

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: P450326

Luminaire Tested: **GALN-SA1A-760-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450326  
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-SA1A-760-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4716 lumens  
Efficiency: N/A  
Efficacy: 142.9 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

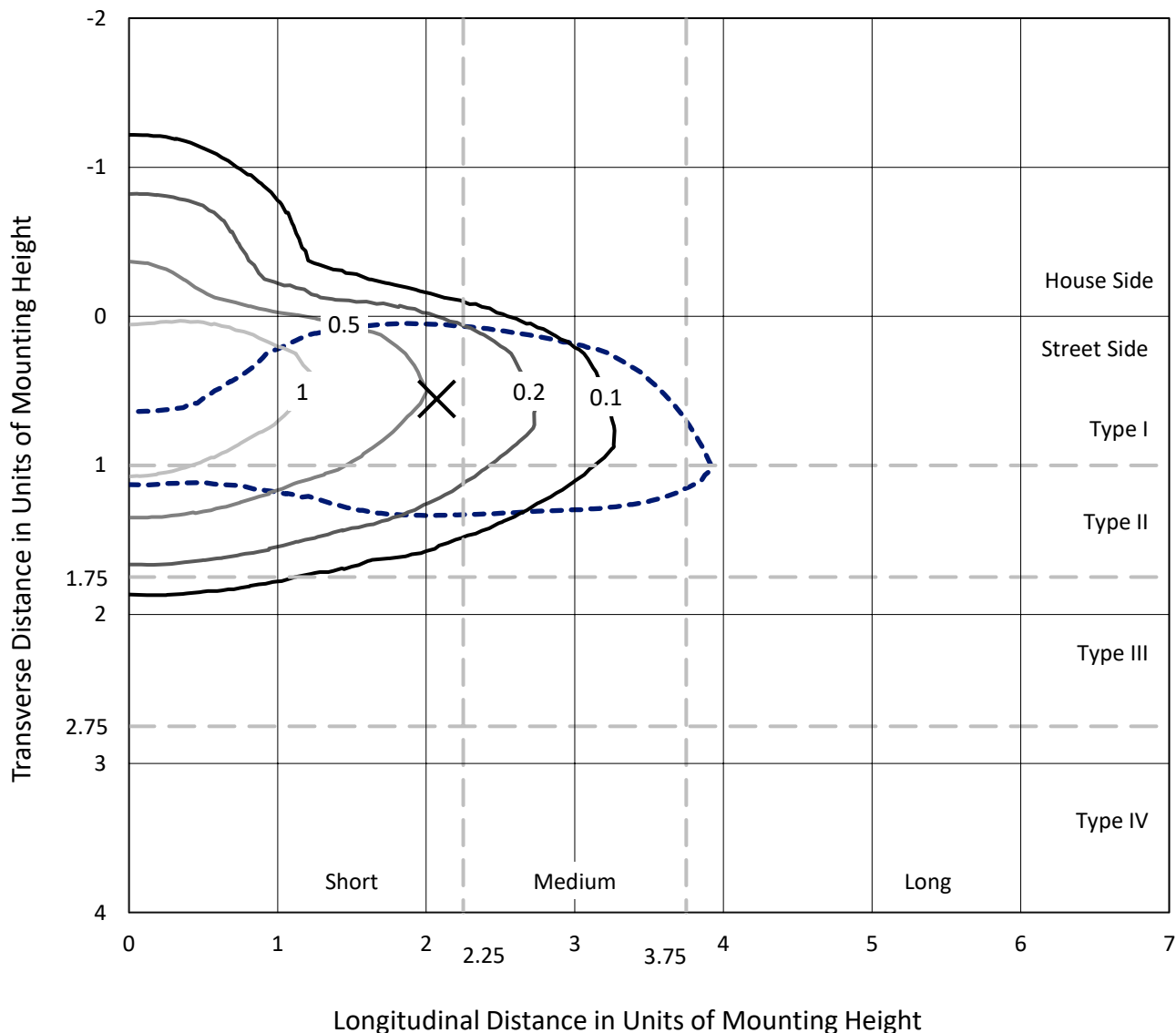
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

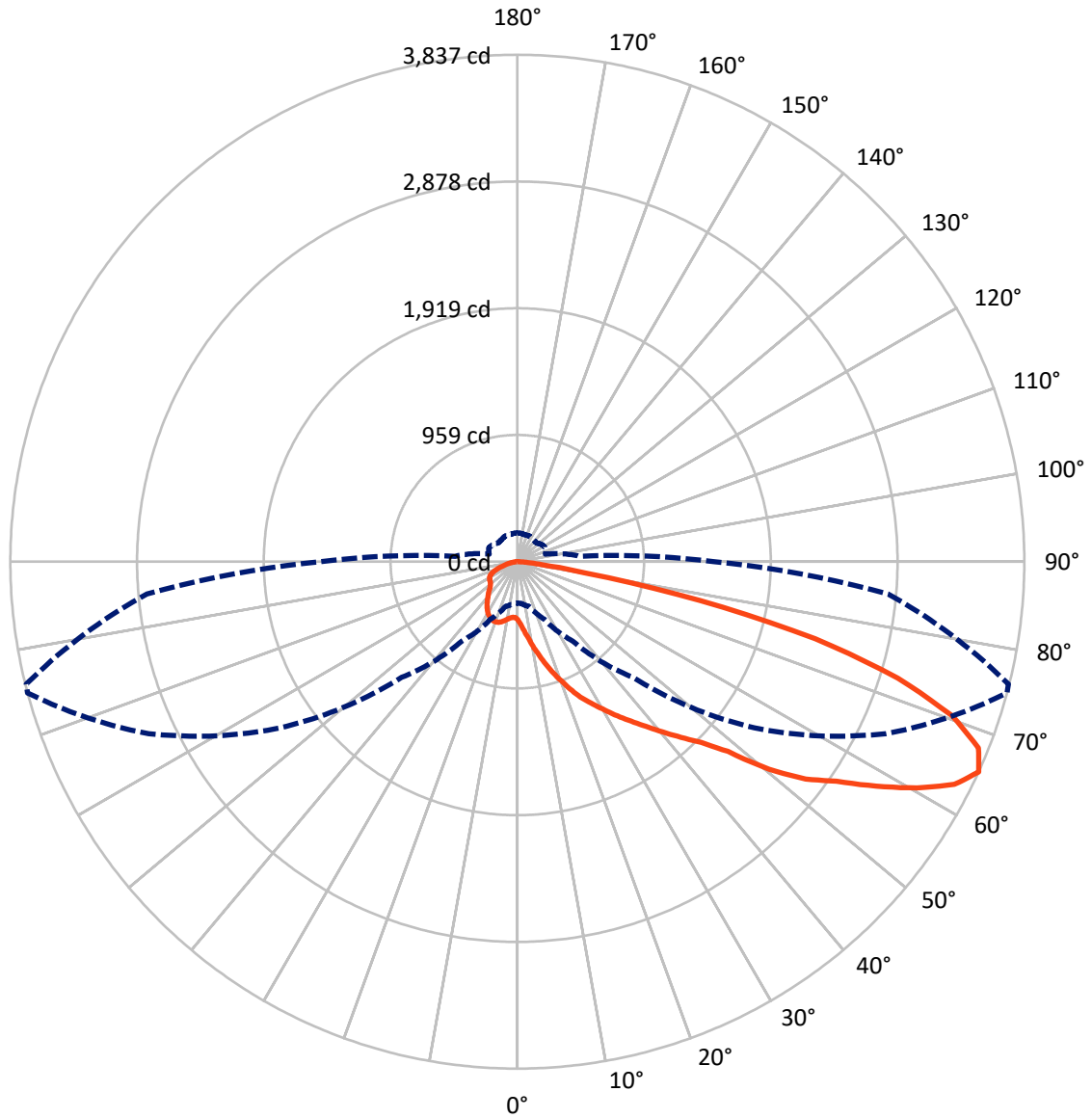
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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
<b>House Side</b>	Lumens	792.8	0.0	792.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	3923.2	0.0	3923.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	4716.0	0.0	4716.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	1.1
10°-20°	208.5	4.4
20°-30°	402.8	8.5
30°-40°	654.3	13.9
40°-50°	900.0	19.1
50°-60°	1062.6	22.5
60°-70°	931.0	19.7
70°-80°	444.5	9.4
80°-90°	59.1	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°	4716.0	100.0
0°-180°	4716.0	100.0

**Coefficient of Utilization**



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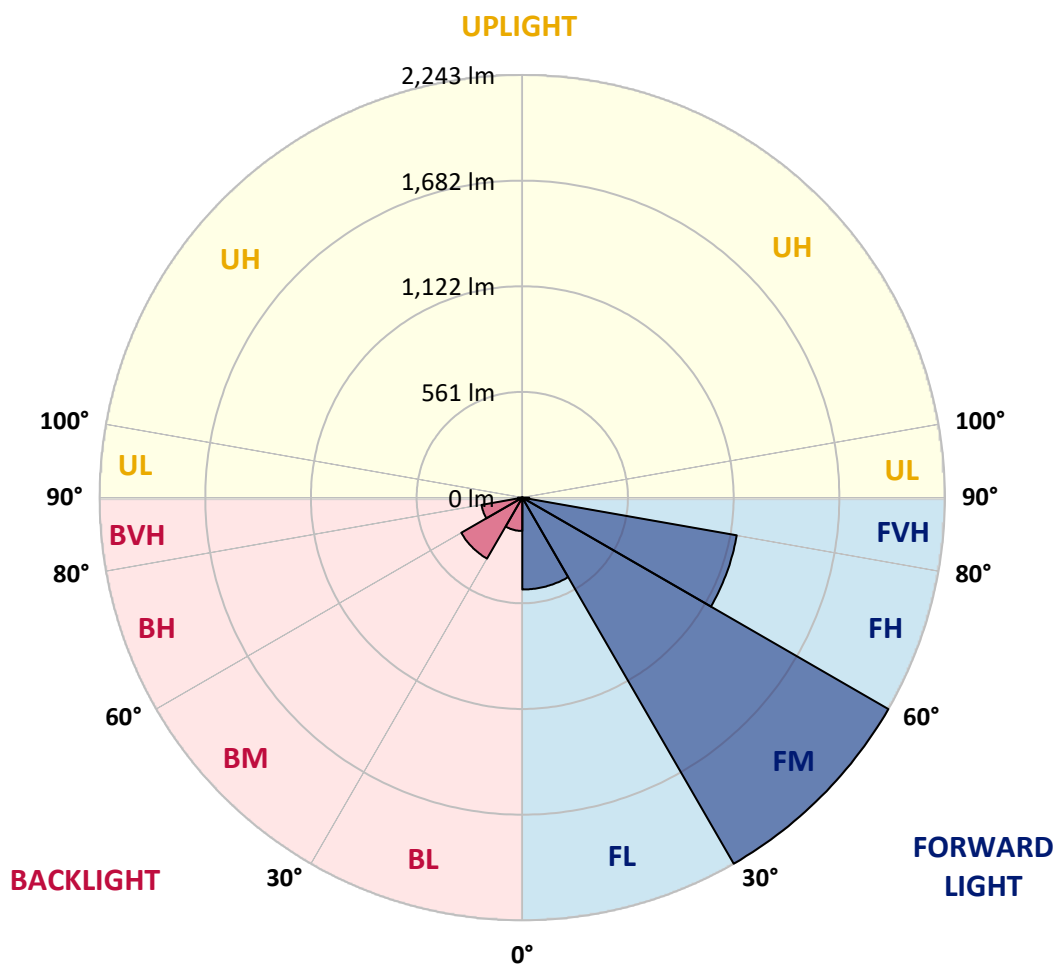
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.6	10.3			
FM (30°-60°)	2243.0	47.6			
FH (60°-80°)	1155.6	24.5			G1/1800
FVH (80°-90°)	37.0	0.8			G1/100
