

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: P459033

Luminaire Tested: **GALN-SA5B-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459033
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-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 19203 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G4

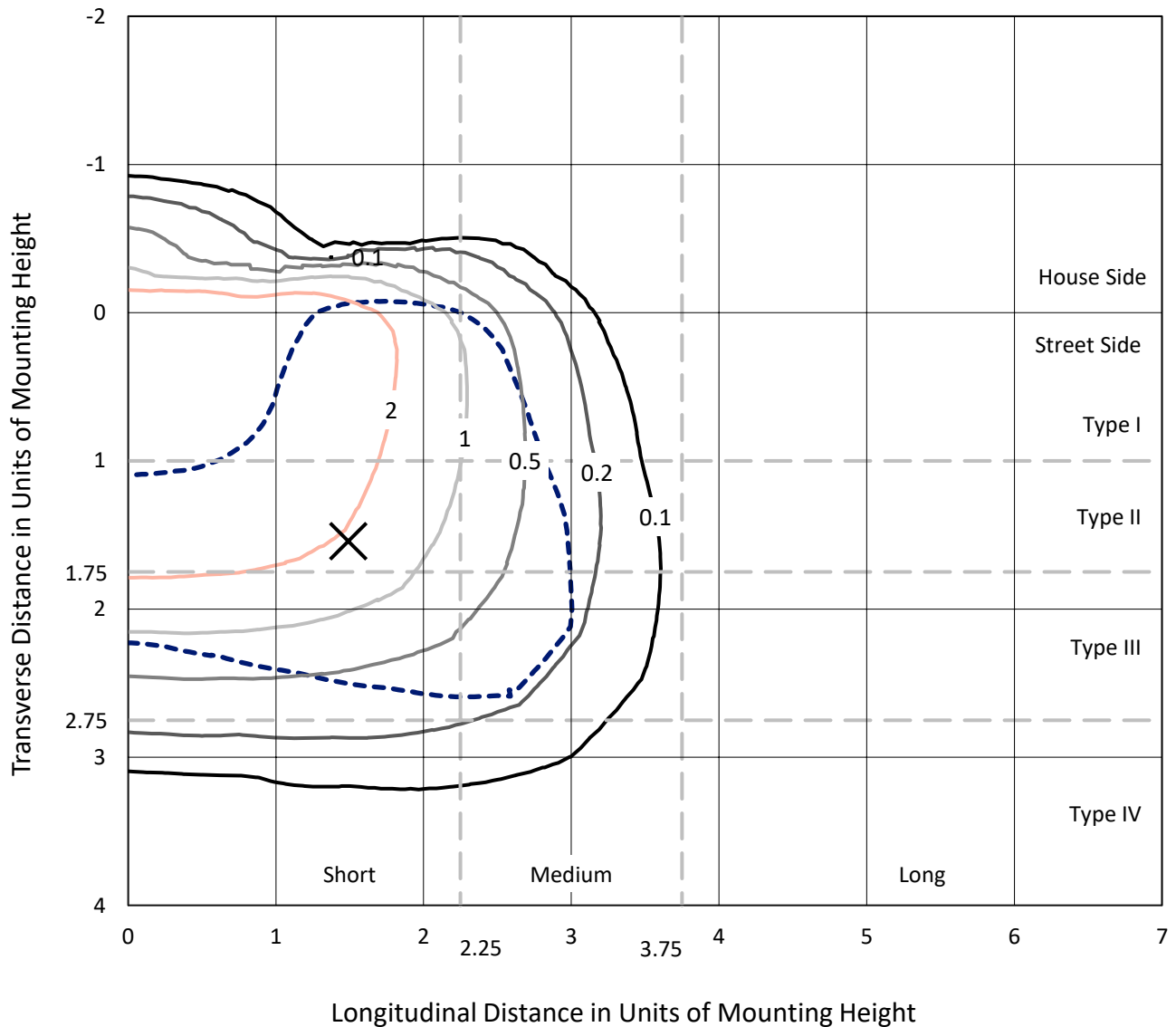
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

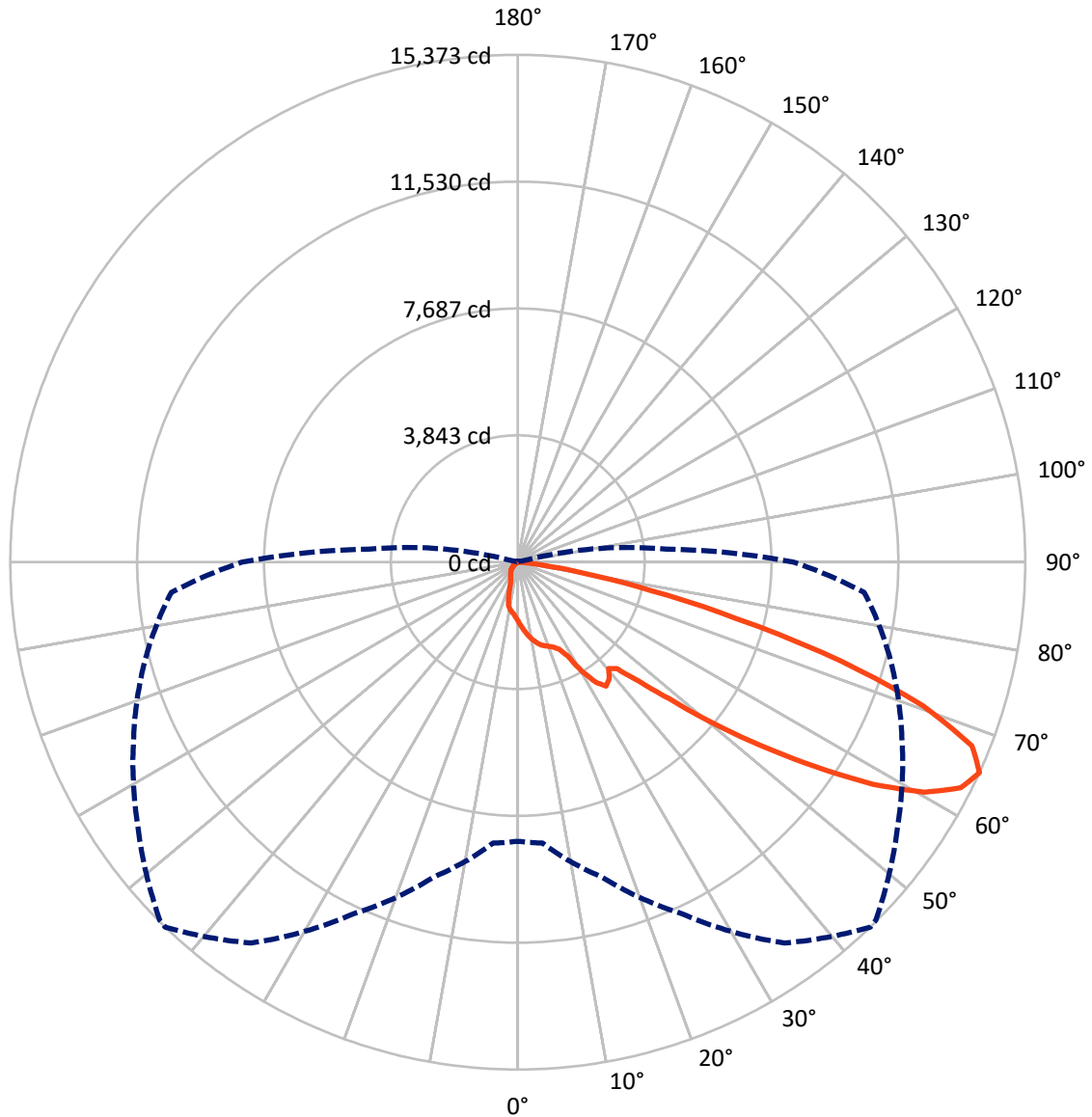
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1769.3	0.0	1769.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	17433.7	0.0	17433.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	19203.0	0.0	19203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	0.9
10°-20°	535.0	2.8
20°-30°	907.2	4.7
30°-40°	1508.3	7.9
40°-50°	2633.5	13.7
50°-60°	5145.0	26.8
60°-70°	5969.4	31.1
70°-80°	2173.7	11.3
80°-90°	153.2	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°	19203.0	100.0
0°-180°	19203.0	100.0

Coefficient of Utilization



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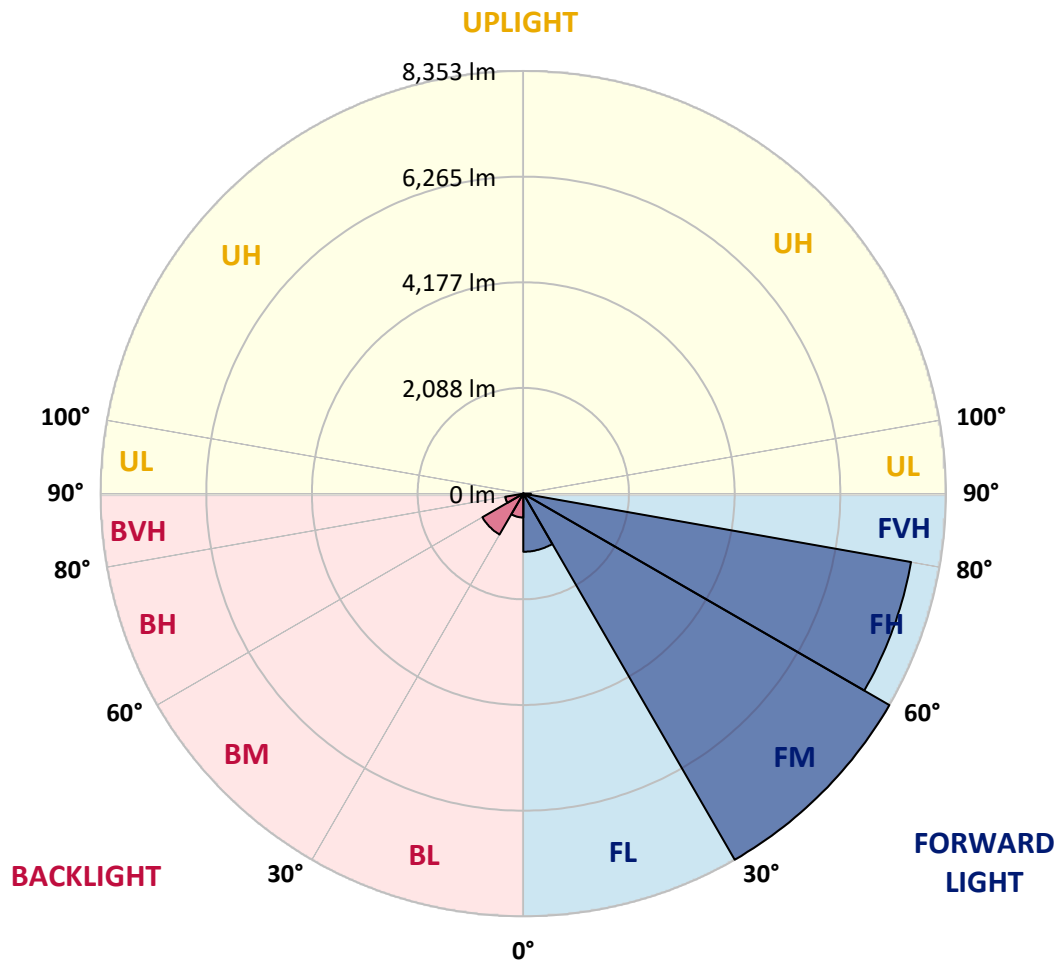
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.5	6.0			
FM (30°-60°)	8353.3	43.5			
FH (60°-80°)	7780.8	40.5			G4/12000
FVH (80°-90°)	151.1	0.8			G2/225
BL (0°-30°)	471.4	2.5	B1/500		
BM (30°-60°)	933.5	4.9	B1/1000		
BH (60°-80°)	362.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2
