

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: P382811

Luminaire Tested: **GLEON-SA1D-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7426.3 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

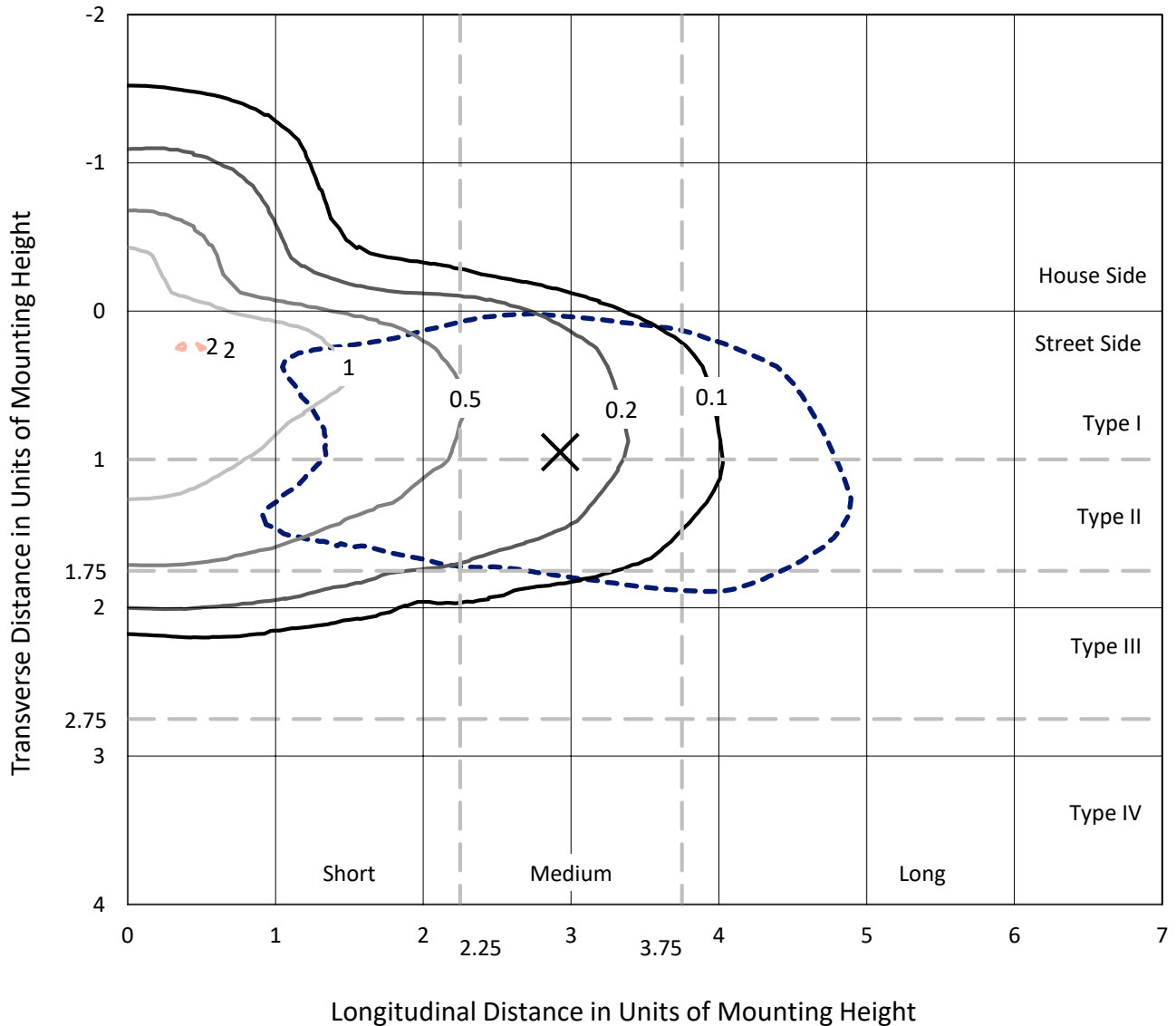
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

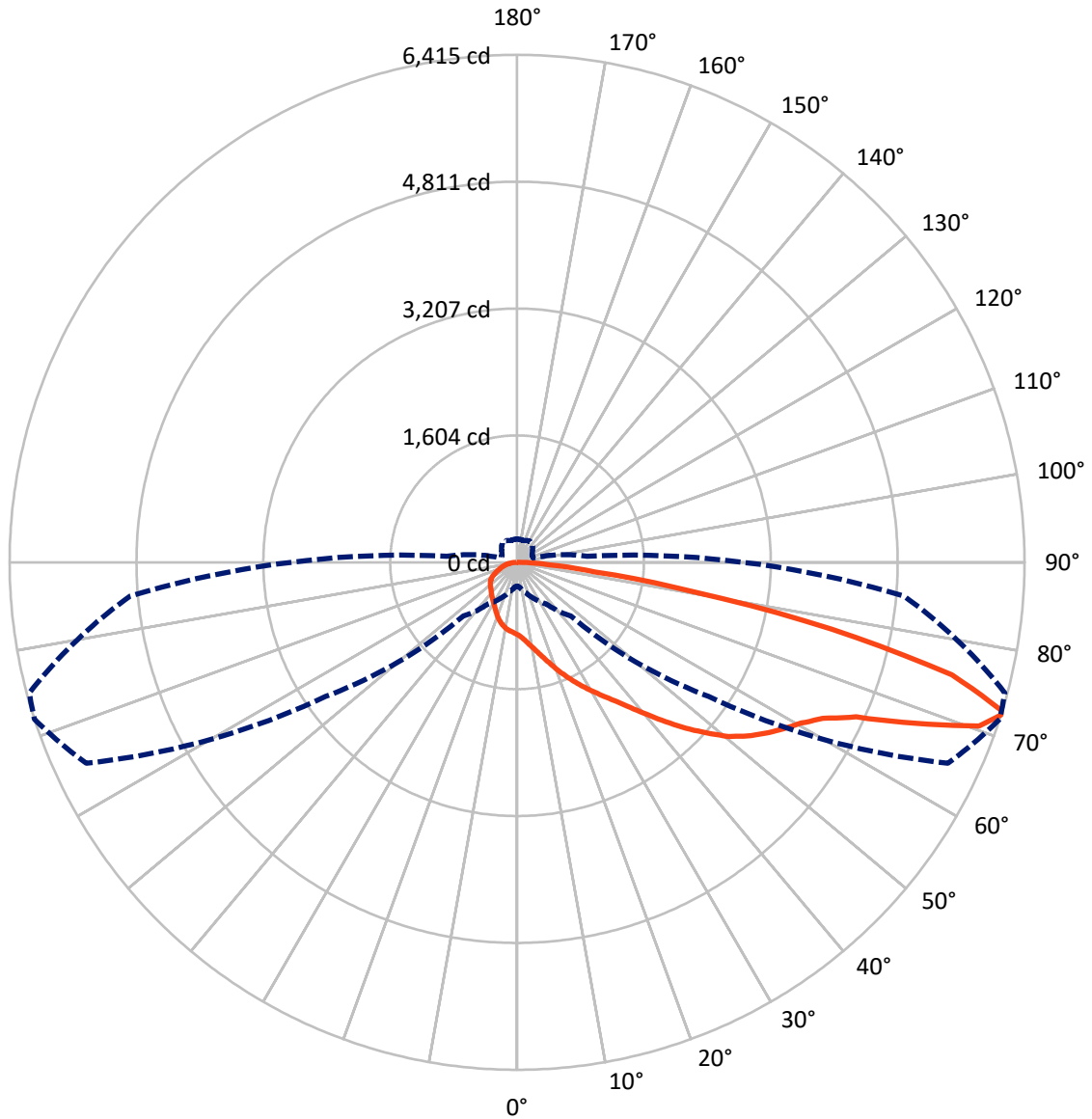
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1377.6	0.0	1377.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6048.7	0.0	6048.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	7426.3	0.0	7426.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.2
10°-20°	295.8	4.0
20°-30°	518.4	7.0
30°-40°	768.6	10.4
40°-50°	1124.2	15.1
50°-60°	1546.9	20.8
60°-70°	1722.1	23.2
70°-80°	1166.9	15.7
80°-90°	191.8	2.6
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°	7426.3	100.0
0°-180°	7426.3	100.0

Coefficient of Utilization

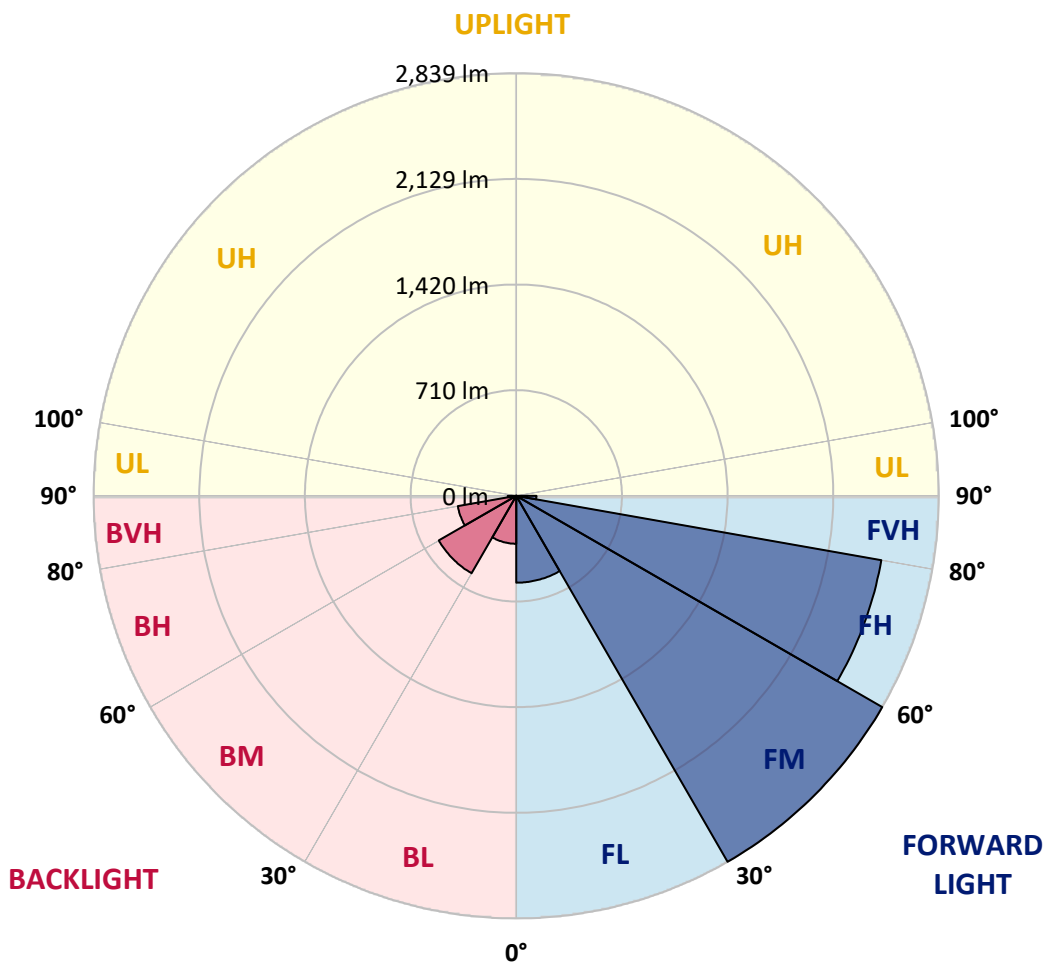


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.8	7.9			
FM (30°-60°)	2839.2	38.2			
FH (60°-80°)	2490.5	33.5			G2/5000
FVH (80°-90°)	135.3	1.8			G2/225
BL (0°-30°)	322.0	4.3	B1/500		
BM (30°-60°)	600.5	8.1	B1/1000		
BH (60°-80°)	398.6	5.4	B1/500		G1/500
BVH (80°-90°)	56.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7
2.5°	1009.2	1007.7	1002.3	1002.3	992.1	983.4	967.0	956.0	943.0	938.4	923.1
