

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: P451527

Luminaire Tested: **GALN-SA2B-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7450 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

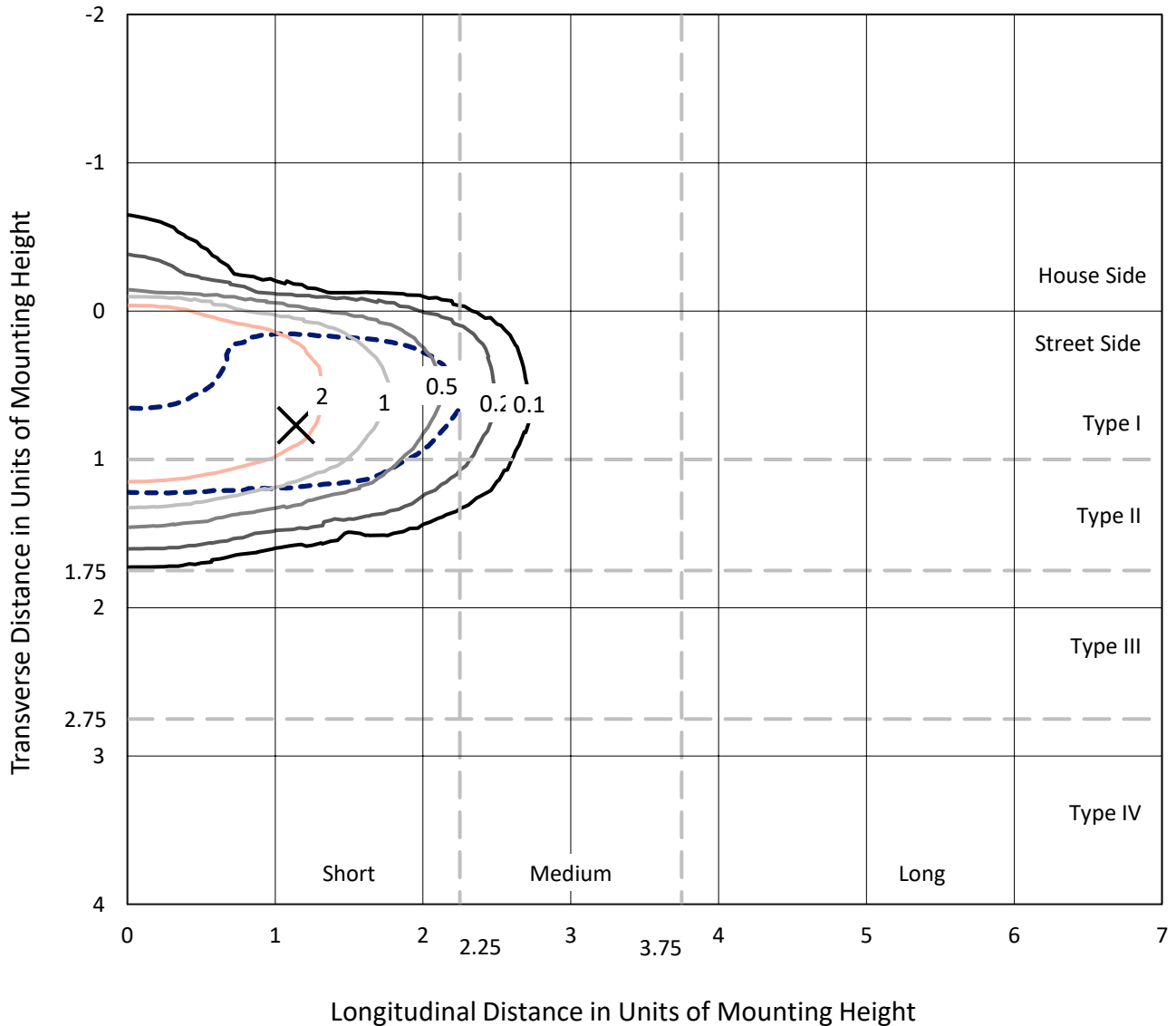
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

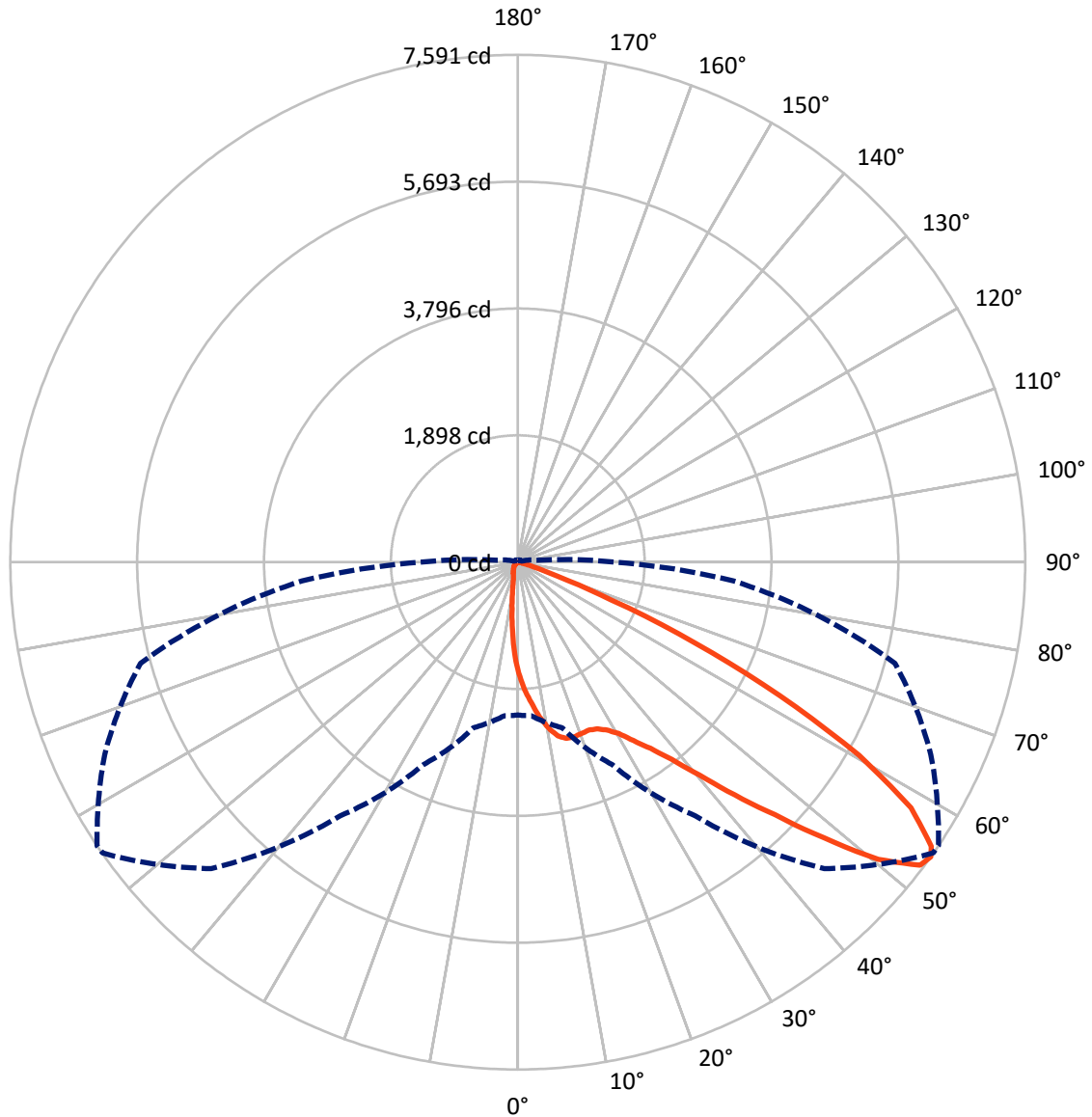
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	352.3	0.0	352.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	7097.7	0.0	7097.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	7450.0	0.0	7450.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	2.0
10°-20°	395.4	5.3
20°-30°	684.8	9.2
30°-40°	1182.0	15.9
40°-50°	2011.9	27.0
50°-60°	1991.0	26.7
60°-70°	908.7	12.2
70°-80°	116.7	1.6
80°-90°	13.1	0.2
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°	7450.0	100.0
0°-180°	7450.0	100.0



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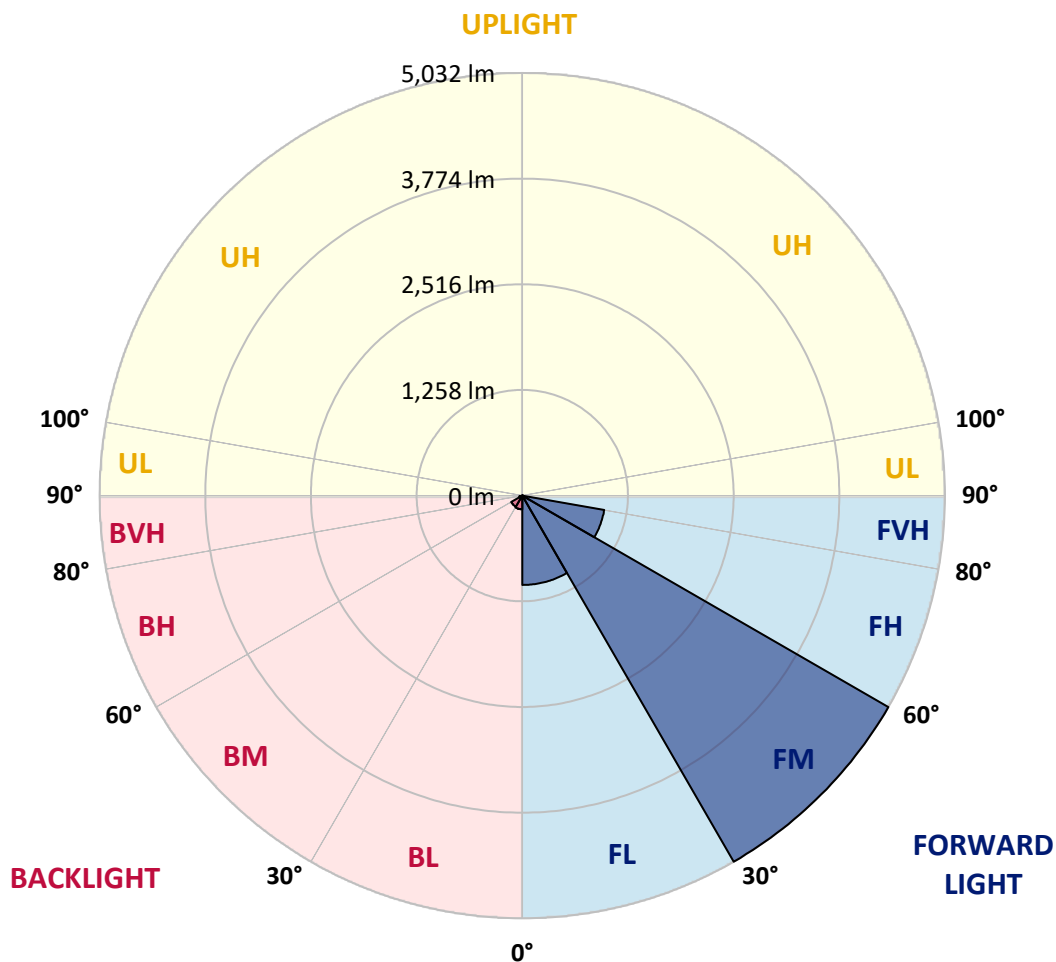
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.5	14.3			
FM (30°-60°)	5032.3	67.5			
FH (60°-80°)	990.2	13.3			G1/1800
FVH (80°-90°)	11.7	0.2			G1/100
BL (0°-30°)	162.9	2.2	B1/500		
BM (30°-60°)	152.7	2.0	B0/220		
BH (60°-80°)	35.3	0.5	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2
2.5°	2103.5	2088.9	2068.8	2053.3	2016.6	1963.8	1908.0	1908.0	1854.2	1779.3	1702.9