BL (0°-30°)	177.0	3.8	B1/500		
BM (30°-60°)	373.8	7.9	B1/1000		
BH (60°-80°)	219.8	4.7	B1/500		G1/500
BVH (80°-90°)	22.2	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°	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2
2.5°	582.2	578.4	574.3	563.0	551.0	537.4	518.0	499.3	474.5	473.7	455.3
5°	743.6	741.0	722.9	712.4	684.5	647.4	616.0	567.1	521.8	516.4	480.6
7.5°	892.0	882.0	875.1	856.1	828.5	780.9	720.1	654.1	578.4	571.2	511.8
10°	1003.7	1002.7	999.1	982.8	962.0	914.7	847.2	752.5	650.0	635.9	549.7
12.5°	1087.4	1088.1	1087.6	1087.4	1072.5	1032.4	959.2	859.5	722.4	712.4	593.4
15°	1142.4	1150.1	1153.1	1165.9	1167.2	1140.3	1077.4	962.8	804.0	789.1	640.5
17.5°	1178.7	1182.5	1196.9	1218.6	1236.3	1231.4	1175.4	1058.5	887.4	862.5	689.4
20°	1213.5	1220.1	1231.1	1260.8	1292.0	1306.3	1267.0	1156.4	970.0	954.1	743.3
22.5°	1285.9	1295.3	1299.2	1314.3	1340.9	1366.2	1348.3	1250.3	1060.5	1039.0	800.6
25°	1408.4	1418.4	1407.6	1404.1	1412.8	1425.3	1421.4	1338.8	1146.0	1115.3	854.9
27.5°	1568.0	1569.3	1548.3	1528.4	1506.9	1500.5	1488.7	1417.4	1220.1	1194.6	909.3
30°	1739.4	1733.3	1698.5	1662.4	1626.1	1590.3	1556.5	1493.1	1302.8	1273.3	962.8
32.5°	1898.5	1895.2	1856.6	1800.5	1739.1	1705.4	1637.1	1569.6	1391.3	1362.9	1017.8
35°	2017.7	2022.6	1980.1	1919.0	1852.0	1822.0	1735.8	1649.9	1482.8	1451.9	1077.7
37.5°	2102.4	2099.8	2062.2	2009.3	1950.4	1924.3	1851.2	1737.6	1581.3	1551.6	1143.1