5°	1107.0	1107.4	1100.8	1096.2	1081.2	1062.7	1034.9	1009.5	984.2	973.9	942.5
7.5°	1189.0	1188.0	1186.2	1182.4	1168.3	1149.3	1111.8	1074.2	1036.9	1021.5	967.3
10°	1241.7	1244.0	1245.6	1247.3	1241.5	1227.9	1192.4	1146.5	1097.7	1076.8	996.9
12.5°	1268.3	1272.4	1279.6	1291.8	1301.6	1300.0	1274.2	1225.5	1167.5	1141.2	1034.1
15°	1283.9	1289.3	1300.5	1322.5	1349.8	1365.5	1358.6	1314.6	1249.9	1217.4	1079.3
17.5°	1293.6	1297.9	1315.3	1344.8	1385.4	1426.9	1445.0	1408.1	1342.9	1305.8	1131.3
20°	1300.3	1303.6	1325.3	1359.9	1412.5	1478.5	1529.1	1519.9	1445.5	1397.4	1185.5
22.5°	1315.1	1317.9	1338.6	1373.4	1431.7	1516.8	1610.2	1624.0	1553.6	1499.2	1243.5
25°	1356.5	1356.5	1373.9	1398.2	1452.9	1550.1	1678.6	1739.9	1664.1	1600.7	1297.2
27.5°	1435.5	1434.8	1441.1	1449.6	1491.0	1583.8	1739.9	1842.0	1778.7	1709.4	1349.3
30°	1529.1	1534.3	1535.0	1530.9	1550.4	1626.0	1796.3	1950.0	1894.0	1819.3	1402.8
32.5°	1649.6	1652.8	1649.0	1635.5	1632.6	1685.8	1851.8	2063.0	2018.8	1934.2	1451.6
35°	1802.5	1796.0	1784.0	1756.4	1730.1	1765.8	1915.3	2176.0	2158.9	2073.0	1518.9
37.5°	1966.4	1966.6	1951.8	1889.2	1852.8	1868.1	2002.6	2304.2	2328.4	2238.1	1605.1
40°	2097.8	2104.7	2113.9	2031.5	1984.5	2005.7	2113.9	2452.7	2528.9	2434.0	1717.3
42.5°	2189.6	2197.5	2223.6	2171.9	2123.1	2162.5	2244.8	2611.2	2753.9	2660.1	1848.7
45°	2286.8	2291.1	2309.5	2287.2	2256.1	2344.8	2392.4	2775.4	2991.9	2900.9	1995.7
