

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: P454190

Luminaire Tested: **GALN-SA5B-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18773 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

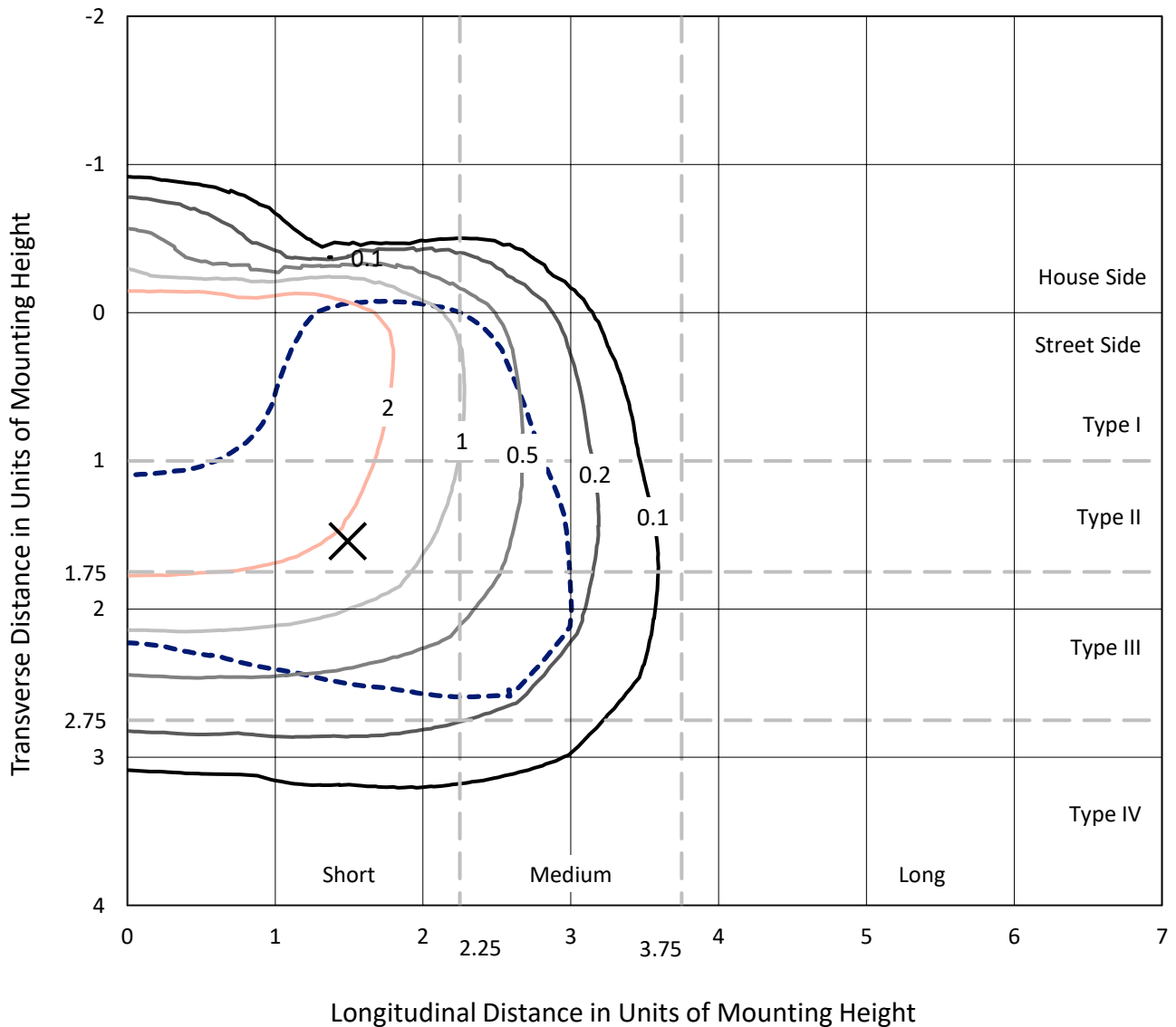
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

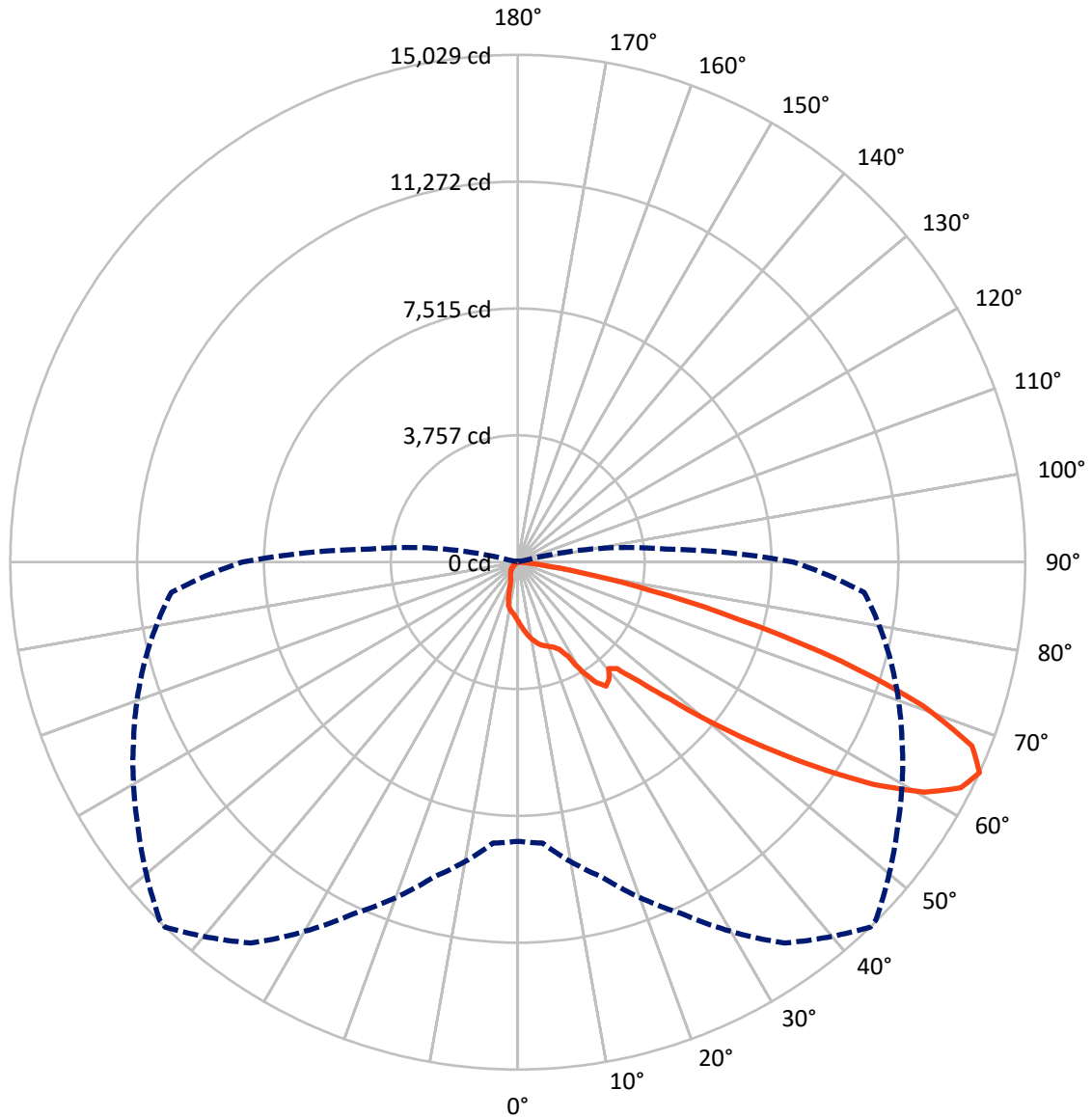
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.6	0.0	1729.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	17043.4	0.0	17043.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	18773.0	0.0	18773.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	0.9
10°-20°	523.0	2.8
20°-30°	886.8	4.7
30°-40°	1474.5	7.9
40°-50°	2574.6	13.7
50°-60°	5029.8	26.8
60°-70°	5835.7	31.1
70°-80°	2125.1	11.3
80°-90°	149.7	0.8
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°	18773.0	100.0
0°-180°	18773.0	100.0



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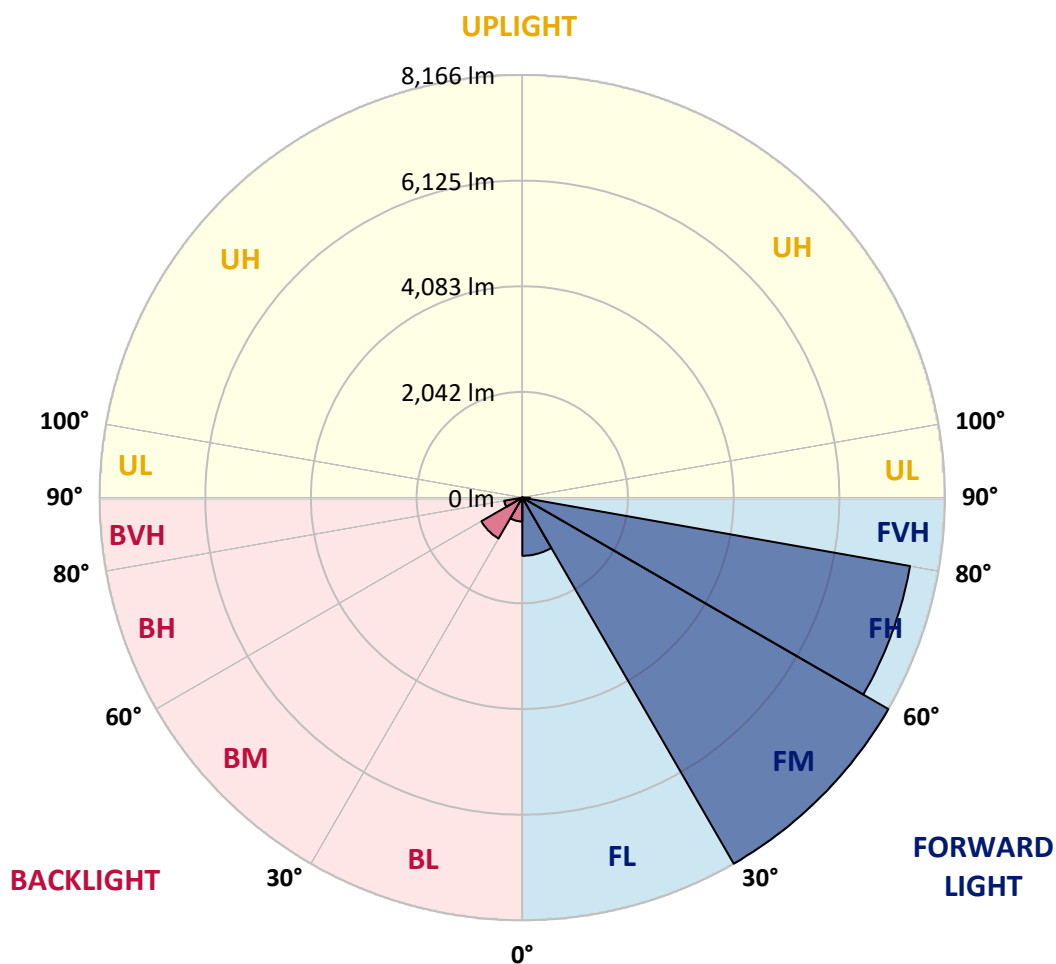
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.8	6.0			
FM (30°-60°)	8166.3	43.5			
FH (60°-80°)	7606.6	40.5			G4/12000
FVH (80°-90°)	147.7	0.8			G2/225
BL (0°-30°)	460.8	2.5	B1/500		
BM (30°-60°)	912.6	4.9	B1/1000		
BH (60°-80°)	354.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2
2.5°	1966.7	1958.1	1953.8	1930.8	1913.6	1892.1	1892.1	1864.8	1833.3	1798.8	1767.3