40°	2132.6	2131.0	2103.1	2064.5	2027.2	2018.0	1971.9	1832.3	1694.1	1659.3	1221.9
42.5°	2113.4	2116.7	2098.3	2087.8	2080.9	2087.5	2091.9	1956.3	1817.2	1785.2	1307.4
45°	2054.5	2052.8	2050.2	2067.3	2106.2	2150.0	2210.6	2073.5	1950.9	1925.4	1422.0
47.5°	1949.4	1962.2	1968.6	2015.9	2100.8	2204.4	2347.2	2230.5	2145.1	2122.8	1596.7
50°	1802.3	1812.6	1850.4	1934.6	2061.2	2224.9	2480.7	2487.3	2468.9	2427.2	1786.5
52.5°	1572.6	1588.5	1666.5	1820.7	1979.8	2216.5	2561.5	2707.6	2731.9	2700.7	1973.5
55°	1315.6	1337.8	1420.2	1622.5	1867.8	2170.4	2617.3	2835.2	2932.2	2903.3	2153.5
57.5°	1063.8	1087.4	1172.1	1368.0	1672.4	2068.6	2653.9	2977.4	3204.8	3167.2	2377.6
60°	797.3	821.9	894.5	1096.3	1394.1	1869.6	2629.1	3100.7	3477.3	3461.2	2601.9
62.5°	514.4	541.5	604.7	771.7	1071.5	1597.7	2496.3	3168.8	3713.1	3693.7	2765.7
65°	313.3	316.4	351.2	479.1	733.4	1237.0	2192.7	3078.5	3837.4	3831.5	2815.5
67.5°	202.6	207.4	223.3	287.0	439.7	859.2	1753.2	2780.5	3764.8	3762.7	2712.4
70°	171.1	172.7	179.8	193.6	255.5	521.1	1231.1	2305.5	3488.8	3488.8	2464.6
72.5°	153.0	155.0	157.6	161.9	182.4	295.2	734.6	1794.7	3012.2	3032.2	2097.8
75°	138.9	138.4	139.9	140.7	155.5	192.9	379.9	1327.3	2330.3	2290.4	1519.2
77.5°	118.9	119.7	118.9	122.3	137.4	146.8	192.9	890.7	1412.2	1360.6	762.5
80°	97.7	99.0	100.3	102.3	117.4	111.5	115.9	405.9	522.3	511.3	235.6