47.5°	2389.0	2393.6	2412.5	2397.7	2381.4	2515.1	2546.3	2930.1	3220.1	3165.6	2152.8
50°	2515.4	2518.4	2536.3	2509.5	2514.6	2643.5	2683.9	3072.1	3459.1	3403.4	2310.2
52.5°	2687.7	2688.4	2713.2	2689.0	2665.0	2737.5	2802.3	3205.7	3646.5	3620.3	2467.8
55°	2822.7	2830.9	2912.2	2907.1	2893.3	2823.0	2901.2	3333.1	3813.8	3826.3	2635.1
57.5°	2736.5	2768.5	2933.2	3049.2	3162.3	3035.4	3035.0	3476.5	3969.3	4028.6	2818.9
60°	2396.7	2440.2	2682.9	2940.3	3294.0	3405.2	3312.7	3651.7	4126.3	4229.0	3049.2
62.5°	1711.7	1783.3	2112.1	2523.3	3113.4	3650.2	3877.8	3929.6	4339.8	4461.3	3348.7
65°	865.3	919.5	1195.2	1690.5	2487.5	3490.1	4491.9	4538.2	4710.8	4818.7	3809.8
67.5°	525.8	546.2	680.7	940.2	1525.0	2718.6	4692.4	5552.6	5428.9	5486.2	4467.1
70°	387.4	402.5	486.4	624.4	877.1	1595.4	4077.2	6276.5	6195.2	6188.8	4952.9
72°	301.7	312.7	386.9	504.5	641.3	957.1	2955.1	6009.3	6414.5	6382.3	4908.5
72.5°	286.2	295.9	363.4	474.8	606.0	867.6	2657.1	5829.0	6398.7	6384.2	4850.9
75°	225.2	232.1	269.0	367.2	474.3	492.2	1456.0	4517.3	5676.4	5912.3	4363.1
77.5°	186.4	187.4	206.9	267.2	369.7	348.0	715.2	3134.2	4064.6	4324.2	3090.7
80°	151.8	153.1	162.4	187.4	279.7	257.5	339.5	1802.2	2275.8	2278.6	1469.8
82.5°	120.9	121.2	131.4	137.0	201.0	184.1	194.6	846.1	994.4	956.6	528.3
85°	85.1	83.4	128.4	112.5	131.4	118.1	107.4	335.0	411.2	393.3	165.4
87.5°	28.4	29.4	57.0	72.8	76.7	67.0	47.8	128.4	155.2	153.9	52.4
