

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: P458562

Luminaire Tested: **GALN-SA1B-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5466 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

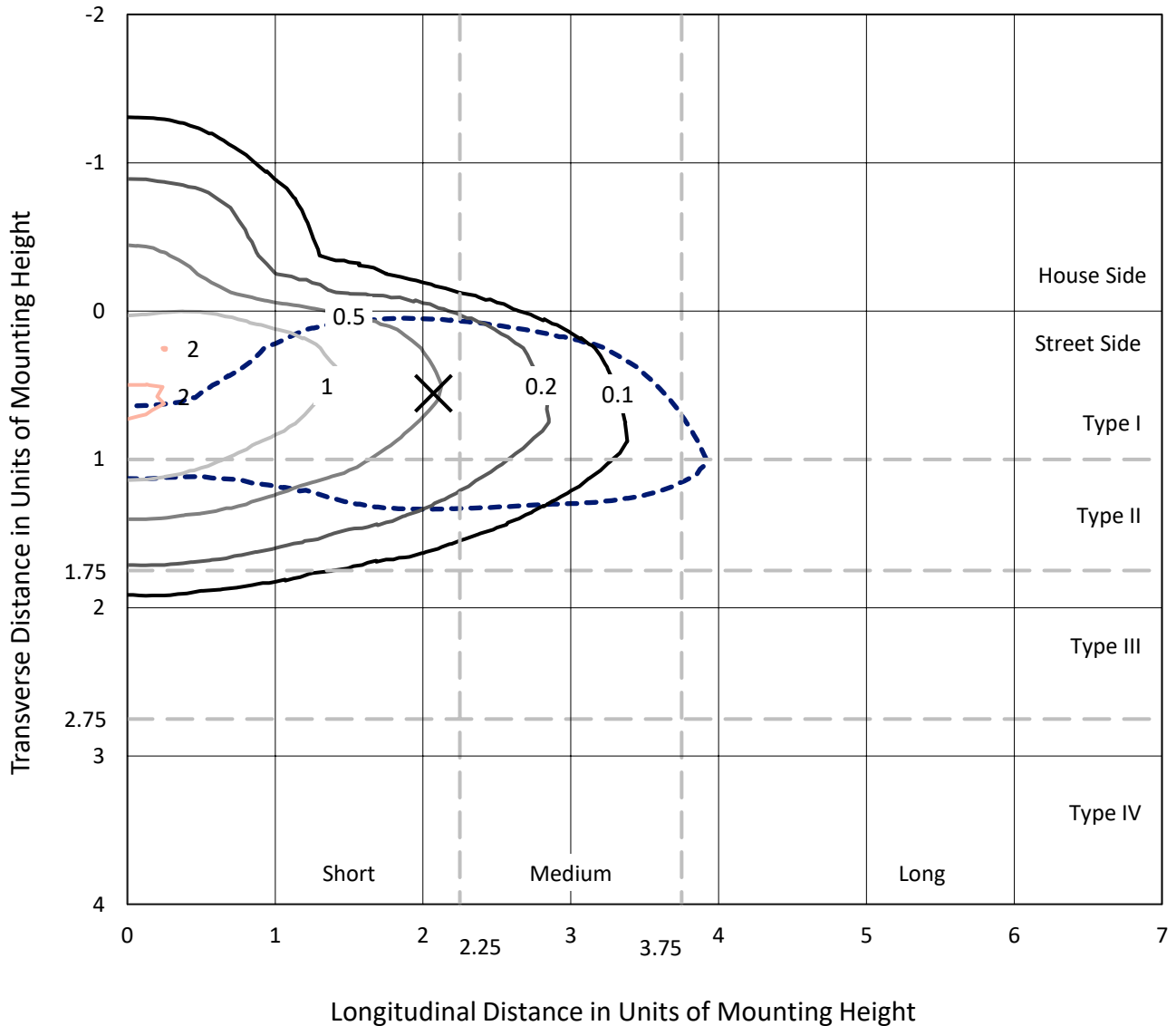
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

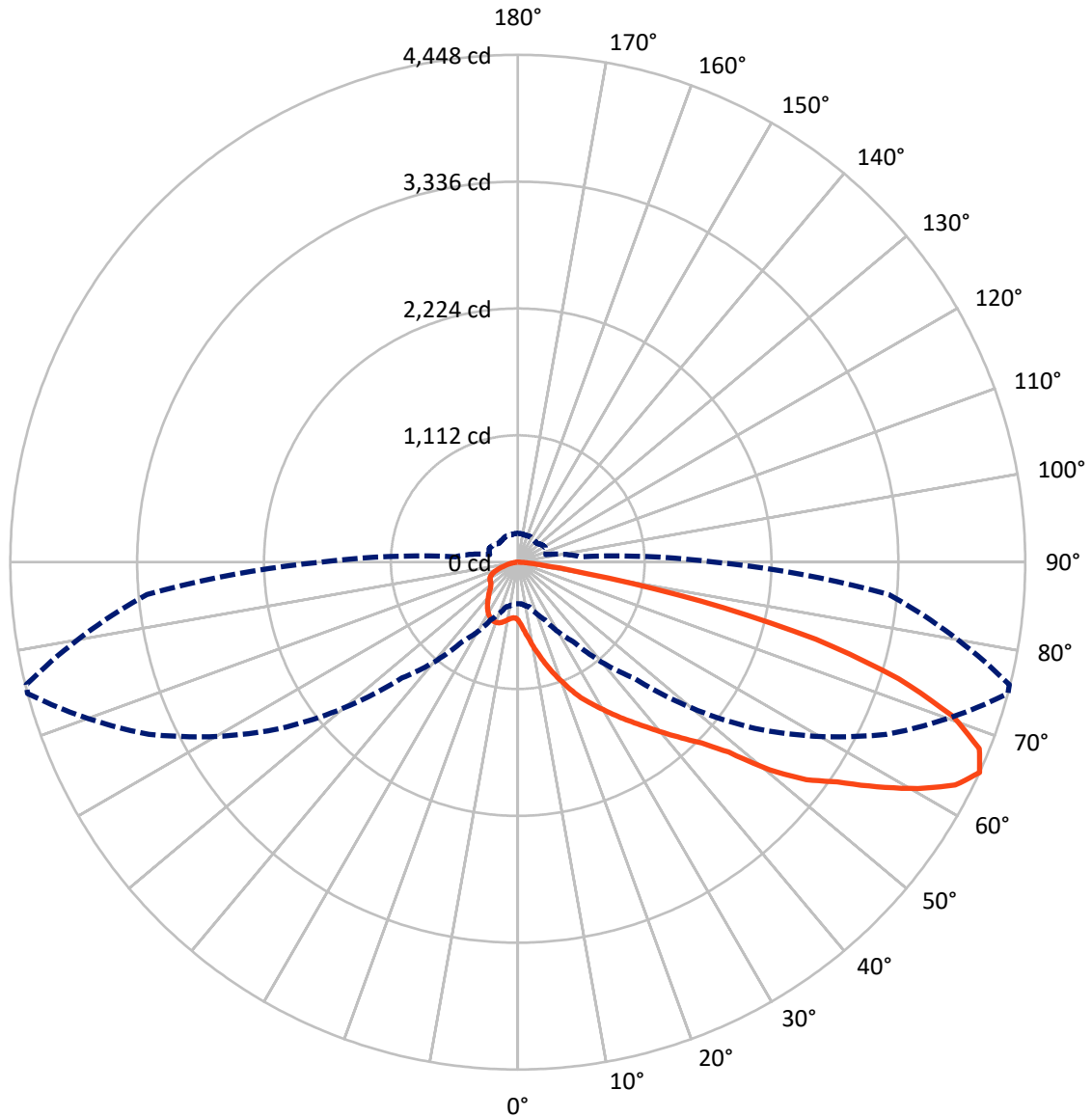
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	918.9	0.0	918.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4547.1	0.0	4547.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	5466.0	0.0	5466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.1
10°-20°	241.7	4.4
20°-30°	466.9	8.5
30°-40°	758.3	13.9
40°-50°	1043.1	19.1
50°-60°	1231.6	22.5
60°-70°	1079.1	19.7
70°-80°	515.2	9.4
80°-90°	68.5	1.3
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°	5466.0	100.0
0°-180°	5466.0	100.0

Coefficient of Utilization



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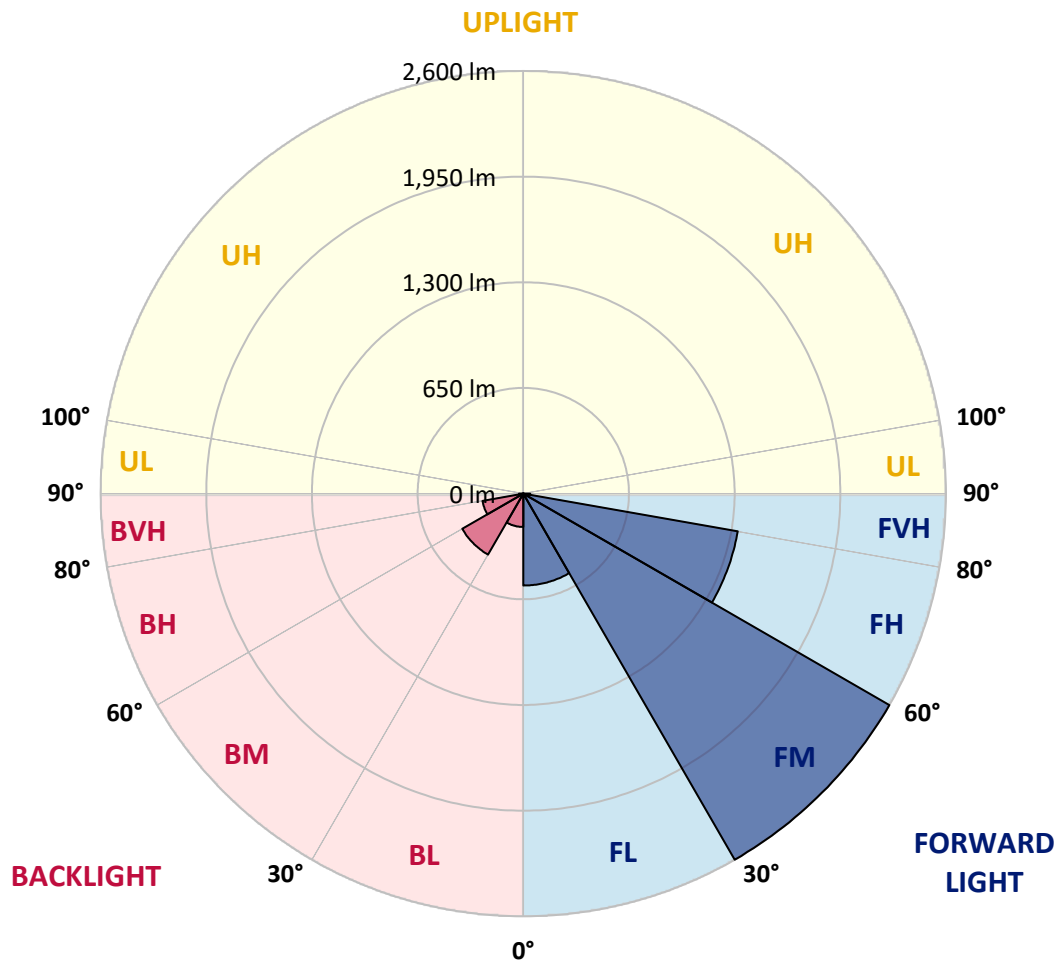
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	565.1	10.3			
FM	(30°-60°)	2599.7	47.6			
FH	(60°-80°)	1339.4	24.5			G1/1800
FVH	(80°-90°)	42.8	0.8			G1/100
BL	(0°-30°)	205.1	3.8	B1/500		
BM	(30°-60°)	433.3	7.9	B1/1000		
BH	(60°-80°)	254.8	4.7	B1/500		G1/500
BVH	(80°-90°)	25.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9