2.5°	2011.7	2002.9	1998.5	1975.0	1957.4	1935.4	1935.4	1907.5	1875.3	1840.1	1807.8
5°	2236.2	2221.6	2202.5	2181.9	2140.9	2082.2	2082.2	2023.5	1956.0	1895.8	1829.8
7.5°	2451.9	2438.7	2406.4	2366.8	2299.3	2237.7	2233.3	2148.2	2067.5	1976.5	1882.6
10°	2641.2	2631.0	2603.1	2526.8	2456.3	2375.6	2374.2	2278.8	2184.9	2073.4	1957.4
12.5°	2773.3	2774.8	2738.1	2664.7	2573.7	2497.4	2491.6	2397.6	2299.3	2179.0	2036.7
15°	2867.2	2867.2	2829.0	2746.9	2664.7	2597.2	2591.3	2509.2	2407.9	2277.3	2123.2
17.5°	2893.6	2902.4	2861.3	2788.0	2721.9	2663.2	2661.8	2592.8	2512.1	2385.9	2211.3
20°	2883.3	2892.1	2859.9	2802.6	2757.1	2723.4	2719.0	2691.1	2616.3	2497.4	2305.2
22.5°	2861.3	2870.1	2846.6	2812.9	2790.9	2801.2	2793.8	2817.3	2777.7	2633.9	2416.7
25°	2865.7	2874.5	2856.9	2837.8	2856.9	2920.0	2939.1	3040.3	3005.1	2807.0	2537.0
27.5°	3003.7	3021.3	2996.3	3005.1	3072.6	3219.4	3256.0	3430.7	3275.1	3027.1	2724.9
30°	3310.3	3298.6	3251.6	3294.2	3529.0	3840.0	3829.8	3801.9	3558.3	3281.0	2947.9
32.5°	3589.1	3578.9	3575.9	3759.3	4184.9	4336.0	4328.7	4058.7	3812.2	3571.5	3168.0
35°	3702.1	3662.5	3653.7	4098.3	4810.0	4610.4	4564.9	4164.3	4120.3	3888.5	3392.5
37.5°	4042.5	4014.7	3878.2	4154.1	4560.5	4494.5	4459.3	4346.3	4449.0	4168.7	3646.4
40°	4743.9	4666.2	4542.9	4272.9	4206.9	4234.8	4270.0	4579.6	4837.8	4551.7	3985.3
42.5°	5615.5	5597.9	5369.0	4865.7	4371.2	4409.4	4454.9	5066.7	5396.9	5128.4	4538.5
