

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: P650863

Luminaire Tested: **GALN-SA4C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13797.4 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

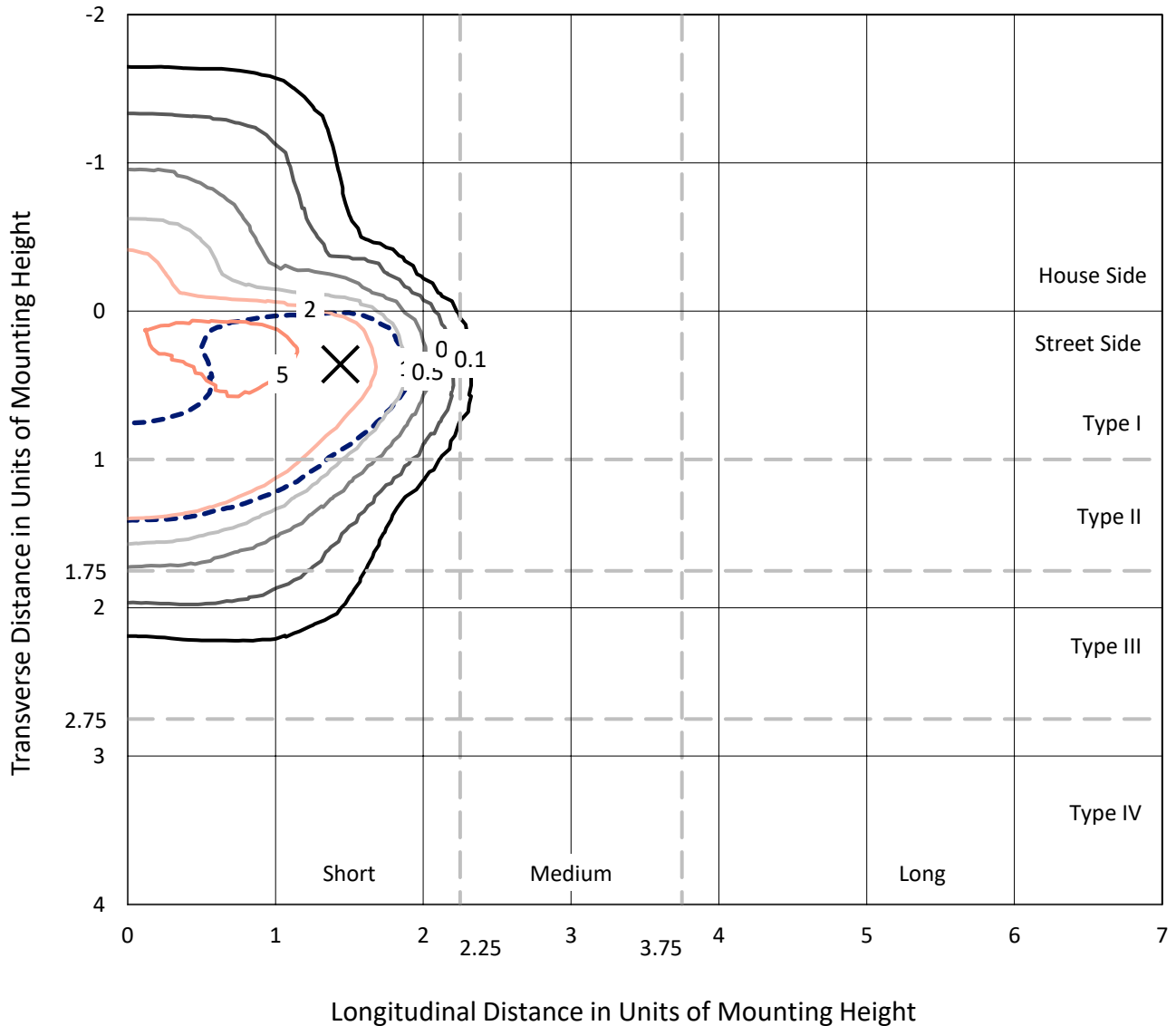
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

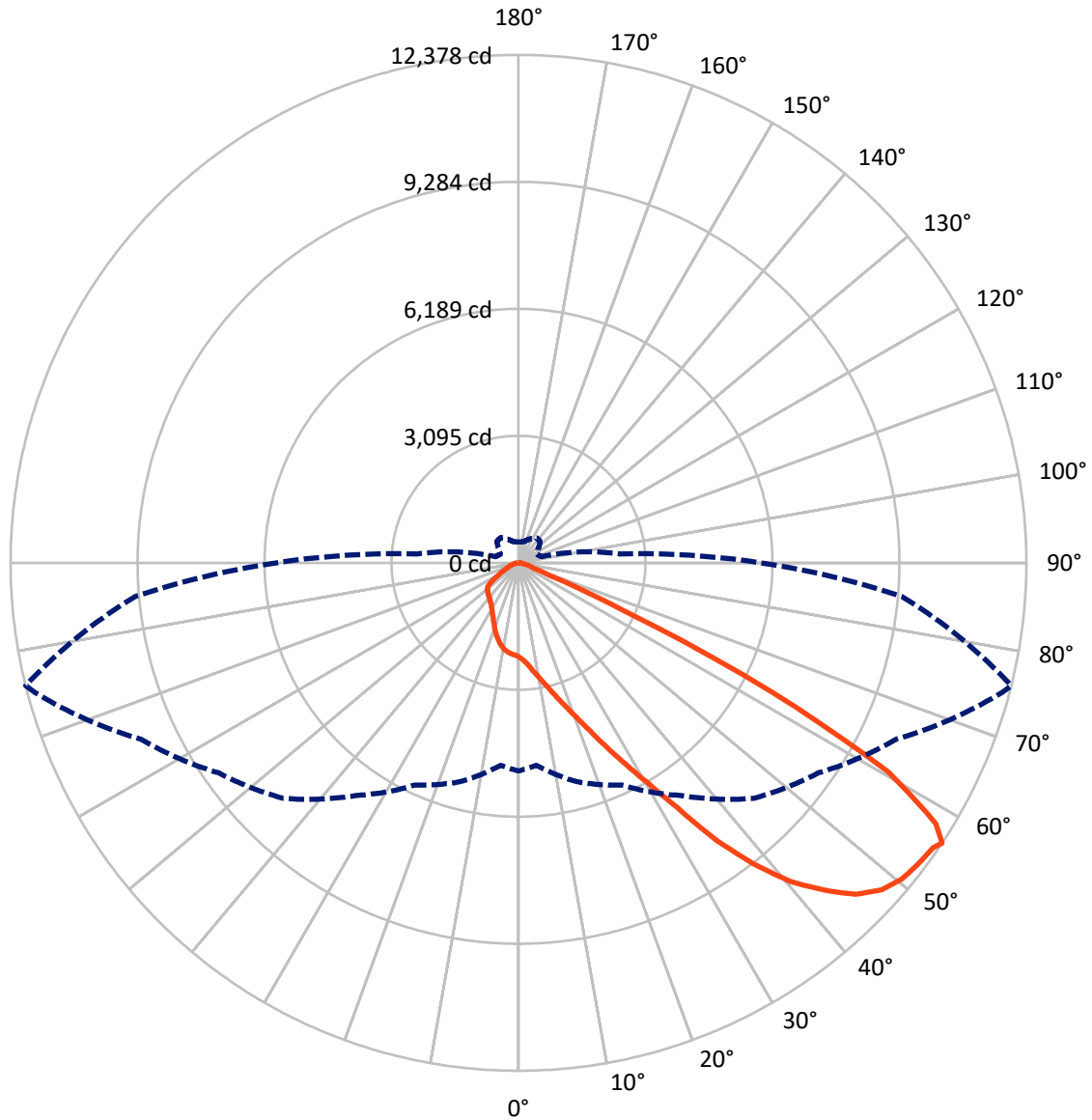
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2167.5	0.0	2167.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11629.9	0.0	11629.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	13797.4	0.0	13797.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.7
10°-20°	743.2	5.4
20°-30°	1347.7	9.8
30°-40°	2324.2	16.8
40°-50°	3775.7	27.4
50°-60°	3979.7	28.8
60°-70°	1216.0	8.8
70°-80°	155.9	1.1
80°-90°	23.7	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°	13797.4	100.0
0°-180°	13797.4	100.0

Coefficient of Utilization

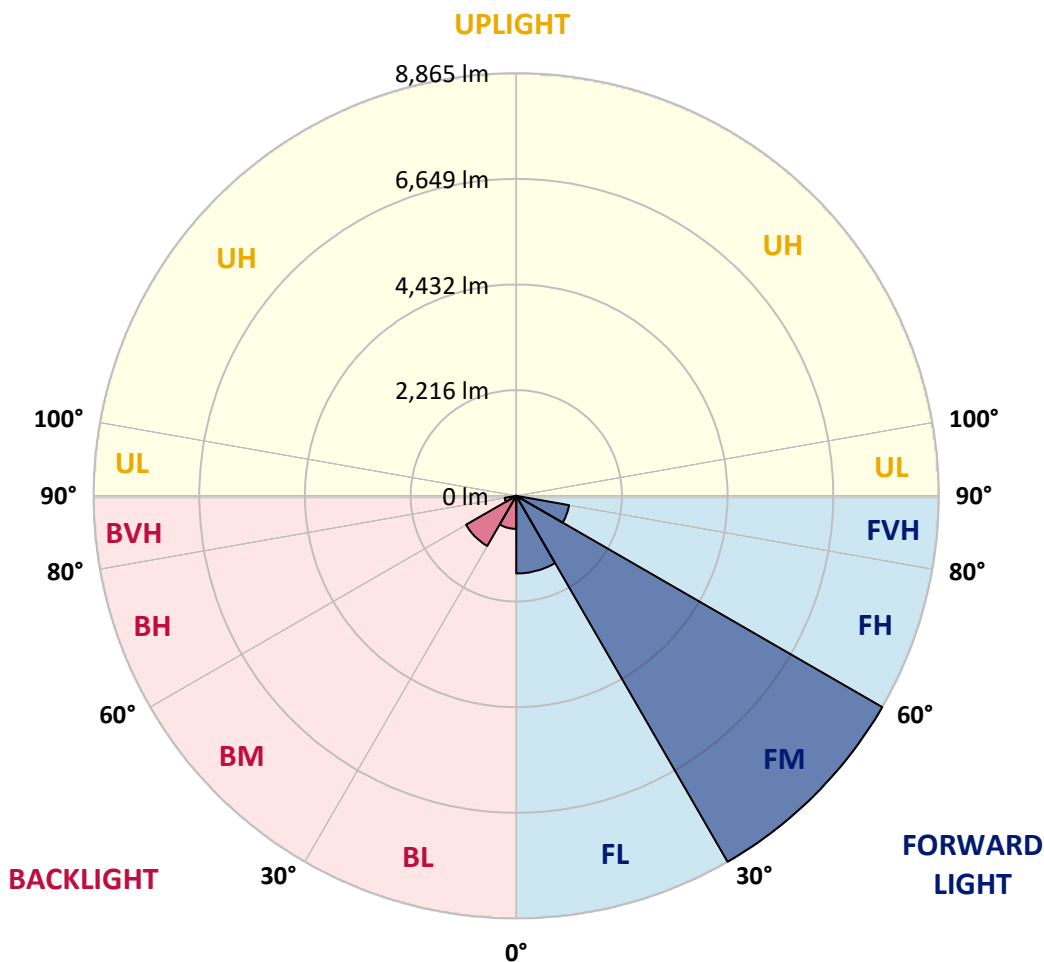


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.9	11.8			
FM (30°-60°)	8864.8	64.2			
FH (60°-80°)	1124.6	8.2			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	693.4	5.0	B2/1000		
BM (30°-60°)	1214.8	8.8	B2/2500		
BH (60°-80°)	247.3	1.8	B1/500		G1/500
BVH (80°-90°)	12.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6
2.5°	2645.0	2584.0	2586.6	2581.4	2573.8	2545.9	2461.9	2449.2	2393.2	2378.0	2327.1