2.5°	674.8	670.3	665.6	652.5	638.6	622.9	600.4	578.7	550.0	549.1	527.7
5°	861.9	858.9	837.8	825.7	793.4	750.4	713.9	657.3	604.8	598.6	557.1
7.5°	1033.8	1022.2	1014.2	992.3	960.3	905.1	834.6	758.1	670.3	662.0	593.2
10°	1163.4	1162.2	1158.0	1139.1	1115.0	1060.2	981.9	872.2	753.3	737.0	637.1
12.5°	1260.3	1261.2	1260.6	1260.3	1243.1	1196.6	1111.8	996.2	837.2	825.7	687.8
15°	1324.1	1332.9	1336.5	1351.3	1352.8	1321.7	1248.7	1115.9	931.8	914.6	742.4
17.5°	1366.2	1370.6	1387.2	1412.4	1432.9	1427.2	1362.3	1226.8	1028.5	999.7	799.0
20°	1406.5	1414.2	1426.9	1461.3	1497.5	1514.1	1468.4	1340.4	1124.2	1105.8	861.6
22.5°	1490.4	1501.3	1505.8	1523.3	1554.1	1583.5	1562.7	1449.2	1229.2	1204.3	928.0
25°	1632.4	1643.9	1631.5	1627.3	1637.4	1652.0	1647.5	1551.7	1328.2	1292.6	990.8
27.5°	1817.4	1818.9	1794.6	1771.4	1746.5	1739.1	1725.5	1642.8	1414.2	1384.5	1054.0
30°	2016.0	2008.9	1968.6	1926.8	1884.7	1843.2	1804.0	1730.5	1509.9	1475.8	1115.9
32.5°	2200.4	2196.6	2151.8	2086.9	2015.7	1976.6	1897.4	1819.2	1612.5	1579.6	1179.7
35°	2338.6	2344.2	2295.0	2224.2	2146.5	2111.8	2011.9	1912.3	1718.7	1682.8	1249.0
37.5°	2436.7	2433.8	2390.2	2328.8	2260.6	2230.4	2145.6	2013.9	1832.8	1798.4	1324.9
40°	2471.7	2469.9	2437.6	2392.8	2349.6	2338.9	2285.5	2123.6	1963.5	1923.2	1416.3
42.5°	2449.5	2453.3	2432.0	2419.8	2411.8	2419.5	2424.6	2267.4	2106.2	2069.1	1515.3