5°	2426.2	2416.7	2397.1	2356.9	2315.6	2241.8	2129.7	2110.1	2014.1	1878.3	1735.6
7.5°	2557.4	2561.9	2562.9	2552.4	2532.8	2459.9	2348.8	2335.2	2181.9	2000.0	1778.3
10°	2431.7	2453.9	2475.5	2519.2	2581.0	2598.6	2535.8	2521.7	2370.9	2123.1	1824.6
12.5°	2244.8	2256.8	2268.9	2337.8	2461.9	2604.2	2670.0	2669.5	2541.8	2245.8	1883.4
15°	2157.8	2168.4	2169.4	2200.0	2307.6	2514.7	2727.3	2734.8	2708.7	2397.1	1946.7
17.5°	2175.9	2184.5	2177.4	2185.0	2241.2	2416.2	2720.8	2745.9	2843.9	2542.3	2004.0
20°	2294.0	2310.6	2283.5	2262.4	2279.4	2390.0	2698.6	2733.8	2939.4	2684.1	2056.3
22.5°	2506.1	2515.2	2481.0	2423.2	2393.0	2444.8	2692.6	2727.3	3020.8	2800.2	2086.4
25°	2741.9	2738.9	2701.2	2636.3	2573.0	2555.4	2732.3	2763.5	3088.2	2904.7	2095.5
27.5°	2977.6	2986.7	2923.3	2842.9	2767.0	2721.3	2821.3	2844.4	3164.1	3023.8	2106.5
30°	3251.5	3237.0	3174.6	3082.7	2995.7	2931.9	2964.5	2971.1	3268.6	3181.7	2135.7
32.5°	3607.9	3567.7	3497.8	3337.0	3274.7	3166.6	3174.6	3182.7	3395.8	3338.0	2170.9
35°	4091.4	4089.4	3952.7	3736.1	3584.3	3450.1	3414.9	3421.4	3588.3	3570.2	2248.8
37.5°	4673.5	4681.5	4525.7	4307.6	4028.1	3815.0	3742.6	3743.6	3880.8	3890.9	2367.4
40°	5147.5	5168.6	5075.6	4928.3	4652.4	4319.1	4197.5	4186.4	4292.0	4279.4	2536.8