5°	2962.9	2909.5	2940.1	2894.3	2851.1	2825.6	2688.3	2624.7	2535.7	2502.6	2431.4
7.5°	3161.3	3135.9	3125.7	3128.3	3087.6	3024.0	2962.9	2823.1	2703.6	2678.1	2528.0
10°	3257.9	3242.7	3257.9	3250.4	3268.1	3275.8	3169.0	3085.0	2909.5	2866.3	2632.3
12.5°	3280.8	3311.4	3324.1	3357.2	3400.4	3474.2	3466.5	3352.1	3118.1	3090.1	2792.5
15°	3336.8	3362.2	3349.5	3402.9	3484.3	3609.0	3675.1	3657.3	3405.5	3354.6	2978.2
17.5°	3387.7	3341.9	3385.1	3492.0	3573.3	3764.1	3924.4	3998.1	3718.3	3659.8	3148.6
20°	3456.3	3443.6	3436.0	3489.4	3634.4	3888.7	4206.6	4341.4	4069.3	4008.3	3392.8
22.5°	3664.9	3667.4	3662.4	3583.5	3687.8	3975.2	4453.3	4786.5	4488.9	4438.0	3670.0
25°	3939.6	3906.5	3881.0	3817.5	3804.8	4054.0	4702.5	5330.8	4992.5	4956.9	3970.1
27.5°	4229.6	4229.6	4153.2	4094.7	4013.3	4249.8	4931.5	5859.8	5600.4	5552.0	4232.1
30°	4544.8	4562.7	4552.5	4427.9	4377.1	4463.5	5165.4	6536.3	6297.2	6236.2	4664.4
32.5°	5010.3	4972.2	5015.4	4911.1	4761.1	4837.3	5534.2	7141.6	7202.7	7116.2	5231.6
35°	5625.8	5602.9	5574.9	5404.5	5226.5	5287.5	6055.6	7886.8	8339.5	8296.3	5803.8
37.5°	6177.6	6165.0	6142.1	6025.1	5819.0	5892.8	6648.2	8662.5	9448.4	9305.9	6612.6
40°	6757.6	6826.2	6752.5	6648.2	6460.0	6622.8	7345.0	9122.8	10381.8	10208.8	7230.6
42.5°	7543.4	7490.0	7523.1	7332.3	7230.6	7408.6	8044.5	9583.2	11106.6	10900.6	7886.8
45°	8380.2	8382.8	8293.7	8232.7	7968.1	8161.5	8474.3	9837.5	11683.9	11523.7	8382.8