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°	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7
2.5°	918.2	910.0	898.0	884.7	874.3	863.5	855.6	851.5	846.9	843.1	847.6
5°	927.9	912.6	887.0	862.0	843.6	827.2	815.5	809.3	803.6	799.8	800.4
7.5°	943.8	919.0	876.0	839.5	813.9	796.3	784.3	780.2	776.5	775.5	776.8
10°	960.7	924.1	861.5	812.9	783.7	769.2	763.8	766.6	769.2	771.4	774.0
12.5°	979.9	928.8	840.3	781.7	756.9	751.3	756.6	768.9	777.8	783.2	786.5
15°	1005.0	932.9	815.7	750.5	733.9	740.3	758.4	779.6	795.3	805.2	806.7
17.5°	1028.0	932.6	784.3	719.1	715.2	733.9	761.3	791.2	812.1	826.2	829.0
20°	1051.7	925.7	747.7	688.3	696.2	727.0	762.5	798.5	823.9	840.3	844.1
22.5°	1074.0	913.7	707.5	660.5	680.4	717.8	757.6	794.2	819.6	832.8	836.9
25°	1089.1	892.7	666.9	637.0	666.3	706.5	741.8	771.2	790.1	796.8	797.8
27.5°	1096.7	865.3	628.5	616.5	651.8	688.1	712.4	727.0	732.3	731.8	730.8
30°	1097.7	829.3	595.5	599.9	634.9	661.0	672.5	669.7	662.8	651.1	652.1
32.5°	1094.4	788.6	567.9	584.0	613.4	628.0	628.5	615.0	596.6	577.9	572.8
35°	1095.4	748.7	543.7	566.1	587.3	593.8	587.9	567.9	542.8	518.8	513.7
37.5°	1106.7	713.9	522.7	545.4	558.5	560.0	551.6	530.6	512.2	488.7	486.6
40°	1133.5	689.2	502.8	522.1	529.6	530.3	518.3	503.5	505.0	492.5	492.2
42.5°	1181.9	678.4	485.1	497.8	502.5	504.0	494.7	485.3	498.7	490.5	487.7
45°	1244.3	681.0	470.2	474.1	482.5	489.7	484.0	472.6	477.7	442.1	430.4
