

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: P450817

Luminaire Tested: **GALN-SA1C-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5259 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

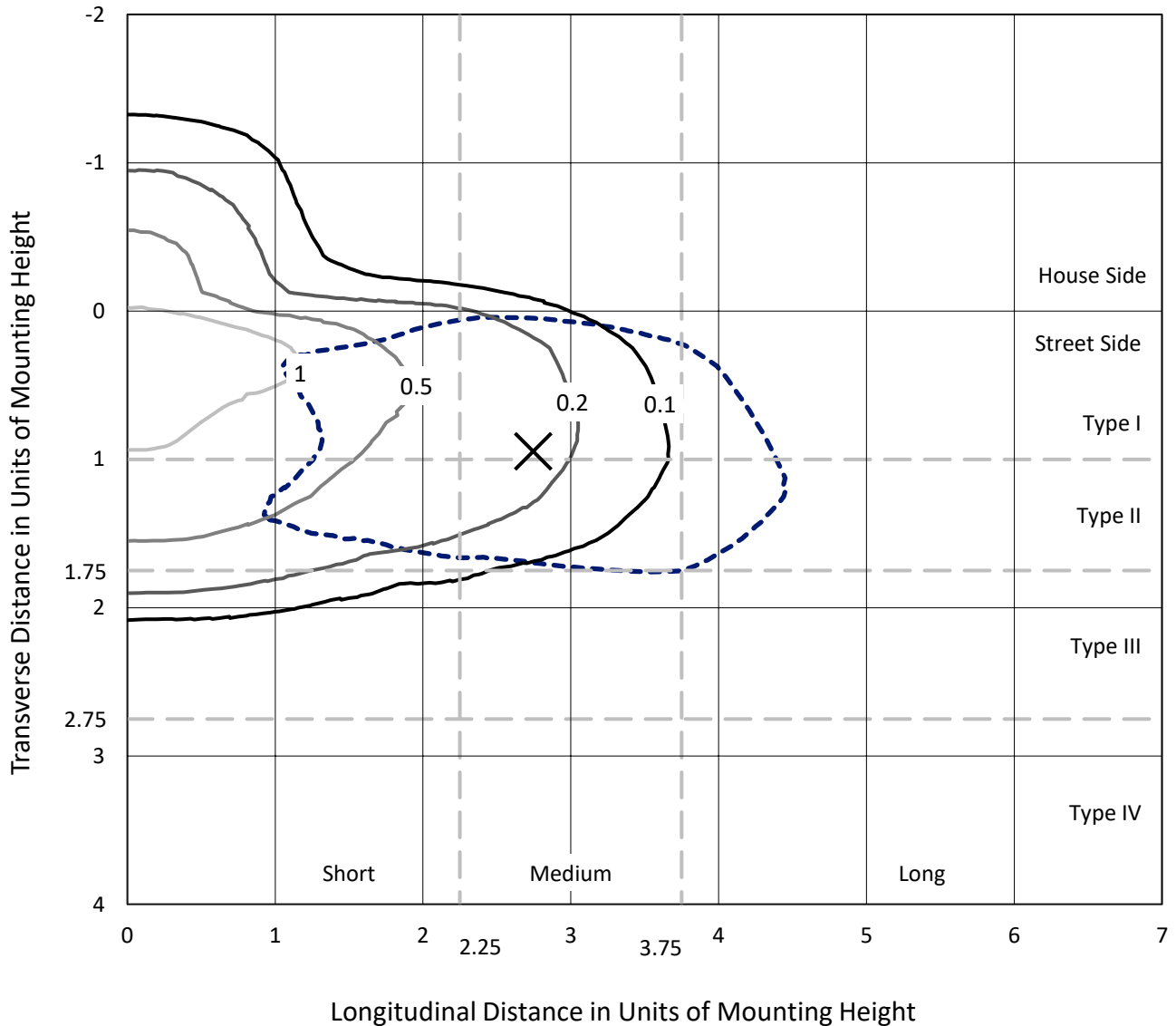
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

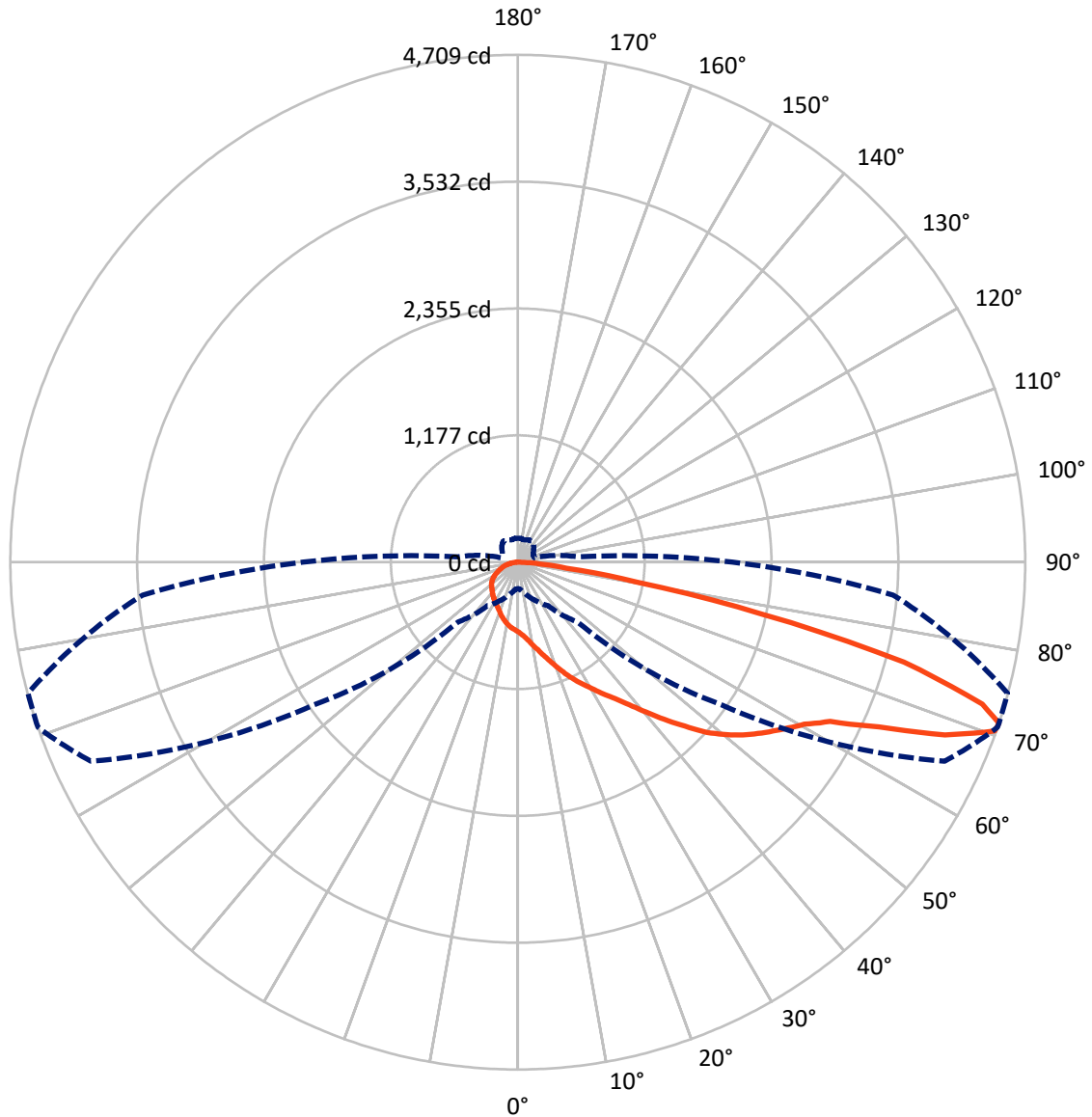
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.8	0.0	945.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	4313.2	0.0	4313.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	5259.0	0.0	5259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.2
10°-20°	210.6	4.0
20°-30°	368.0	7.0
30°-40°	547.3	10.4
40°-50°	806.4	15.3
50°-60°	1128.9	21.5
60°-70°	1262.6	24.0
70°-80°	771.3	14.7
80°-90°	99.2	1.9
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°	5259.0	100.0
0°-180°	5259.0	100.0

Coefficient of Utilization



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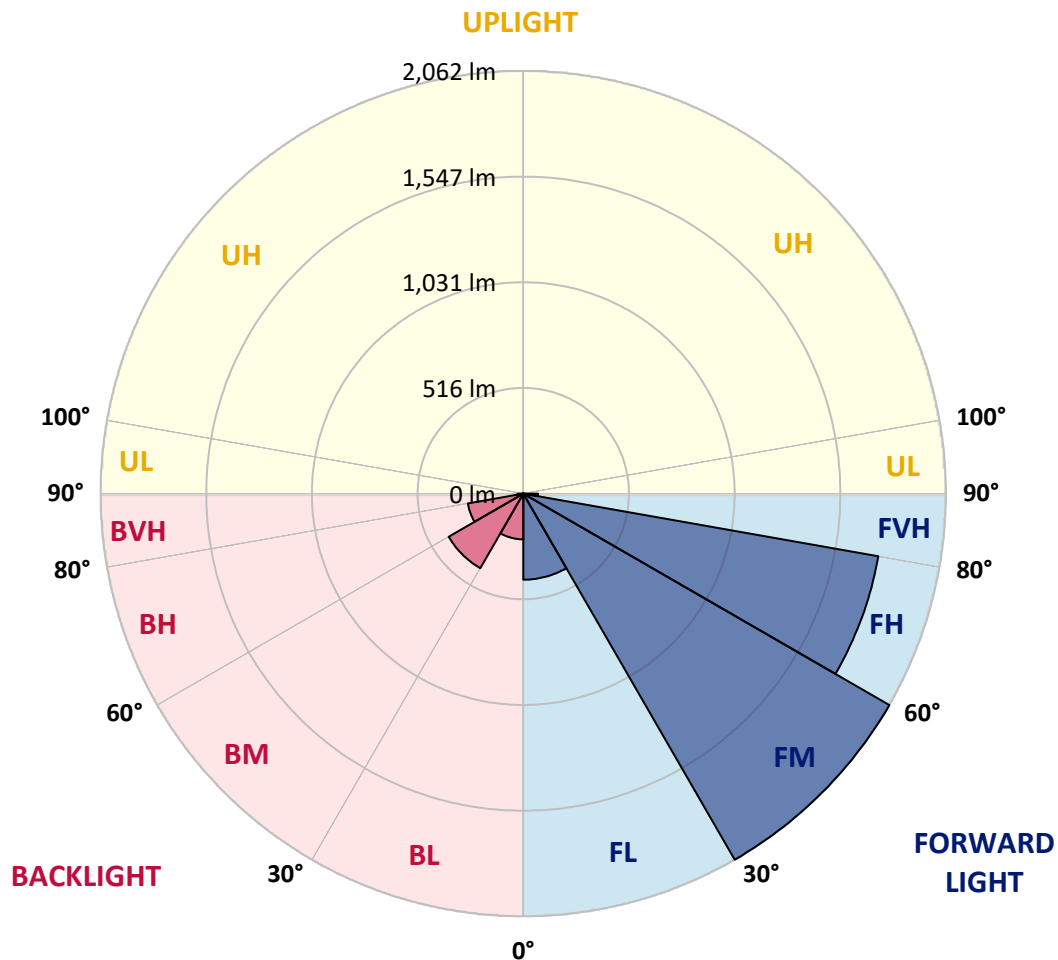
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.2	8.0			
FM (30°-60°)	2062.5	39.2			
FH (60°-80°)	1759.1	33.4			G1/1800
FVH (80°-90°)	71.4	1.4			G1/100
BL (0°-30°)	223.1	4.2	B1/500		
BM (30°-60°)	420.1	8.0	B1/1000		
BH (60°-80°)	274.8	5.2	B1/500		G1/500
BVH (80°-90°)	27.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4
2.5°	716.5	713.1	713.4	708.5	702.1	695.2	685.3	676.7	669.7	665.7	653.8
