

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: P458564

Luminaire Tested: **GALN-SA1B-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5319 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

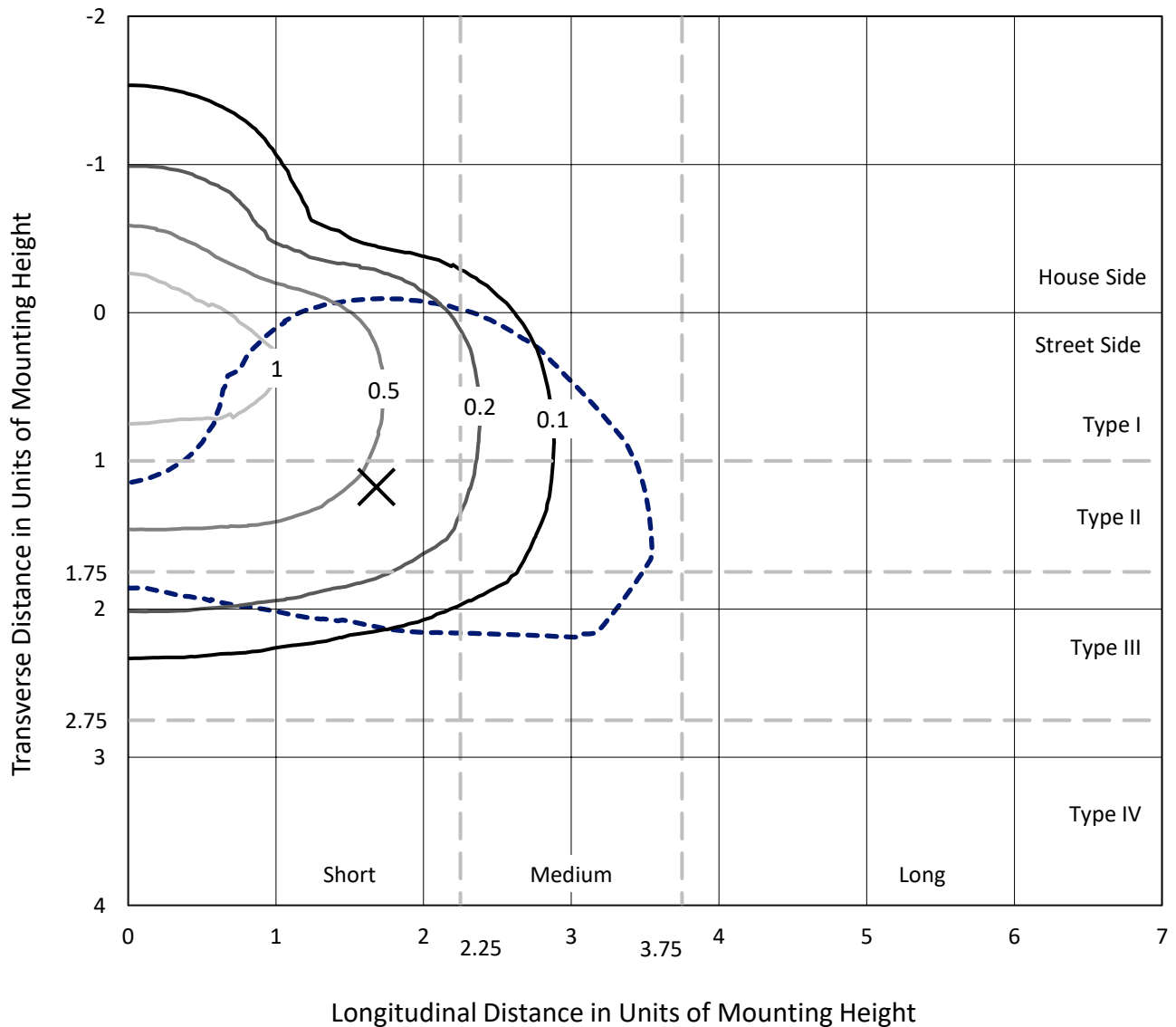
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458564
 CATALOG NUMBER: GALN-SA1B-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

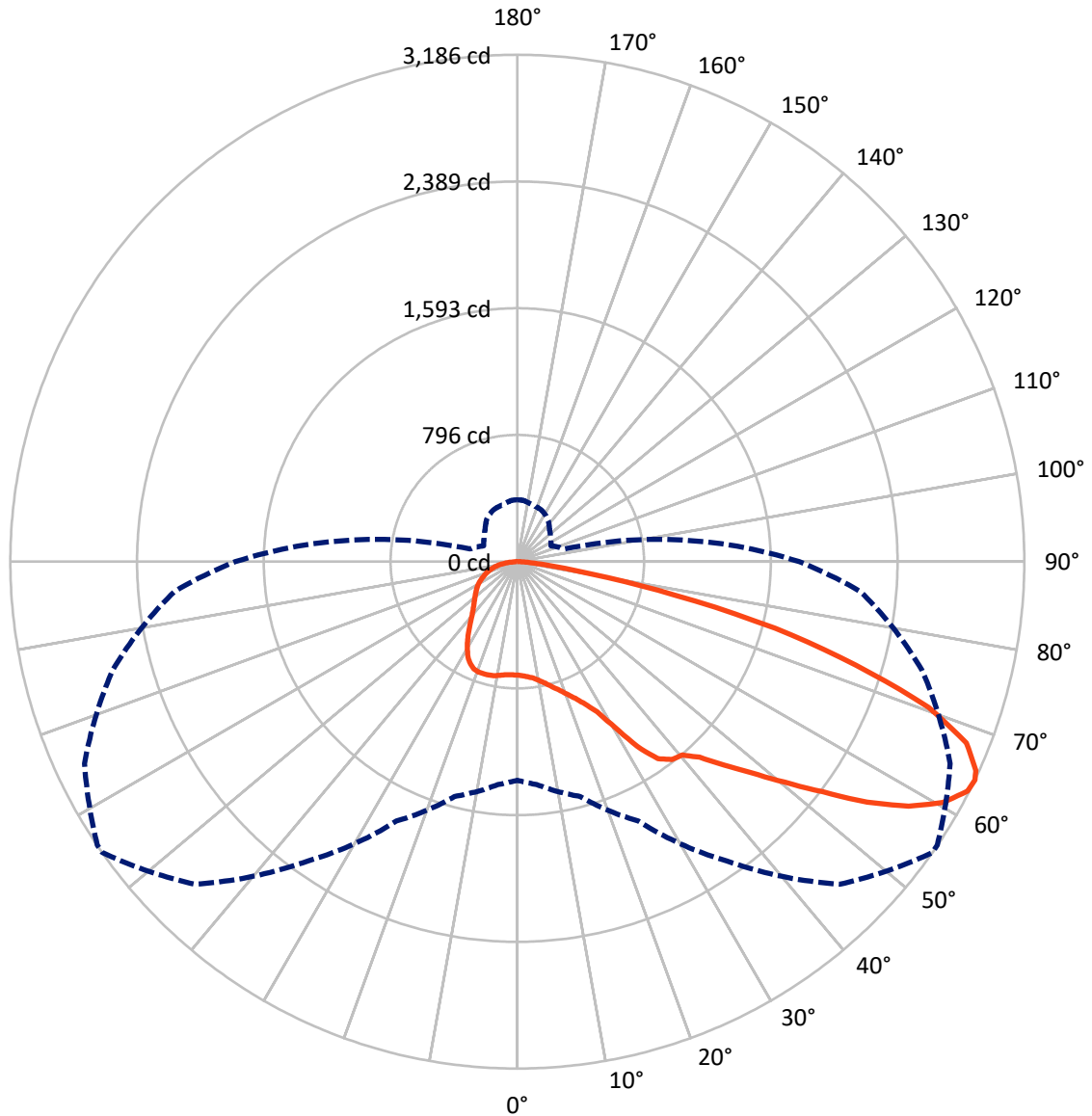
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

REPORT NUMBER: P458564
CATALOG NUMBER: GALN-SA1B-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: GALN-SA1B-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1292.1	0.0	1292.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	4026.9	0.0	4026.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	5319.0	0.0	5319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.3
10°-20°	219.0	4.1
20°-30°	389.9	7.3
30°-40°	600.0	11.3
40°-50°	850.5	16.0
50°-60°	1231.1	23.1
60°-70°	1274.1	24.0
70°-80°	596.6	11.2
80°-90°	88.3	1.7
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°	5319.0	100.0
0°-180°	5319.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458564

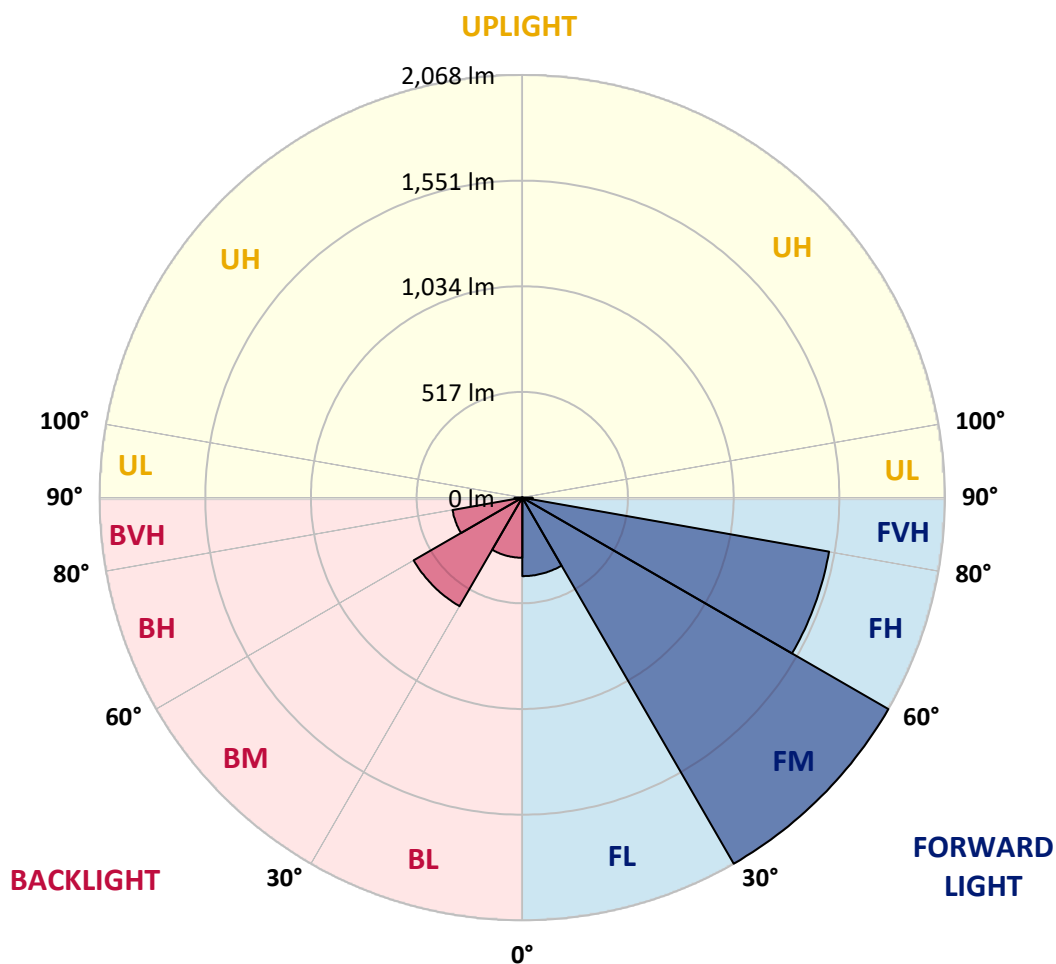
CATALOG NUMBER: GALN-SA1B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.1	7.2			
FM	(30°-60°)	2068.2	38.9			
FH	(60°-80°)	1524.1	28.7			G1/1800
FVH	(80°-90°)	50.6	1.0			G1/100
BL	(0°-30°)	294.3	5.5	B1/500		
BM	(30°-60°)	613.4	11.5	B1/1000		