5°	2186.2	2171.8	2153.2	2133.1	2092.9	2035.5	2035.5	1978.2	1912.2	1853.4	1788.8
7.5°	2397.0	2384.1	2352.6	2313.8	2247.8	2187.6	2183.3	2100.1	2021.2	1932.3	1840.4
10°	2582.1	2572.0	2544.8	2470.2	2401.3	2322.4	2321.0	2227.8	2136.0	2026.9	1913.6
12.5°	2711.2	2712.6	2676.8	2605.0	2516.1	2441.5	2435.8	2344.0	2247.8	2130.2	1991.1
15°	2803.0	2803.0	2765.7	2685.4	2605.0	2539.0	2533.3	2453.0	2354.0	2226.3	2075.7
17.5°	2828.8	2837.4	2797.3	2725.5	2661.0	2603.6	2602.2	2534.7	2455.8	2332.5	2161.8
20°	2818.8	2827.4	2795.8	2739.9	2695.4	2662.4	2658.1	2630.9	2557.7	2441.5	2253.6
22.5°	2797.3	2805.9	2782.9	2749.9	2728.4	2738.4	2731.3	2754.2	2715.5	2574.9	2362.6
25°	2801.6	2810.2	2792.9	2774.3	2792.9	2854.6	2873.3	2972.3	2937.8	2744.2	2480.2
27.5°	2936.4	2953.6	2929.2	2937.8	3003.8	3147.3	3183.1	3353.8	3201.8	2959.3	2663.8
30°	3236.2	3224.7	3178.8	3220.4	3449.9	3754.1	3744.0	3716.8	3478.6	3207.5	2881.9
32.5°	3508.8	3498.7	3495.8	3675.2	4091.2	4238.9	4231.7	3967.8	3726.8	3491.5	3097.1
35°	3619.2	3580.5	3571.9	4006.5	4702.3	4507.2	4462.7	4071.1	4028.0	3801.4	3316.5
37.5°	3952.0	3924.8	3791.4	4061.0	4458.4	4393.8	4359.4	4249.0	4349.4	4075.4	3564.7
40°	4637.7	4561.7	4441.2	4177.2	4112.7	4139.9	4174.4	4477.0	4729.5	4449.8	3896.1
42.5°	5489.8	5472.6	5248.8	4756.8	4273.3	4310.6	4355.1	4953.3	5276.0	5013.5	4436.9
45°	6512.6	6537.0	6214.2	5633.2	4999.2	5030.7	5095.3	5656.2	6016.2	5890.0	5287.5