5°	794.0	790.5	786.2	775.5	770.9	753.8	732.2	712.5	697.5	689.1	665.4
7.5°	856.7	855.9	854.7	848.6	836.8	813.1	794.6	760.5	738.2	722.3	681.9
10°	895.5	896.9	897.8	898.9	894.0	881.6	856.2	813.1	784.8	764.5	703.2
12.5°	915.1	916.6	921.5	932.2	938.8	937.4	916.6	874.4	835.3	808.7	726.1
15°	927.3	929.6	938.2	952.4	974.7	988.8	978.7	939.7	896.9	865.4	753.3
17.5°	940.6	943.2	952.7	972.9	1002.1	1032.8	1043.7	1010.2	963.7	926.1	783.6
20°	948.1	951.5	965.1	991.7	1025.8	1070.3	1106.8	1089.1	1038.3	996.6	818.6
22.5°	960.2	963.1	974.7	1003.0	1043.7	1099.5	1169.8	1166.0	1121.2	1067.4	857.0
25°	993.2	997.8	1003.6	1020.6	1059.9	1129.3	1222.1	1248.1	1201.6	1141.4	892.3
27.5°	1055.3	1059.1	1058.8	1061.1	1083.3	1155.0	1267.5	1329.3	1281.3	1216.3	926.4
30°	1126.1	1127.6	1128.7	1123.5	1128.4	1181.3	1309.1	1409.7	1361.7	1293.2	956.2
32.5°	1212.3	1215.1	1205.3	1192.0	1188.0	1220.3	1343.5	1490.0	1456.8	1371.2	985.6
35°	1314.0	1321.5	1301.6	1278.2	1261.7	1276.4	1389.7	1572.1	1554.2	1471.0	1024.7
37.5°	1430.2	1439.4	1420.9	1375.0	1351.6	1355.6	1450.1	1673.6	1677.3	1584.5	1082.8
40°	1525.3	1537.4	1538.0	1473.0	1437.4	1442.0	1526.7	1782.8	1825.9	1725.0	1151.3
42.5°	1588.0	1599.9	1612.3	1574.1	1536.9	1563.2	1616.1	1901.3	1993.0	1895.6	1246.9
45°	1656.8	1667.5	1674.4	1657.1	1636.3	1704.5	1723.9	2027.4	2171.0	2086.0	1351.6