BH	(60°-80°)	346.6	6.5	B1/500		G1/500
BVH	(80°-90°)	37.8	0.7			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 III Short





REPORT NUMBER: P458564

CATALOG NUMBER: GALN-SA1B-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	713.6	713.6	713.6	713.6	713.6	713.6	713.6	713.6	713.6	713.6	713.6
2.5°	721.7	721.4	722.2	721.4	722.0	719.9	719.0	719.6	718.7	717.2	714.5
5°	730.5	730.3	730.5	729.4	730.0	728.8	726.7	727.3	725.8	722.5	718.7
7.5°	745.7	744.5	744.5	744.2	743.0	741.2	739.7	739.1	737.7	733.5	727.6
10°	765.2	765.2	765.5	763.2	764.6	761.4	759.9	759.6	754.6	749.2	740.9
12.5°	791.0	792.5	791.6	790.4	789.8	788.7	783.6	784.8	779.2	770.0	759.9
15°	823.1	825.4	823.9	823.4	821.9	817.4	815.3	814.5	807.0	793.7	780.4
17.5°	865.5	862.5	861.3	859.8	853.6	850.3	846.8	846.2	839.7	823.9	803.2
20°	902.5	906.7	904.3	902.8	896.6	890.4	887.7	886.8	881.2	864.0	830.8
22.5°	946.7	947.6	948.5	944.9	941.9	937.2	932.5	931.0	928.9	911.1	870.5
25°	993.8	997.4	994.4	990.9	987.3	987.0	991.5	990.9	990.0	972.8	923.3
27.5°	1070.6	1073.9	1074.8	1070.9	1057.3	1058.5	1068.5	1071.8	1085.4	1057.0	991.2
30°	1113.9	1117.2	1124.6	1139.1	1160.8	1179.7	1204.0	1211.5	1224.5	1170.8	1071.8
32.5°	1140.6	1141.8	1155.1	1182.1	1247.0	1317.9	1384.0	1386.7	1395.0	1319.7	1145.6
35°	1182.7	1183.6	1194.3	1223.9	1300.1	1418.1	1520.4	1523.7	1516.8	1365.9	1180.0
37.5°	1234.6	1237.0	1243.8	1268.4	1359.4	1502.0	1577.0	1574.7	1514.2	1402.7	1240.8
40°	1310.2	1310.2	1302.2	1335.4	1422.0	1550.0	1596.9	1592.7	1576.7	1509.1	1333.3
