

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: P528447

Luminaire Tested: **GALN-SA3C-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528447
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-SA3C-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 11533 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

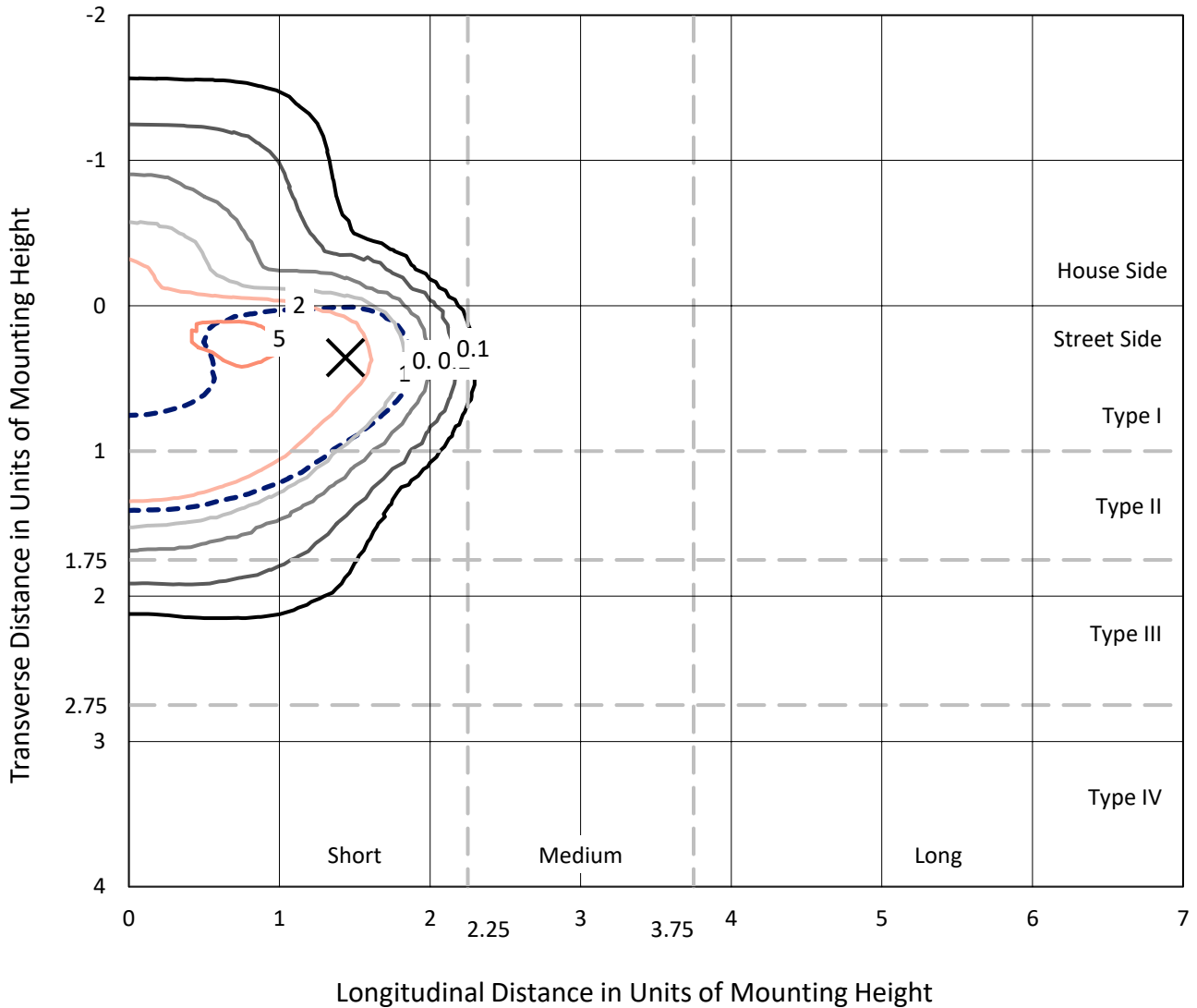
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

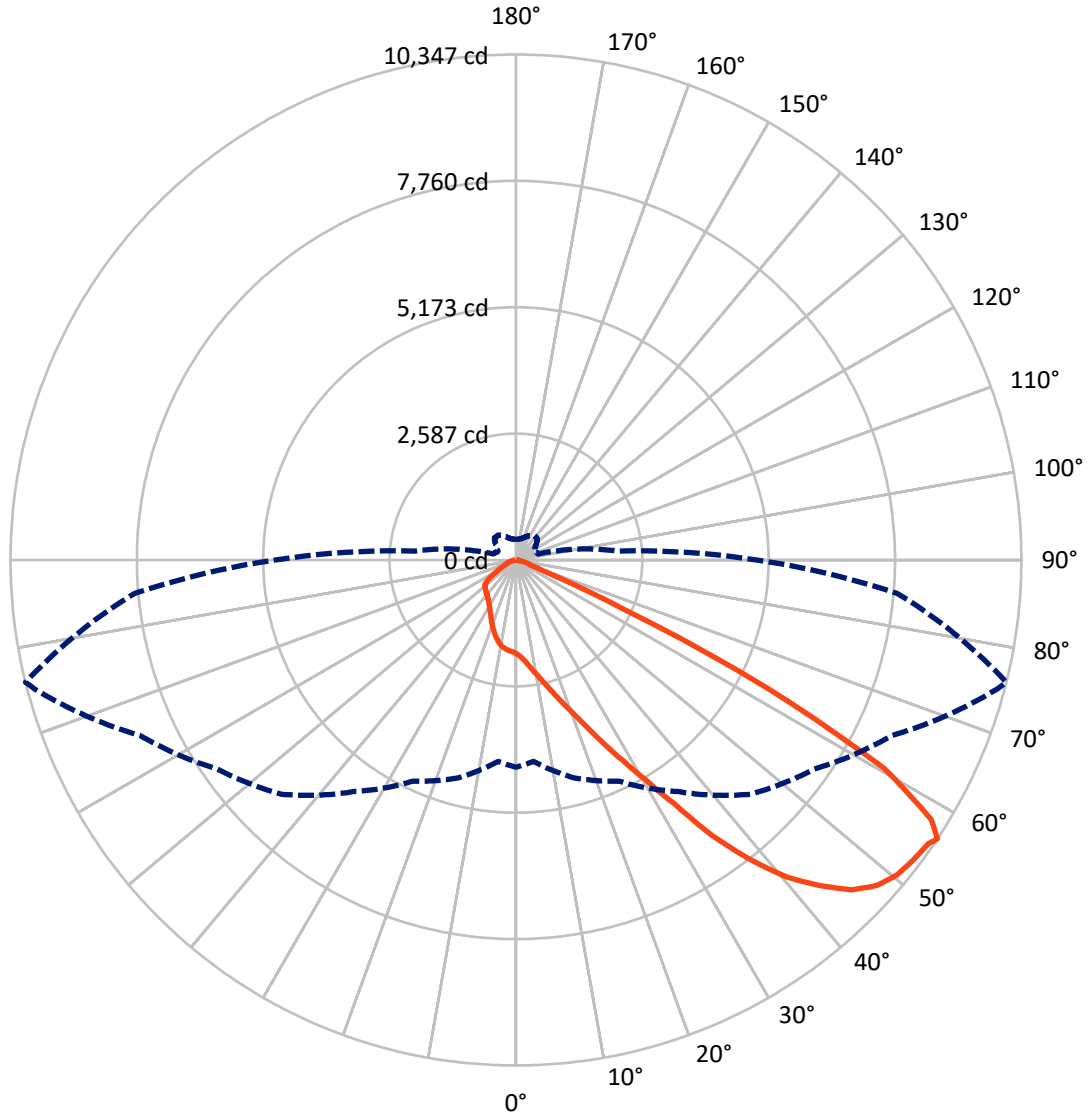
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1811.8	0.0	1811.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9721.2	0.0	9721.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	11533.0	0.0	11533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	1.7
10°-20°	621.3	5.4
20°-30°	1126.5	9.8
30°-40°	1942.7	16.8
40°-50°	3156.0	27.4
50°-60°	3326.6	28.8
60°-70°	1016.4	8.8
70°-80°	130.3	1.1
80°-90°	19.8	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°	11533.0	100.0
0°-180°	11533.0	100.0

Coefficient of Utilization

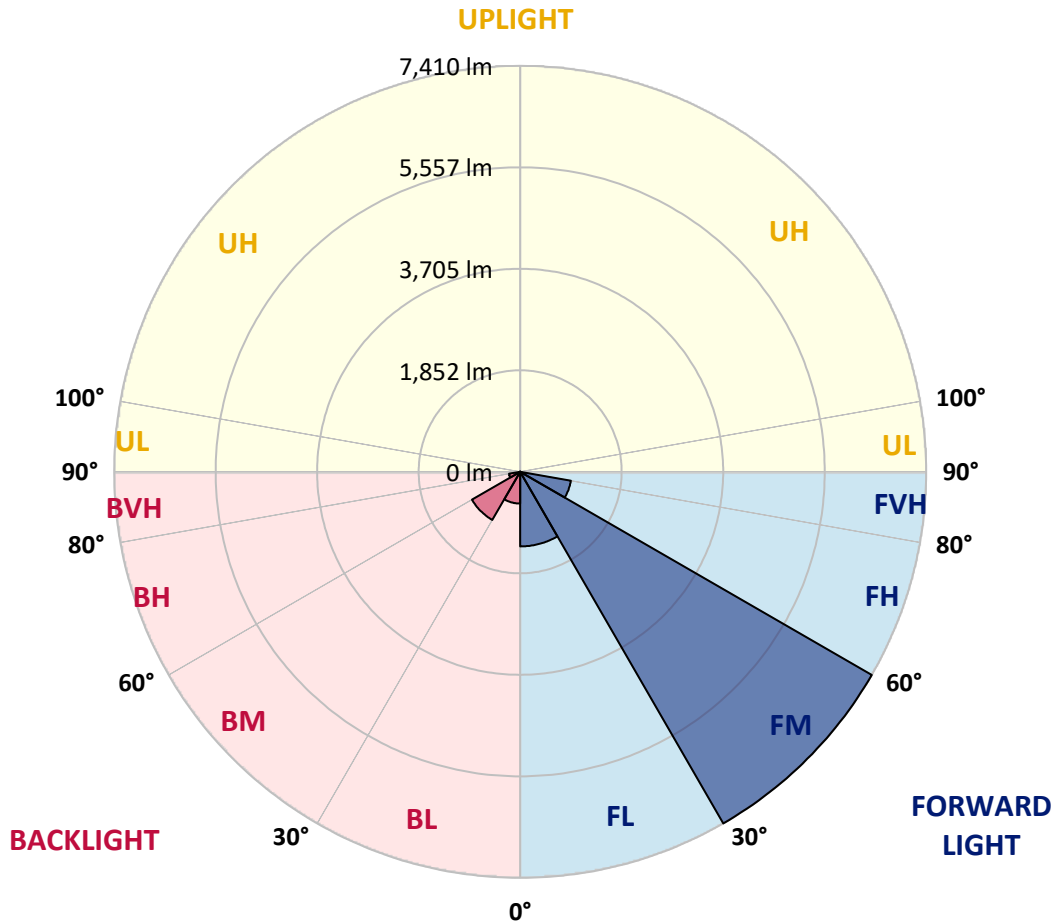


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.6	11.8			
FM (30°-60°)	7409.9	64.2			
FH (60°-80°)	940.0	8.2			G1/1800
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	579.6	5.0	B2/1000		
BM (30°-60°)	1015.4	8.8	B2/2500		
BH (60°-80°)	206.7	1.8	B1/500		G1/500
BVH (80°-90°)	10.1	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°	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7