45°	6661.7	6686.7	6356.5	5762.3	5113.7	5146.0	5212.0	5785.7	6154.0	6024.9	5408.6
47.5°	7612.6	7593.5	7482.0	6864.2	6265.6	6193.7	6300.8	6708.7	7201.7	7222.3	6488.6
50°	8569.3	8670.5	8504.7	8262.6	7818.0	7666.9	7627.3	7826.8	8578.1	8479.8	7785.7
52.5°	9944.2	9997.0	9685.9	9624.3	9725.6	9235.5	9195.9	9244.3	9916.3	9578.8	8757.1
55°	10808.5	10777.7	10661.7	11143.0	11543.6	10931.7	10881.8	10686.7	11027.1	10355.1	9691.8
57.5°	11081.4	11125.4	11395.4	12265.5	13213.4	12694.0	12603.0	12048.4	11828.3	11078.5	10551.7
60°	10959.6	11040.3	11622.8	12917.0	14231.8	14154.0	14076.2	13144.5	12403.5	11683.0	11154.8
62.5°	10092.4	10205.4	11137.2	12801.1	14576.6	15062.3	14965.5	13828.3	12786.4	11976.5	11260.4
65°	8457.8	8541.4	9879.6	11749.0	14086.5	15373.4	15338.2	14042.5	12846.6	11707.9	10537.0
67.5°	6029.3	6314.0	7553.9	9901.6	12636.8	14842.2	14902.4	13785.7	12281.7	10547.3	8726.3
70°	3790.2	3983.8	4873.1	7088.7	10130.6	13021.2	13219.3	12610.4	10658.8	8221.5	5841.5
72.5°	1807.8	1951.6	2585.5	4487.1	7150.4	10245.0	10402.0	10352.1	8242.1	5179.7	3013.9
75°	805.6	859.9	1234.0	2290.5	4616.3	6886.3	7292.7	7360.2	5150.4	2534.1	1172.4
77.5°	410.9	412.3	578.1	1109.3	2305.2	4108.6	4189.3	4425.5	2792.4	1116.6	407.9
80°	218.6	233.3	306.7	523.8	1195.9	2023.5	2013.2	2212.8	1238.4	547.3	136.5
82.5°	98.3	108.6	173.1	274.4	584.0	767.4	827.6	905.4	531.2	349.2	60.2