42.5°	1376.9	1375.7	1394.7	1417.2	1500.2	1624.2	1680.2	1687.0	1713.4	1642.8	1438.6
45°	1463.8	1469.1	1479.8	1520.7	1633.4	1750.8	1823.1	1829.6	1867.0	1800.3	1561.6
47.5°	1551.5	1553.3	1586.8	1641.4	1798.2	1922.4	1981.7	1992.4	2026.5	1984.4	1694.1
50°	1613.8	1630.7	1684.4	1770.3	1968.1	2131.8	2178.0	2190.8	2250.9	2184.8	1848.6
52.5°	1679.6	1696.2	1761.7	1892.8	2163.2	2345.8	2402.7	2411.3	2473.9	2387.6	2006.6
55°	1735.9	1751.4	1825.8	2001.3	2318.5	2564.3	2667.5	2657.4	2687.4	2543.9	2128.5
57.5°	1745.1	1757.6	1851.3	2070.7	2435.4	2751.7	2899.7	2905.6	2870.9	2660.7	2229.0
60°	1674.0	1699.5	1807.1	2063.3	2487.8	2882.2	3072.8	3077.0	2978.5	2720.6	2269.0
62.5°	1548.0	1545.3	1675.5	1944.1	2414.3	2911.8	3174.8	3170.4	3020.6	2691.8	2230.2
64°	1373.9	1406.0	1527.5	1797.6	2295.7	2866.2	3185.5	3183.1	3000.5	2631.9	2164.1
65°	1267.8	1266.0	1386.1	1677.8	2177.7	2797.4	3166.5	3163.2	2958.4	2578.3	2112.8
67.5°	915.3	919.4	1038.0	1294.8	1770.3	2528.5	3042.9	3030.7	2792.3	2400.4	1917.7
70°	554.4	556.8	649.9	858.9	1270.8	2044.0	2742.8	2743.4	2538.2	2134.7	1632.2
72.5°	292.0	298.3	335.6	487.7	771.8	1434.1	2225.2	2277.9	2179.2	1821.9	1289.4
75°	162.5	163.4	189.8	240.5	393.7	802.6	1672.5	1687.6	1725.3	1466.4	953.5
77.5°	123.9	125.7	134.0	155.4	214.4	372.1	1012.2	1088.1	1215.9	1033.9	544.1
80°	100.5	102.3	109.4	122.2	142.6	176.4	470.2	511.1	650.8	459.0	212.3
82.5°	78.3	77.1	86.3	94.6	103.8	104.4	193.0	213.5	265.1	197.5	91.9