2.5°	2210.9	2159.9	2162.0	2157.8	2151.4	2128.0	2057.9	2047.2	2000.5	1987.7	1945.2
5°	2476.7	2432.0	2457.5	2419.3	2383.1	2361.9	2247.1	2193.9	2119.5	2091.9	2032.4
7.5°	2642.5	2621.2	2612.7	2614.9	2580.8	2527.7	2476.7	2359.7	2259.8	2238.6	2113.1
10°	2723.3	2710.5	2723.3	2716.9	2731.8	2738.2	2648.9	2578.7	2432.0	2395.9	2200.3
12.5°	2742.4	2767.9	2778.5	2806.2	2842.3	2904.0	2897.6	2801.9	2606.3	2583.0	2334.2
15°	2789.2	2810.4	2799.8	2844.5	2912.5	3016.6	3071.9	3057.0	2846.6	2804.1	2489.4
17.5°	2831.7	2793.4	2829.6	2918.9	2986.9	3146.3	3280.3	3341.9	3108.1	3059.2	2631.9
20°	2889.1	2878.5	2872.1	2916.7	3037.9	3250.5	3516.2	3628.9	3401.4	3350.4	2835.9
22.5°	3063.4	3065.5	3061.3	2995.4	3082.6	3322.8	3722.4	4000.9	3752.2	3709.7	3067.7
25°	3293.0	3265.4	3244.1	3191.0	3180.3	3388.7	3930.8	4455.9	4173.1	4143.4	3318.5
27.5°	3535.4	3535.4	3471.6	3422.7	3354.7	3552.4	4122.1	4898.1	4681.2	4640.8	3537.5
30°	3799.0	3813.9	3805.4	3701.2	3658.7	3730.9	4317.7	5463.6	5263.7	5212.7	3898.9
32.5°	4188.0	4156.1	4192.3	4105.1	3979.7	4043.5	4626.0	5969.5	6020.5	5948.3	4373.0
35°	4702.5	4683.4	4660.0	4517.5	4368.7	4419.7	5061.8	6592.4	6970.8	6934.7	4851.3
37.5°	5163.8	5153.2	5134.0	5036.3	4864.1	4925.7	5557.1	7240.8	7897.7	7778.7	5527.3
40°	5648.5	5705.9	5644.3	5557.1	5399.8	5535.8	6139.6	7625.6	8677.9	8533.4	6043.9
42.5°	6305.4	6260.8	6288.4	6129.0	6043.9	6192.7	6724.2	8010.4	9283.8	9111.6	6592.4