85°	29.3	35.2	85.1	137.9	211.3	221.6	248.0	319.9	300.8	248.0	30.8
87.5°	4.4	4.4	35.2	38.2	30.8	39.6	41.1	45.5	96.8	91.0	16.1
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°	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2	1787.2
2.5°	1790.2	1779.9	1743.2	1712.4	1686.0	1669.8	1650.8	1639.0	1633.2	1628.8	1630.2
5°	1797.5	1772.6	1709.5	1659.6	1621.4	1580.3	1552.5	1536.3	1529.0	1517.2	1517.2
7.5°	1838.6	1799.0	1710.9	1634.6	1568.6	1512.8	1460.0	1440.9	1427.7	1424.8	1421.9
10°	1897.3	1847.4	1727.1	1621.4	1527.5	1451.2	1376.4	1310.3	1259.0	1228.2	1223.8
12.5°	1970.6	1898.7	1752.0	1612.6	1492.3	1357.3	1159.2	1025.7	936.2	908.3	912.7
15°	2038.1	1960.4	1777.0	1605.3	1427.7	1125.5	901.0	748.3	702.9	698.5	699.9
17.5°	2118.8	2026.4	1806.3	1595.0	1250.2	859.9	669.1	628.0	636.8	651.5	650.0
20°	2202.5	2096.8	1841.5	1533.4	997.8	647.1	591.3	595.7	608.9	622.2	625.1
22.5°	2292.0	2177.5	1882.6	1385.2	761.6	563.5	560.5	566.4	579.6	594.3	597.2
25°	2415.3	2278.8	1913.4	1191.5	576.7	520.9	526.8	537.0	548.8	564.9	567.9
27.5°	2573.7	2415.3	1929.6	939.1	498.9	482.8	484.2	498.9	513.6	528.2	528.2
30°	2779.2	2578.1	1897.3	710.2	460.7	446.1	440.2	449.0	468.1	482.8	484.2
32.5°	2962.6	2732.2	1812.2	542.9	432.9	412.3	397.7	399.1	406.5	415.3	416.7
35°	3146.0	2881.9	1666.9	456.3	403.5	380.0	358.0	346.3	340.4	336.0	340.4
37.5°	3380.8	3068.2	1473.2	415.3	378.6	349.2	318.4	293.5	272.9	259.7	262.7