45°	2381.3	2379.2	2376.2	2396.1	2441.2	2491.9	2562.1	2403.2	2261.2	2231.6	1648.1
47.5°	2259.4	2274.3	2281.7	2336.5	2434.9	2555.0	2720.4	2585.3	2486.2	2460.4	1850.6
50°	2089.0	2100.8	2144.7	2242.2	2389.0	2578.7	2875.2	2882.9	2861.6	2813.2	2070.6
52.5°	1822.7	1841.1	1931.5	2110.3	2294.7	2568.9	2968.9	3138.2	3166.3	3130.2	2287.3
55°	1524.8	1550.6	1646.0	1880.5	2164.9	2515.6	3033.5	3286.1	3398.5	3365.0	2496.0
57.5°	1233.0	1260.3	1358.4	1585.5	1938.3	2397.6	3075.9	3451.0	3714.5	3670.9	2755.7
60°	924.1	952.6	1036.8	1270.7	1615.8	2166.9	3047.2	3593.9	4030.3	4011.6	3015.7
62.5°	596.2	627.6	700.9	894.5	1241.9	1851.8	2893.3	3672.7	4303.6	4281.1	3205.5
65°	363.2	366.7	407.1	555.3	850.0	1433.7	2541.4	3568.1	4447.7	4440.9	3263.3
67.5°	234.8	240.4	258.8	332.6	509.6	995.9	2032.0	3222.7	4363.5	4361.1	3143.8
70°	198.3	200.1	208.4	224.4	296.2	603.9	1426.9	2672.1	4043.6	4043.6	2856.5
72.5°	177.3	179.7	182.6	187.7	211.4	342.1	851.5	2080.1	3491.3	3514.4	2431.4
75°	161.0	160.4	162.2	163.1	180.3	223.5	440.3	1538.4	2700.9	2654.6	1760.8
77.5°	137.9	138.7	137.9	141.7	159.2	170.2	223.5	1032.3	1636.8	1576.9	883.8
80°	113.3	114.7	116.2	118.6	136.1	129.3	134.3	470.5	605.4	592.7	273.1
82.5°	85.1	87.2	89.5	95.2	107.0	85.4	84.8	201.0	218.5	200.1	100.5
85°	34.4	40.6	61.4	67.0	67.3	46.8	52.2	83.9	89.2	87.2	39.4