42.5°	5351.6	5371.2	5405.8	5457.1	5305.3	5030.4	4743.4	4758.4	4790.6	4702.6	2726.8
45°	5251.5	5282.7	5418.9	5735.6	5878.3	5785.8	5443.5	5390.8	5254.5	5162.6	2917.8
47.5°	4834.8	4910.7	5138.4	5665.7	6165.3	6478.0	6233.7	6163.8	5719.0	5498.3	3039.4
50°	4149.8	4154.3	4471.4	5145.5	6016.5	6914.7	7040.4	6988.1	6151.7	5686.8	3100.8
52.5°	3008.3	3107.3	3397.8	4178.4	5372.2	6848.4	7554.6	7533.0	6598.1	5783.3	3189.2
54°	2287.0	2306.1	2564.4	3339.0	4631.8	6484.0	7586.3	7591.3	6819.7	5841.6	3241.5
55°	1874.8	1829.1	2100.5	2844.4	4126.6	6161.8	7482.7	7506.8	6919.3	5871.8	3280.2
57.5°	888.7	889.2	1096.7	1500.4	2584.5	4784.6	6849.9	6935.4	6930.3	5923.5	3399.3
60°	449.9	452.9	498.6	692.6	1276.7	3180.7	5663.7	5867.3	6397.0	5931.1	3438.5
62.5°	314.6	311.1	303.6	333.2	537.3	1616.5	4216.6	4393.5	5435.0	5644.1	3313.9
65°	269.4	261.9	240.8	236.2	271.4	643.9	2626.3	2914.8	4149.8	4887.1	2959.0
67.5°	230.2	227.2	208.1	196.5	192.0	280.5	1355.1	1506.9	2836.4	3512.9	2241.2
70°	195.5	194.0	182.5	167.9	155.3	167.9	502.6	622.8	1580.8	1891.4	1057.5
72.5°	158.8	160.3	162.4	143.8	130.7	119.1	214.6	249.8	661.5	676.0	369.9
75°	139.2	137.7	137.7	125.2	109.1	88.5	118.1	127.2	202.6	188.0	86.0
77.5°	98.0	94.5	110.6	103.0	91.0	62.8	67.4	71.4	83.9	71.9	40.2
80°	67.9	67.9	70.9	92.5	81.9	45.7	41.2	44.2	49.8	42.7	23.1
82.5°	38.2	39.2	46.2	49.3	47.8	30.7	27.1	27.6	33.2	29.2	14.6