82.5°	73.4	75.2	77.2	82.1	92.3	73.7	73.2	173.4	188.5	172.7	86.7
85°	29.7	35.0	52.9	57.8	58.1	40.4	45.0	72.4	77.0	75.2	34.0
87.5°	6.9	8.2	17.1	25.8	23.8	15.1	16.6	23.5	26.9	24.8	11.5
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°	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2	438.2
2.5°	446.9	437.9	422.6	410.8	402.4	394.9	390.3	387.5	386.5	386.2	386.5
5°	462.0	446.1	421.8	406.5	398.0	393.2	390.3	390.1	390.3	390.6	389.8
7.5°	482.7	459.9	428.2	413.9	407.5	403.9	402.6	402.1	402.4	402.1	402.1
10°	510.3	479.1	440.7	425.9	420.5	416.4	414.4	413.1	412.1	411.1	410.6
12.5°	540.7	500.3	454.3	440.0	432.3	425.9	421.3	418.0	415.7	413.4	412.9
15°	574.8	522.8	469.4	449.4	438.4	429.0	421.0	415.7	411.6	408.2	408.0
17.5°	607.3	544.1	479.6	453.8	437.7	424.4	413.9	406.5	401.3	397.0	396.5
20°	642.0	564.3	484.2	451.0	430.0	413.9	400.1	391.1	385.2	380.4	379.6
22.5°	677.1	581.4	483.7	442.0	416.7	397.8	383.2	373.7	366.8	361.9	360.2
25°	710.6	595.2	477.3	427.7	398.3	378.6	363.7	355.0	348.9	343.0	343.0
27.5°	740.8	603.4	465.3	410.3	379.3	358.6	346.9	338.9	333.3	329.5	327.2
30°	770.5	607.3	448.9	388.3	359.4	341.7	332.3	327.7	322.6	318.2	317.7
32.5°	797.1	606.5	428.5	366.8	340.5	327.9	324.1	320.5	315.1	309.0	307.5
35°	822.9	601.4	404.2	343.3	324.6	319.7	320.8	315.7	305.9	298.3	297.0
37.5°	851.0	592.2	377.6	324.1	311.3	315.9	318.5	307.2	291.3	279.3	276.5
40°	883.5	581.7	349.9	304.9	300.8	312.3	312.3	291.6	269.9	262.4	260.4