40°	3683.0	3326.5	1244.3	388.8	355.1	319.9	278.8	246.5	211.3	199.6	193.7
42.5°	4181.9	3718.3	1003.7	366.8	331.6	289.1	237.7	193.7	161.4	149.7	152.6
45°	4969.9	4212.7	773.3	343.4	308.1	255.3	199.6	152.6	126.2	120.3	123.3
47.5°	6014.6	4852.5	595.7	316.9	278.8	218.6	157.0	120.3	104.2	102.7	101.2
50°	6997.8	5448.3	497.4	287.6	243.6	182.0	129.1	101.2	91.0	89.5	89.5
52.5°	7887.0	5875.3	405.0	253.9	205.4	149.7	108.6	89.5	80.7	76.3	76.3
55°	8677.9	6154.0	328.7	212.8	161.4	118.9	93.9	80.7	70.4	64.6	63.1
57.5°	9275.1	6187.8	246.5	170.2	120.3	92.4	80.7	70.4	58.7	51.4	48.4
60°	9530.4	5895.8	182.0	129.1	89.5	73.4	64.6	57.2	44.0	36.7	35.2
62.5°	9273.6	5327.9	135.0	98.3	69.0	54.3	45.5	42.6	30.8	22.0	20.5
65°	8353.6	4507.7	107.1	74.8	51.4	39.6	29.3	27.9	19.1	10.3	8.8
67.5°	6692.6	3530.4	85.1	55.8	36.7	26.4	19.1	17.6	10.3	2.9	2.9
70°	4352.1	2256.8	69.0	41.1	23.5	17.6	11.7	8.8	5.9	1.5	0.0
72.5°	2152.6	1055.0	55.8	32.3	16.1	8.8	4.4	2.9	4.4	0.0	0.0
75°	834.9	375.6	41.1	22.0	8.8	4.4	2.9	0.0	1.5	0.0	0.0
77.5°	277.3	124.7	24.9	11.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	102.7	48.4	13.2	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	41.1	19.1	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.5	11.7	5.9	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	8.8	5.9	4.4	2.9	1.5	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)