47.5°	7442.1	7423.5	7314.5	6710.5	6125.3	6055.0	6159.7	6558.5	7040.5	7060.6	6343.3
50°	8377.4	8476.4	8314.3	8077.6	7643.0	7495.2	7456.5	7651.6	8386.0	8289.9	7611.4
52.5°	9721.5	9773.2	9469.1	9408.8	9507.8	9028.7	8989.9	9037.3	9694.3	9364.3	8561.0
55°	10566.4	10536.3	10423.0	10893.5	11285.1	10686.9	10638.2	10447.4	10780.2	10123.2	9474.8
57.5°	10833.3	10876.3	11140.2	11990.9	12917.6	12409.8	12320.8	11778.6	11563.4	10830.4	10315.4
60°	10714.2	10793.1	11362.6	12627.8	13913.1	13837.1	13761.0	12850.1	12125.7	11421.4	10905.0
62.5°	9866.4	9976.9	10887.8	12514.5	14250.2	14725.0	14630.3	13518.6	12500.1	11708.3	11008.3
65°	8268.4	8350.2	9658.4	11485.9	13771.1	15029.1	14994.7	13728.1	12558.9	11445.8	10301.1
67.5°	5894.3	6172.6	7384.7	9679.9	12353.8	14509.8	14568.7	13477.0	12006.7	10311.1	8530.9
70°	3705.3	3894.6	4763.9	6930.0	9903.7	12729.6	12923.3	12328.0	10420.1	8037.4	5710.7
72.5°	1767.3	1907.9	2527.6	4386.7	6990.3	10015.6	10169.1	10120.3	8057.5	5063.7	2946.4
75°	787.5	840.6	1206.4	2239.2	4512.9	6732.1	7129.4	7195.4	5035.1	2477.4	1146.2
77.5°	401.7	403.1	565.2	1084.5	2253.6	4016.6	4095.5	4326.4	2729.8	1091.6	398.8
80°	213.7	228.1	299.8	512.1	1169.1	1978.2	1968.1	2163.2	1210.7	535.1	133.4
82.5°	96.1	106.2	169.3	268.2	570.9	750.2	809.1	885.1	519.3	341.4	58.8
85°	28.7	34.4	83.2	134.8	206.6	216.6	242.4	312.7	294.1	242.4	30.1