47.5°	8916.9	8914.3	9010.9	9107.6	8835.5	8644.7	8766.8	10079.1	11981.5	11907.7	8563.3
50°	8832.9	8858.3	8983.0	9344.1	9486.6	9229.6	9041.4	10007.9	12116.3	12108.7	8718.5
52.5°	7683.3	7767.2	7975.8	8497.2	9214.4	9532.3	9328.9	10140.2	12182.5	12195.2	8949.9
55°	5849.6	5895.4	6292.1	6925.4	7719.0	8807.5	9214.4	10244.5	12233.3	12256.2	9229.6
56°	5073.9	4951.8	5524.0	5974.2	6922.9	8113.1	8924.4	10163.1	12202.7	12378.3	9369.6
57.5°	3830.3	3748.8	4211.7	4773.8	5686.8	6943.2	8024.1	9779.0	11996.8	11994.3	9168.6
60°	2329.7	2248.2	2604.3	2935.0	3446.2	4275.3	5422.3	7787.6	10142.7	10356.3	7423.9
62.5°	1386.1	1436.9	1788.0	1988.9	2154.2	2240.7	2805.2	4628.8	6767.8	6920.3	4605.9
65°	923.2	941.0	1205.5	1536.2	1609.9	1281.9	1141.9	1874.4	2935.0	2840.9	1899.8
67.5°	569.7	610.4	808.8	1154.7	1279.2	935.9	541.7	699.4	808.8	808.8	549.3
70°	345.9	366.3	539.2	785.9	877.4	602.7	394.2	394.2	389.1	381.5	328.1
72.5°	165.3	178.0	274.7	404.4	412.0	317.9	305.2	333.2	325.6	323.0	272.1
75°	71.2	76.3	96.6	127.2	145.0	134.8	185.7	239.1	246.7	239.1	195.9
77.5°	22.9	25.4	35.6	45.8	48.4	58.5	78.8	99.2	114.5	106.8	96.6
80°	2.5	5.0	10.2	22.9	35.6	45.8	58.5	66.1	73.8	73.8	68.7
82.5°	2.5	2.5	10.2	20.4	33.1	43.2	55.9	63.6	73.8	76.3	71.2
85°	0.0	2.5	7.7	17.8	28.0	28.0	25.4	25.4	17.8	17.8	17.8
87.5°	0.0	0.0	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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°	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6