85°	4.5	7.5	26.6	26.1	19.6	13.6	15.1	15.6	20.6	18.1	8.5
87.5°	0.5	1.0	5.5	7.0	5.0	5.5	5.5	5.5	7.0	8.0	6.0
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°	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2
2.5°	1661.7	1623.5	1532.5	1427.0	1359.6	1250.1	1157.6	1090.7	1074.1	1042.0	1051.5
5°	1659.7	1580.3	1394.8	1198.8	989.7	833.9	717.8	626.3	586.1	559.4	540.8
7.5°	1660.7	1536.6	1239.0	926.9	677.0	524.2	416.7	360.9	323.7	308.1	310.1
10°	1663.7	1487.3	1058.0	686.6	456.9	338.8	272.9	246.3	233.7	231.7	231.2
12.5°	1670.8	1433.5	885.1	509.7	319.7	246.3	221.2	212.1	208.1	208.1	206.6
15°	1678.3	1374.2	741.4	379.0	246.3	211.6	200.0	195.5	193.0	193.0	192.5
17.5°	1678.3	1305.8	607.2	294.0	212.1	194.5	185.5	179.4	177.4	177.4	176.9
20°	1667.7	1226.4	488.1	236.7	192.5	178.4	169.4	162.9	160.3	159.3	158.8
22.5°	1631.0	1120.4	388.5	203.6	176.4	164.4	152.8	145.3	143.3	142.2	142.7
25°	1565.7	1000.7	307.6	178.9	161.8	147.3	137.2	131.7	129.7	129.7	130.2
27.5°	1498.4	875.6	243.8	160.3	144.3	131.2	123.1	119.6	119.1	120.6	121.1
30°	1436.0	749.9	197.5	145.3	128.7	117.6	112.1	111.1	111.1	111.6	112.1
32.5°	1366.7	639.9	165.4	132.2	116.1	106.6	103.5	103.5	104.5	104.5	105.6
35°	1322.9	545.4	145.3	119.6	106.6	98.5	96.5	97.0	98.5	100.5	101.5