47.5°	1736.6	1748.4	1755.1	1738.6	1730.8	1828.5	1840.1	2145.0	2361.2	2271.0	1467.2
50°	1843.0	1851.9	1848.4	1838.0	1836.3	1923.6	1951.6	2255.1	2518.2	2470.2	1587.1
52.5°	1975.3	1986.0	1989.8	1975.0	1968.4	1991.5	2041.5	2355.4	2661.0	2641.3	1715.2
55°	2055.4	2072.5	2129.7	2152.8	2168.7	2079.4	2138.4	2466.1	2789.0	2821.7	1852.8
57.5°	1952.8	1974.8	2102.8	2218.4	2367.9	2299.1	2275.7	2581.8	2917.0	2996.5	2017.5
60°	1702.5	1707.4	1872.4	2085.5	2386.1	2581.5	2562.1	2765.6	3055.8	3172.9	2234.6
62.5°	1181.0	1191.4	1386.6	1726.5	2161.2	2683.2	3049.4	3083.0	3254.7	3436.8	2552.8
65°	609.0	595.4	773.2	1085.1	1629.3	2441.6	3444.3	3666.5	3685.9	3849.5	3000.9
67.5°	374.9	381.0	464.2	633.6	963.4	1774.5	3402.9	4379.6	4277.6	4356.2	3416.8
70°	281.5	289.0	346.3	433.6	587.3	1014.5	2736.7	4552.5	4695.0	4674.7	3543.4
71°	244.8	252.6	312.2	394.5	493.4	783.0	2305.7	4371.5	4709.4	4705.9	3495.7
72.5°	208.7	213.6	260.1	334.1	415.9	548.9	1732.2	3920.6	4508.5	4623.9	3325.5
75°	163.9	167.6	188.5	254.9	327.5	337.0	929.6	2939.3	3703.0	3922.6	2768.5
77.5°	133.5	136.1	146.8	189.3	252.6	238.8	487.6	1913.2	2319.9	2541.0	1630.8
80°	106.1	109.0	115.3	128.3	189.3	170.2	232.7	969.5	1120.6	1118.3	650.9
82.5°	82.4	83.2	90.8	94.2	129.5	120.8	126.0	410.4	454.7	469.7	235.0
85°	52.0	54.6	80.4	72.3	77.5	70.8	62.1	163.0	200.9	198.0	93.9
87.5°	15.9	16.8	27.2	30.6	34.4	30.9	22.8	48.0	58.7	63.6	23.4