87.5°	4.3	4.3	34.4	37.3	30.1	38.7	40.2	44.5	94.7	88.9	15.8
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°	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2	1747.2
2.5°	1750.1	1740.0	1704.2	1674.0	1648.2	1632.4	1613.8	1602.3	1596.6	1592.3	1593.7
5°	1757.2	1732.9	1671.2	1622.4	1585.1	1544.9	1517.7	1501.9	1494.7	1483.3	1483.3
7.5°	1797.4	1758.7	1672.6	1598.0	1533.5	1479.0	1427.3	1408.7	1395.8	1392.9	1390.0
10°	1854.8	1806.0	1688.4	1585.1	1493.3	1418.7	1345.5	1281.0	1230.8	1200.7	1196.4
12.5°	1926.5	1856.2	1712.8	1576.5	1458.9	1326.9	1133.2	1002.7	915.2	887.9	892.3
15°	1992.5	1916.5	1737.2	1569.3	1395.8	1100.3	880.8	731.6	687.1	682.8	684.3
17.5°	2071.4	1981.0	1765.9	1559.3	1222.2	840.6	654.1	614.0	622.6	636.9	635.5
20°	2153.2	2049.9	1800.3	1499.0	975.5	632.6	578.1	582.4	595.3	608.2	611.1
22.5°	2240.7	2128.8	1840.4	1354.2	744.5	550.8	548.0	553.7	566.6	581.0	583.8
25°	2361.2	2227.8	1870.6	1164.8	563.8	509.2	515.0	525.0	536.5	552.3	555.1
27.5°	2516.1	2361.2	1886.4	918.1	487.7	471.9	473.4	487.7	502.1	516.4	516.4
30°	2716.9	2520.4	1854.8	694.3	450.4	436.1	430.3	439.0	457.6	471.9	473.4
32.5°	2896.2	2671.0	1771.6	530.8	423.2	403.1	388.7	390.2	397.4	406.0	407.4
35°	3075.5	2817.3	1629.6	446.1	394.5	371.5	350.0	338.5	332.8	328.5	332.8
37.5°	3305.1	2999.5	1440.2	406.0	370.1	341.4	311.3	286.9	266.8	253.9	256.8