87.5°	8.0	9.5	19.9	29.9	27.6	17.5	19.3	27.3	31.1	28.8	13.3
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°	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9
2.5°	517.9	507.6	489.8	476.1	466.4	457.8	452.4	449.2	448.0	447.7	448.0
5°	535.4	517.1	488.9	471.1	461.3	455.7	452.4	452.1	452.4	452.7	451.8
7.5°	559.4	533.1	496.3	479.7	472.3	468.1	466.7	466.1	466.4	466.1	466.1
10°	591.5	555.3	510.8	493.6	487.4	482.7	480.3	478.8	477.6	476.4	475.8
12.5°	626.7	579.9	526.5	509.9	501.0	493.6	488.3	484.4	481.8	479.1	478.5
15°	666.2	606.0	544.0	520.9	508.2	497.2	488.0	481.8	477.0	473.2	472.9
17.5°	703.8	630.6	555.9	525.9	507.3	491.9	479.7	471.1	465.2	460.1	459.5
20°	744.2	654.0	561.2	522.7	498.4	479.7	463.7	453.3	446.5	440.9	440.0
22.5°	784.8	673.9	560.6	512.3	483.0	461.0	444.1	433.1	425.1	419.5	417.4
25°	823.6	689.9	553.2	495.7	461.6	438.8	421.6	411.5	404.4	397.6	397.6
27.5°	858.6	699.4	539.3	475.5	439.7	415.7	402.0	392.8	386.3	381.9	379.2
30°	893.0	703.8	520.3	450.0	416.5	396.1	385.1	379.8	373.9	368.8	368.2
32.5°	923.8	702.9	496.6	425.1	394.6	380.1	375.6	371.5	365.3	358.1	356.4
35°	953.8	697.0	468.4	397.9	376.2	370.6	371.8	365.8	354.6	345.7	344.2
37.5°	986.4	686.3	437.6	375.6	360.8	366.1	369.1	356.1	337.7	323.7	320.5
40°	1024.0	674.2	405.6	353.4	348.7	362.0	362.0	338.0	312.8	304.2	301.8
42.5°	1068.2	664.1	378.9	334.7	338.6	351.9	350.4	314.0	303.6	299.1	298.0