45°	7004.8	7007.0	6932.6	6881.5	6660.4	6822.0	7083.5	8223.0	9766.4	9632.4	7007.0
47.5°	7453.4	7451.3	7532.1	7612.8	7385.4	7225.9	7328.0	8424.9	10015.1	9953.5	7157.9
50°	7383.2	7404.5	7508.7	7810.5	7929.6	7714.9	7557.6	8365.4	10127.8	10121.4	7287.6
52.5°	6422.3	6492.5	6666.8	7102.6	7702.1	7967.9	7797.8	8476.0	10183.0	10193.7	7481.0
55°	4889.6	4927.8	5259.5	5788.8	6452.1	7362.0	7702.1	8563.1	10225.6	10244.7	7714.9
56°	4241.2	4139.1	4617.4	4993.7	5786.7	6781.6	7459.8	8495.1	10200.1	10346.7	7831.8
57.5°	3201.6	3133.6	3520.5	3990.3	4753.5	5803.7	6707.2	8174.1	10027.9	10025.7	7663.9
60°	1947.3	1879.3	2176.9	2453.3	2880.6	3573.6	4532.4	6509.5	8478.1	8656.7	6205.5
62.5°	1158.6	1201.1	1494.5	1662.5	1800.6	1872.9	2344.9	3869.1	5657.0	5784.6	3850.0
65°	771.7	786.6	1007.7	1284.0	1345.7	1071.5	954.5	1566.8	2453.3	2374.6	1588.0
67.5°	476.2	510.2	676.0	965.2	1069.3	782.3	452.8	584.6	676.0	676.0	459.2
70°	289.1	306.1	450.7	656.9	733.4	503.8	329.5	329.5	325.3	318.9	274.2
72.5°	138.2	148.8	229.6	338.0	344.4	265.7	255.1	278.5	272.1	270.0	227.5
75°	59.5	63.8	80.8	106.3	121.2	112.7	155.2	199.8	206.2	199.8	163.7
77.5°	19.1	21.3	29.8	38.3	40.4	48.9	65.9	82.9	95.7	89.3	80.8
80°	2.1	4.3	8.5	19.1	29.8	38.3	48.9	55.3	61.7	61.7	57.4
82.5°	2.1	2.1	8.5	17.0	27.6	36.1	46.8	53.1	61.7	63.8	59.5
85°	0.0	2.1	6.4	14.9	23.4	23.4	21.3	21.3	14.9	14.9	14.9
87.5°	0.0	0.0	2.1	2.1	2.1	4.3	4.3	4.3	4.3	4.3	4.3