40°	3600.6	3252.0	1216.4	380.1	347.1	312.7	272.6	241.0	206.6	195.1	189.4
42.5°	4088.3	3635.0	981.2	358.6	324.2	282.6	232.4	189.4	157.8	146.3	149.2
45°	4858.6	4118.4	756.0	335.7	301.2	249.6	195.1	149.2	123.4	117.6	120.5
47.5°	5880.0	4743.9	582.4	309.8	272.6	213.7	153.5	117.6	101.8	100.4	99.0
50°	6841.1	5326.3	486.3	281.2	238.1	177.9	126.2	99.0	88.9	87.5	87.5
52.5°	7710.4	5743.7	395.9	248.2	200.8	146.3	106.2	87.5	78.9	74.6	74.6
55°	8483.6	6016.2	321.3	208.0	157.8	116.2	91.8	78.9	68.9	63.1	61.7
57.5°	9067.4	6049.2	241.0	166.4	117.6	90.4	78.9	68.9	57.4	50.2	47.3
60°	9317.0	5763.8	177.9	126.2	87.5	71.7	63.1	55.9	43.0	35.9	34.4
62.5°	9066.0	5208.6	132.0	96.1	67.4	53.1	44.5	41.6	30.1	21.5	20.1
65°	8166.5	4406.7	104.7	73.2	50.2	38.7	28.7	27.3	18.6	10.0	8.6
67.5°	6542.7	3451.4	83.2	54.5	35.9	25.8	18.6	17.2	10.0	2.9	2.9
70°	4254.7	2206.2	67.4	40.2	23.0	17.2	11.5	8.6	5.7	1.4	0.0
72.5°	2104.4	1031.4	54.5	31.6	15.8	8.6	4.3	2.9	4.3	0.0	0.0
75°	816.2	367.2	40.2	21.5	8.6	4.3	2.9	0.0	1.4	0.0	0.0
77.5°	271.1	121.9	24.4	11.5	5.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	100.4	47.3	12.9	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	40.2	18.6	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.1	11.5	5.7	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	8.6	5.7	4.3	2.9	1.4	0.0	0.0	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)