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°	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4	645.4
2.5°	649.2	646.0	634.7	625.5	616.8	607.3	599.2	596.9	594.9	594.0	593.7
5°	655.3	645.7	623.5	605.3	590.8	577.5	569.1	565.4	561.6	561.6	562.8
7.5°	663.9	646.6	612.2	585.0	566.8	554.4	548.3	547.7	548.6	549.5	549.8
10°	673.5	646.0	595.7	561.9	545.7	539.9	540.2	545.1	549.8	553.2	553.8
12.5°	682.7	642.5	576.4	540.2	529.8	531.0	539.1	550.1	559.0	563.9	564.2
15°	693.1	637.1	552.9	519.7	516.2	525.2	540.2	557.0	570.6	578.7	579.5
17.5°	701.8	627.8	528.4	499.8	504.1	520.6	541.4	563.1	579.5	589.7	591.4
20°	711.6	616.0	502.9	480.7	493.1	515.4	539.1	562.5	579.5	589.4	591.7
22.5°	719.4	599.2	478.7	465.1	483.3	509.0	531.3	550.1	563.9	569.1	572.6
25°	722.6	578.1	455.8	452.4	475.5	498.6	513.6	524.3	528.7	528.1	529.5
27.5°	720.9	553.8	436.2	442.2	465.7	482.4	489.9	489.1	481.3	474.0	477.5
30°	713.7	524.9	419.7	431.8	452.9	462.2	461.0	449.8	435.0	421.4	422.3
32.5°	700.6	493.7	404.4	420.0	435.0	439.1	431.3	416.5	395.4	377.8	375.2
35°	689.7	463.9	390.8	406.4	417.1	415.1	407.6	388.5	369.4	353.8	351.2
37.5°	687.9	438.5	377.8	391.1	397.1	394.3	385.0	368.8	361.9	350.0	348.6
40°	697.2	420.6	364.5	374.9	377.8	375.5	365.4	356.1	362.5	359.6	359.6
42.5°	722.3	411.0	352.6	358.7	361.0	362.8	355.5	347.7	355.5	342.2	337.9