45°	1138.2	660.5	351.3	318.4	330.3	340.1	327.9	305.7	299.7	296.2	295.0
47.5°	1248.7	664.7	327.0	306.3	320.8	328.2	302.7	300.0	295.9	290.8	290.2
50°	1351.3	660.8	309.8	299.4	312.5	314.0	292.3	293.2	290.8	285.2	284.0
52.5°	1435.2	648.7	298.8	295.9	305.4	289.1	282.5	285.8	284.9	277.8	276.6
55°	1527.4	641.3	293.5	295.9	300.6	267.4	273.3	278.1	276.9	271.9	271.6
57.5°	1639.2	642.8	289.7	296.8	295.9	256.5	264.2	269.8	269.5	268.0	268.0
60°	1753.6	643.3	283.7	296.5	290.2	247.9	254.7	262.7	263.3	264.2	264.2
62.5°	1791.6	617.6	272.2	291.1	277.8	239.6	245.8	256.7	256.2	258.5	258.8
65°	1720.7	546.1	255.0	279.0	261.8	233.6	239.0	249.0	245.8	252.0	253.2
67.5°	1566.3	451.8	228.3	257.0	244.0	227.4	234.5	238.4	232.4	244.6	244.9
70°	1353.7	352.8	194.5	225.9	223.8	220.9	231.0	225.0	216.7	231.5	228.6
72.5°	1131.9	269.5	155.4	184.7	196.9	211.1	224.7	207.8	196.3	200.7	195.4
75°	850.3	199.2	124.8	144.7	164.0	197.2	219.1	187.1	169.3	165.1	164.0
77.5°	433.4	130.2	93.4	108.2	123.0	178.2	211.4	162.8	140.2	133.7	130.7
80°	154.8	80.9	65.8	74.7	83.0	153.3	184.7	134.6	108.8	107.6	108.8
82.5°	71.7	52.2	44.2	48.9	49.2	102.3	140.8	100.5	82.7	125.7	106.1
85°	30.8	26.1	24.9	24.3	22.5	45.7	79.2	54.0	84.2	37.7	34.7
87.5°	9.2	10.4	9.2	6.8	5.0	5.0	8.0	3.0	2.1	1.5	1.5
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)