2.5°	2317.0	2311.8	2243.2	2200.0	2177.1	2131.3	2103.3	2083.0	2067.7	2049.9	2052.5
5°	2347.5	2329.7	2215.2	2136.4	2042.3	1991.4	1948.2	1912.6	1889.6	1884.6	1874.4
7.5°	2433.9	2339.8	2166.9	2024.5	1904.9	1854.1	1815.9	1793.0	1803.2	1780.3	1798.1
10°	2500.0	2360.2	2108.4	1902.4	1782.8	1744.7	1724.4	1742.1	1767.6	1757.4	1744.7
12.5°	2581.4	2380.5	2014.3	1785.4	1673.5	1645.5	1681.2	1714.2	1765.1	1785.4	1760.0
15°	2673.0	2403.4	1894.8	1650.6	1579.4	1602.3	1663.3	1721.8	1772.7	1798.1	1813.4
17.5°	2784.9	2395.8	1777.8	1543.8	1490.3	1556.5	1630.3	1683.7	1760.0	1798.1	1788.0
20°	2889.2	2370.4	1648.0	1436.9	1439.5	1500.5	1561.6	1648.0	1688.7	1739.6	1721.8
22.5°	2988.4	2324.6	1513.3	1363.2	1363.2	1457.3	1487.8	1543.8	1579.4	1604.8	1602.3
25°	3128.3	2238.1	1401.4	1292.0	1322.6	1383.5	1409.0	1426.8	1411.5	1431.9	1434.4
27.5°	3227.4	2149.1	1309.8	1228.4	1284.4	1330.1	1322.6	1312.4	1276.7	1248.8	1266.5
30°	3334.3	2044.8	1231.0	1185.2	1215.7	1256.4	1225.8	1195.3	1139.4	1093.6	1096.2
32.5°	3486.9	1996.5	1162.3	1134.3	1175.0	1180.1	1147.0	1101.3	1045.3	1002.1	999.5
35°	3771.7	1966.0	1103.8	1101.3	1108.9	1111.5	1078.3	1022.4	999.5	964.0	976.7
37.5°	4056.6	1950.7	1063.1	1052.9	1050.4	1052.9	1014.8	961.3	1004.6	1002.1	1007.2
40°	4420.3	2019.4	1004.6	991.9	994.4	994.4	946.1	930.8	1007.2	1014.8	1017.4