42.5°	921.6	573.0	326.9	288.8	292.1	303.6	302.3	270.9	261.9	258.1	257.1
45°	982.0	569.9	303.1	274.7	285.0	293.4	282.9	263.7	258.6	255.5	254.5
47.5°	1077.4	573.5	282.1	264.2	276.8	283.2	261.2	258.9	255.3	250.9	250.4
50°	1165.9	570.2	267.3	258.4	269.6	270.9	252.2	253.0	250.9	246.1	245.1
52.5°	1238.3	559.7	257.8	255.3	263.5	249.4	243.8	246.6	245.8	239.7	238.7
55°	1317.9	553.3	253.2	255.3	259.4	230.7	235.8	239.9	238.9	234.6	234.3
57.5°	1414.3	554.6	249.9	256.1	255.3	221.3	227.9	232.8	232.5	231.2	231.2
60°	1513.0	555.1	244.8	255.8	250.4	213.8	219.7	226.6	227.1	227.9	227.9
62.5°	1545.8	532.8	234.8	251.2	239.7	206.7	212.1	221.5	221.0	223.1	223.3
65°	1484.6	471.2	220.0	240.7	225.9	201.6	206.2	214.9	212.1	217.4	218.4
67.5°	1351.4	389.8	197.0	221.8	210.5	196.2	202.3	205.7	200.5	211.0	211.3
70°	1168.0	304.4	167.8	194.9	193.1	190.6	199.3	194.1	187.0	199.8	197.2
72.5°	976.6	232.5	134.0	159.4	169.8	182.1	193.9	179.3	169.3	173.2	168.6
75°	733.6	171.9	107.7	124.8	141.5	170.1	189.0	161.4	146.1	142.5	141.5
77.5°	374.0	112.3	80.6	93.4	106.2	153.7	182.4	140.4	121.0	115.4	112.8
80°	133.5	69.8	56.8	64.5	71.6	132.2	159.4	116.1	93.9	92.9	93.9
82.5°	61.9	45.0	38.1	42.2	42.5	88.2	121.5	86.7	71.4	108.5	91.6
85°	26.6	22.5	21.5	21.0	19.4	39.4	68.3	46.6	72.6	32.5	29.9
87.5°	7.9	9.0	7.9	5.9	4.3	4.3	6.9	2.6	1.8	1.3	1.3
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)