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°	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7	1919.7
2.5°	1936.7	1932.4	1875.0	1838.9	1819.8	1781.5	1758.1	1741.1	1728.4	1713.5	1715.6
5°	1962.2	1947.3	1851.7	1785.8	1707.1	1664.6	1628.4	1598.7	1579.5	1575.3	1566.8
7.5°	2034.5	1955.8	1811.3	1692.2	1592.3	1549.8	1517.9	1498.8	1507.3	1488.1	1503.0
10°	2089.8	1972.8	1762.4	1590.2	1490.3	1458.4	1441.4	1456.2	1477.5	1469.0	1458.4
12.5°	2157.8	1989.8	1683.7	1492.4	1398.8	1375.5	1405.2	1432.9	1475.4	1492.4	1471.1
15°	2234.3	2009.0	1583.8	1379.7	1320.2	1339.3	1390.3	1439.2	1481.8	1503.0	1515.8
17.5°	2327.9	2002.6	1486.0	1290.4	1245.8	1301.0	1362.7	1407.3	1471.1	1503.0	1494.5
20°	2415.0	1981.3	1377.6	1201.1	1203.3	1254.3	1305.3	1377.6	1411.6	1454.1	1439.2
22.5°	2497.9	1943.1	1264.9	1139.5	1139.5	1218.1	1243.6	1290.4	1320.2	1341.4	1339.3
25°	2614.9	1870.8	1171.4	1080.0	1105.5	1156.5	1177.7	1192.6	1179.9	1196.9	1199.0
27.5°	2697.8	1796.4	1094.8	1026.8	1073.6	1111.8	1105.5	1097.0	1067.2	1043.8	1058.7
30°	2787.1	1709.2	1028.9	990.7	1016.2	1050.2	1024.7	999.2	952.4	914.1	916.3
32.5°	2914.6	1668.8	971.5	948.2	982.2	986.4	958.8	920.5	873.7	837.6	835.5
35°	3152.7	1643.3	922.6	920.5	926.9	929.0	901.4	854.6	835.5	805.7	816.3
37.5°	3390.8	1630.6	888.6	880.1	878.0	880.1	848.2	803.6	839.7	837.6	841.9
40°	3694.8	1688.0	839.7	829.1	831.2	831.2	790.8	778.1	841.9	848.2	850.4