45°	762.2	411.3	341.9	342.8	349.7	355.8	350.9	339.3	335.3	308.7	303.5
47.5°	820.9	421.1	333.3	327.8	340.2	350.3	343.4	326.6	308.7	291.1	287.9
50°	889.4	438.8	325.5	312.2	327.5	343.4	338.2	318.5	300.0	289.3	287.3
52.5°	965.4	461.0	315.9	294.8	311.9	340.2	339.3	317.4	291.9	284.7	283.0
55°	1059.4	483.0	304.1	274.6	298.0	337.6	336.2	307.8	290.2	285.0	284.4
57.5°	1168.6	514.8	287.0	254.1	282.1	326.9	323.7	302.1	284.4	280.7	280.4
60°	1344.6	564.2	262.7	235.3	265.9	308.1	312.2	292.2	275.2	274.3	274.0
62.5°	1576.2	633.6	237.6	215.9	247.1	283.8	295.4	278.9	265.3	269.7	270.3
65°	1895.8	692.0	211.6	199.4	226.3	260.4	279.5	266.5	254.4	262.7	262.7
67.5°	2104.3	693.1	187.9	182.4	205.2	240.8	262.7	251.8	240.2	254.4	254.9
70°	2060.9	607.3	168.2	164.5	184.7	219.7	244.2	235.6	222.3	235.0	230.4
71°	1990.9	559.6	160.4	157.5	176.6	209.6	235.6	228.3	215.0	223.4	220.8
72.5°	1879.4	485.9	147.7	148.3	164.5	196.8	223.4	215.9	202.6	207.2	206.4
75°	1588.6	424.3	126.3	128.9	141.3	175.2	199.2	193.4	179.8	179.8	178.9
77.5°	993.2	296.6	104.9	106.4	120.0	150.0	171.1	166.2	153.2	148.9	147.7
80°	370.6	153.2	82.1	83.8	92.2	118.2	141.6	137.0	123.7	118.8	114.2
82.5°	140.2	76.9	60.4	59.0	67.9	90.2	111.0	105.5	95.1	83.2	79.8
85°	52.9	38.2	37.0	35.8	39.9	53.5	68.8	67.6	56.7	48.3	47.4
87.5°	13.9	12.4	14.5	10.7	11.3	10.1	10.4	4.3	2.0	0.9	0.6
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)