85°	58.1	58.1	65.5	63.7	67.0	61.1	85.1	94.0	106.1	83.9	42.7
87.5°	23.1	25.5	43.0	38.5	29.9	24.0	31.4	33.2	36.8	32.9	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458564
 CATALOG NUMBER: GALN-SA1B-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	713.6	713.6	713.6	713.6	713.6	713.6	713.6	713.6	713.6	713.6	713.6
2.5°	714.8	715.7	713.6	712.2	711.6	710.7	709.8	710.1	711.3	712.5	712.2
5°	718.4	718.7	715.1	713.4	712.2	711.0	711.0	711.9	714.2	716.0	716.0
7.5°	727.3	727.3	722.2	719.0	717.2	715.1	714.5	714.8	716.6	719.0	719.3
10°	741.2	740.0	733.5	728.5	725.2	720.2	715.7	713.4	714.2	715.7	715.7
12.5°	758.1	754.9	746.6	739.7	731.7	722.2	713.1	708.3	708.0	709.5	708.9
15°	776.2	772.7	761.1	748.6	734.7	720.8	709.8	703.0	697.6	696.2	699.4
17.5°	797.3	789.8	773.8	756.6	735.9	717.8	700.6	686.7	677.2	674.5	675.4
20°	822.8	813.0	791.3	764.3	735.0	707.1	680.4	661.8	646.3	641.6	642.2
22.5°	858.0	841.1	809.4	768.2	727.6	687.0	649.9	625.6	606.9	599.5	603.9
25°	898.1	879.7	826.6	767.3	708.3	654.6	613.7	582.0	565.1	554.1	556.5
27.5°	953.2	920.6	845.0	759.3	680.7	615.2	567.8	537.8	522.4	516.8	519.4
30°	1023.8	973.7	864.9	737.7	637.2	565.4	521.5	502.0	492.8	485.6	488.0
32.5°	1074.8	1011.0	869.3	701.2	590.0	520.0	490.1	475.6	465.5	458.7	460.2
35°	1111.2	1042.8	867.2	656.4	540.8	482.7	465.2	453.3	437.0	422.2	419.5
37.5°	1160.2	1082.5	852.1	607.5	492.2	457.5	445.0	423.1	399.7	379.8	378.9
40°	1235.2	1129.0	819.8	550.0	450.7	438.8	423.7	395.2	370.0	354.0	352.8