47.5°	1316.4	697.3	458.5	453.7	468.2	481.7	473.0	455.6	437.5	402.2	395.5
50°	1400.8	722.6	447.7	433.4	452.6	471.0	462.3	437.5	410.2	393.0	390.7
52.5°	1488.7	753.5	437.0	411.2	432.9	462.8	458.5	433.4	399.6	382.8	379.7
55°	1588.5	784.7	423.5	385.4	411.7	459.0	456.6	418.5	391.7	382.3	380.0
57.5°	1712.5	820.3	405.5	358.5	391.7	445.2	438.0	409.6	383.5	376.4	375.6
60°	1874.1	872.7	379.7	329.9	367.4	423.9	422.5	396.6	370.5	365.4	364.4
62.5°	2116.5	959.4	344.2	301.3	340.4	387.9	402.0	379.0	356.7	356.4	357.0
65°	2492.4	1089.8	305.5	276.2	313.0	357.4	378.2	360.8	342.6	347.7	348.5
67.5°	2928.0	1198.0	267.7	251.6	285.1	328.6	356.7	342.6	324.0	337.3	337.5
70°	3073.1	1101.3	234.5	227.3	256.2	300.7	333.4	322.7	303.8	317.1	315.8
72°	2859.8	889.1	213.0	208.9	234.5	277.7	312.7	304.1	285.3	294.3	291.0
72.5°	2792.5	847.6	207.6	204.3	228.6	271.8	307.3	299.4	280.8	288.4	285.3
75°	2491.1	736.2	178.5	179.2	199.4	243.1	277.2	274.6	255.4	256.2	255.2
77.5°	1806.8	539.8	150.4	155.5	169.8	213.8	246.8	245.2	224.2	220.4	219.7
80°	838.5	275.4	122.5	124.8	139.6	178.8	210.4	208.4	191.5	186.7	183.9
82.5°	287.2	130.9	92.0	93.6	108.2	143.9	182.6	181.3	167.2	157.8	151.8
85°	102.6	65.2	64.5	62.9	77.2	113.3	159.0	152.1	131.4	112.0	111.5
87.5°	33.3	27.9	33.3	33.0	45.0	76.7	115.6	98.5	95.4	79.3	77.7
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)