0	2048.1	2028.0	2048.1
30°	8344.9	5477.6	2060.1	1682.6	1795.1	1903.5	1911.5	1939.7	1967.8	1931.6	1967.8
32.5°	8369.0	4975.6	1779.0	1594.3	1734.8	1738.9	1827.2	1855.3	1835.2	1754.9	1763.0
35°	8553.8	4590.1	1574.2	1546.1	1638.5	1642.5	1726.8	1690.7	1602.3	1554.1	1582.2
37.5°	8943.3	4268.9	1477.8	1501.9	1510.0	1562.2	1566.2	1493.9	1501.9	1497.9	1514.0
40°	9441.3	4023.9	1409.6	1461.8	1453.7	1489.9	1345.3	1385.5	1421.6	1433.7	1441.7
42.5°	9782.6	3847.2	1365.4	1397.5	1381.5	1317.2	1236.9	1277.0	1305.2	1349.3	1357.4
45°	9935.2	3706.6	1313.2	1285.1	1285.1	1168.6	1136.5	1144.5	1208.8	1257.0	1248.9
47.5°	9686.2	3570.1	1220.8	1136.5	1164.6	1068.2	1032.1	1032.1	1100.3	1160.6	1148.5
48°	9589.9	3513.9	1224.8	1104.4	1124.4	1052.2	1016.0	1008.0	1084.3	1140.5	1140.5
50°	9112.0	3305.0	1120.4	1016.0	975.9	967.8	943.7	951.8	999.9	1052.2	1052.2
52.5°	8180.3	2855.3	947.7	871.4	799.2	847.3	859.4	843.3	867.4	915.6	911.6
55°	6827.0	2192.7	759.0	722.9	666.6	718.8	742.9	722.9	698.8	734.9	734.9
57.5°	4373.3	1180.7	606.4	614.4	558.2	610.4	630.5	582.3	538.1	566.2	562.2
60°	1971.8	706.8	498.0	485.9	449.8	510.0	542.1	485.9	425.7	445.8	465.8
62.5°	738.9	502.0	377.5	369.5	361.4	417.6	433.7	389.5	329.3	341.3	345.4
65°	542.1	441.7	301.2	273.1	289.1	329.3	321.3	277.1	236.9	236.9	245.0
67.5°	461.8	385.5	245.0	212.8	212.8	216.9	200.8	176.7	164.6	172.7	180.7
70°	361.4	305.2	192.8	164.6	148.6	132.5	116.5	112.4	100.4	112.4	108.4
72.5°	232.9	204.8	148.6	124.5	112.4	92.4	76.3	72.3	60.2	56.2	56.2
75°	124.5	124.5	116.5	100.4	88.3	72.3	60.2	48.2	32.1	24.1	24.1
77.5°	88.3	96.4	104.4	96.4	80.3	60.2	48.2	32.1	16.1	8.0	8.0
80°	84.3	96.4	104.4	92.4	80.3	60.2	44.2	24.1	12.0	4.0	4.0
82.5°	76.3	88.3	96.4	84.3	72.3	52.2	40.2	24.1	12.0	4.0	4.0
85°	16.1	20.1	24.1	24.1	28.1	36.1	28.1	20.1	8.0	4.0	4.0
87.5°	12.0	12.0	12.0	12.0	12.0	12.0	8.0	8.0	4.0	4.0	4.0
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)