42.5°	1312.6	1172.0	775.9	489.5	416.6	419.2	400.9	372.7	357.3	346.9	345.7
45°	1407.1	1218.6	728.5	437.0	391.4	400.9	381.0	364.7	355.5	348.7	346.9
47.5°	1509.4	1266.3	675.1	389.9	370.0	384.0	372.7	365.3	360.2	355.5	353.4
50°	1619.7	1319.7	625.0	351.9	350.7	366.5	371.8	369.1	366.2	364.7	362.9
52.5°	1740.7	1374.2	582.9	325.2	333.8	354.0	372.1	374.2	374.2	373.3	372.1
55°	1822.5	1412.2	540.2	303.6	316.7	343.9	371.5	379.5	382.5	381.3	380.1
57.5°	1883.0	1432.9	486.5	284.9	302.1	334.1	368.2	380.1	383.1	384.5	384.0
60°	1895.5	1413.7	416.3	265.4	286.4	319.9	356.4	371.2	375.1	384.2	385.1
62.5°	1839.4	1354.4	346.3	246.1	267.1	298.3	340.4	361.1	368.8	383.1	384.5
64°	1770.6	1287.9	307.5	233.9	254.7	286.1	332.4	358.5	368.5	387.5	388.7
65°	1720.2	1239.6	283.1	226.2	246.7	278.1	327.9	359.3	371.2	394.3	396.1
67.5°	1534.6	1073.3	234.2	208.1	227.7	264.5	328.8	366.8	370.6	397.0	396.7
70°	1269.9	854.5	196.3	191.5	209.3	253.5	325.2	354.9	355.2	372.7	368.5
72.5°	950.8	631.5	170.2	174.3	188.9	227.4	307.2	338.9	333.8	336.2	332.1
75°	653.2	417.8	146.5	156.0	167.5	201.0	281.7	307.8	299.8	296.8	293.8
77.5°	348.7	231.0	121.9	137.9	145.6	173.7	245.8	271.0	262.7	251.1	247.3
80°	141.1	108.8	98.1	114.1	118.6	139.9	204.6	220.3	214.1	193.9	187.4
82.5°	70.9	65.2	77.1	89.8	90.1	99.9	152.1	166.9	153.0	128.4	122.7
85°	37.1	38.2	53.1	63.2	55.7	54.0	91.3	101.1	92.8	80.6	72.6
87.5°	13.3	15.4	27.9	27.6	19.6	10.4	20.2	9.8	5.3	3.3	4.2
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)