42.5°	4789.1	2105.9	966.5	925.8	935.9	935.9	910.5	892.7	946.1	895.2	887.6
45°	5109.5	2233.0	925.8	859.7	885.1	897.8	890.2	859.7	826.5	740.1	740.1
47.5°	5213.8	2345.0	877.4	796.1	816.4	872.4	849.5	785.9	727.4	656.1	651.1
50°	5396.9	2467.0	839.3	722.3	765.6	834.2	811.3	747.7	681.6	630.8	633.3
52.5°	5585.1	2606.8	768.1	635.8	689.2	803.7	803.7	732.5	630.8	595.2	590.0
55°	5867.4	2601.8	640.9	521.3	615.4	757.9	770.6	656.1	564.6	536.6	536.6
56°	5908.1	2484.8	577.3	488.3	582.4	745.2	747.7	635.8	539.2	508.6	508.6
57.5°	5602.9	2243.2	506.1	447.6	541.7	722.3	724.9	618.1	518.8	475.6	470.5
60°	4310.9	1518.3	422.2	399.3	490.9	651.1	663.8	562.0	455.2	422.2	419.7
62.5°	2433.9	841.8	371.3	361.1	422.2	554.5	592.6	490.9	386.6	368.8	373.8
65°	1111.5	462.9	312.9	292.5	340.8	427.3	478.1	404.4	317.9	297.5	297.5
67.5°	407.0	315.4	267.0	231.4	239.1	277.2	310.2	262.0	211.1	180.6	188.2
70°	290.0	264.5	234.0	200.9	185.7	180.6	178.0	147.5	104.3	81.4	86.5
72.5°	234.0	218.7	195.9	170.4	145.0	122.1	104.3	76.3	48.4	33.1	30.5
75°	167.9	160.2	142.5	122.1	101.8	86.5	71.2	48.4	25.4	12.7	12.7
77.5°	86.5	86.5	83.9	76.3	63.6	50.9	40.7	28.0	15.2	5.0	5.0
80°	66.1	71.2	73.8	66.1	58.5	45.8	33.1	20.4	10.2	2.5	2.5
82.5°	63.6	73.8	78.8	68.7	58.5	43.2	33.1	20.4	10.2	2.5	2.5
85°	15.2	15.2	22.9	25.4	33.1	35.6	28.0	17.8	7.7	2.5	2.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	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)