42.5°	4003.1	1760.2	807.8	773.8	782.3	782.3	761.1	746.2	790.8	748.3	741.9
45°	4270.9	1866.5	773.8	718.6	739.8	750.4	744.1	718.6	690.9	618.6	618.6
47.5°	4358.1	1960.1	733.4	665.4	682.4	729.2	710.0	656.9	608.0	548.5	544.2
50°	4511.2	2062.1	701.5	603.8	639.9	697.3	678.2	625.0	569.7	527.2	529.3
52.5°	4668.5	2179.0	642.0	531.5	576.1	671.8	671.8	612.3	527.2	497.5	493.2
55°	4904.4	2174.8	535.7	435.8	514.5	633.5	644.1	548.5	471.9	448.6	448.6
56°	4938.5	2077.0	482.6	408.2	486.8	622.9	625.0	531.5	450.7	425.2	425.2
57.5°	4683.4	1875.0	423.1	374.2	452.8	603.8	605.9	516.6	433.7	397.5	393.3
60°	3603.4	1269.2	352.9	333.8	410.3	544.2	554.9	469.8	380.5	352.9	350.8
62.5°	2034.5	703.7	310.4	301.9	352.9	463.4	495.3	410.3	323.1	308.3	312.5
65°	929.0	386.9	261.5	244.5	284.9	357.2	399.7	338.0	265.7	248.7	248.7
67.5°	340.1	263.6	223.2	193.5	199.8	231.7	259.4	219.0	176.4	150.9	157.3
70°	242.4	221.1	195.6	167.9	155.2	150.9	148.8	123.3	87.2	68.0	72.3
72.5°	195.6	182.8	163.7	142.4	121.2	102.0	87.2	63.8	40.4	27.6	25.5
75°	140.3	133.9	119.1	102.0	85.0	72.3	59.5	40.4	21.3	10.6	10.6
77.5°	72.3	72.3	70.2	63.8	53.1	42.5	34.0	23.4	12.8	4.3	4.3
80°	55.3	59.5	61.7	55.3	48.9	38.3	27.6	17.0	8.5	2.1	2.1
82.5°	53.1	61.7	65.9	57.4	48.9	36.1	27.6	17.0	8.5	2.1	2.1
85°	12.8	12.8	19.1	21.3	27.6	29.8	23.4	14.9	6.4	2.1	2.1
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.1	2.1	2.1	2.1	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)