37.5°	1299.3	470.0	132.2	109.6	97.5	92.0	90.0	91.0	94.5	98.0	98.5
40°	1301.3	413.2	121.6	101.0	90.5	84.4	82.9	86.0	89.5	93.0	93.5
42.5°	1323.4	370.9	111.6	91.0	84.4	75.9	75.4	78.4	79.9	83.4	83.9
45°	1349.6	340.3	101.0	80.4	73.4	65.8	66.3	68.9	70.9	76.4	77.4
47.5°	1357.6	319.2	89.0	68.4	60.3	57.8	58.3	59.8	63.8	68.9	69.4
50°	1366.7	306.1	77.4	57.8	51.3	50.8	51.3	52.3	54.8	56.8	56.3
52.5°	1405.4	305.6	67.9	50.3	43.7	44.7	45.2	44.7	42.7	39.7	38.7
54°	1441.6	307.1	63.3	46.7	40.2	41.7	41.2	38.7	33.7	30.7	29.2
55°	1470.7	308.6	60.8	44.2	38.2	38.7	39.2	34.2	27.6	24.6	23.6
57.5°	1528.0	305.1	54.8	38.7	33.7	31.7	31.2	22.6	15.1	13.1	12.1
60°	1499.4	275.4	49.8	33.2	28.7	25.6	21.1	12.6	7.5	5.5	5.5
62.5°	1386.8	233.7	44.2	27.1	23.6	19.6	11.1	7.0	3.5	2.0	1.5
65°	1240.5	196.5	39.7	21.6	18.6	12.6	6.0	4.5	1.5	0.0	0.0
67.5°	922.3	145.8	33.7	17.1	14.1	8.0	4.0	2.5	0.5	0.0	0.0
70°	427.2	89.0	28.7	13.1	10.1	6.0	3.0	1.5	0.0	0.0	0.0
72.5°	122.6	55.8	23.6	9.6	7.0	5.0	2.5	1.0	0.5	0.0	0.0
75°	42.7	44.7	17.6	7.0	5.5	3.5	2.0	1.0	0.5	0.0	0.0
77.5°	25.6	36.2	11.1	6.0	4.5	3.0	2.0	1.0	0.5	0.5	0.0
80°	14.6	24.1	7.0	5.0	4.0	2.5	1.5	1.0	0.5	0.5	0.0
82.5°	8.0	11.6	5.5	4.5	3.5	2.5	1.5	1.0	0.5	0.5	0.5
85°	6.5	6.0	4.5	4.0	3.0	2.0	1.5	0.5	0.0	0.0	0.0
87.5°	5.0	4.0	4.0	4.0	3.0	2.0	1.5	0.5	0.0	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)