

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: P450238

Luminaire Tested: **GALN-SA1A-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3374 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

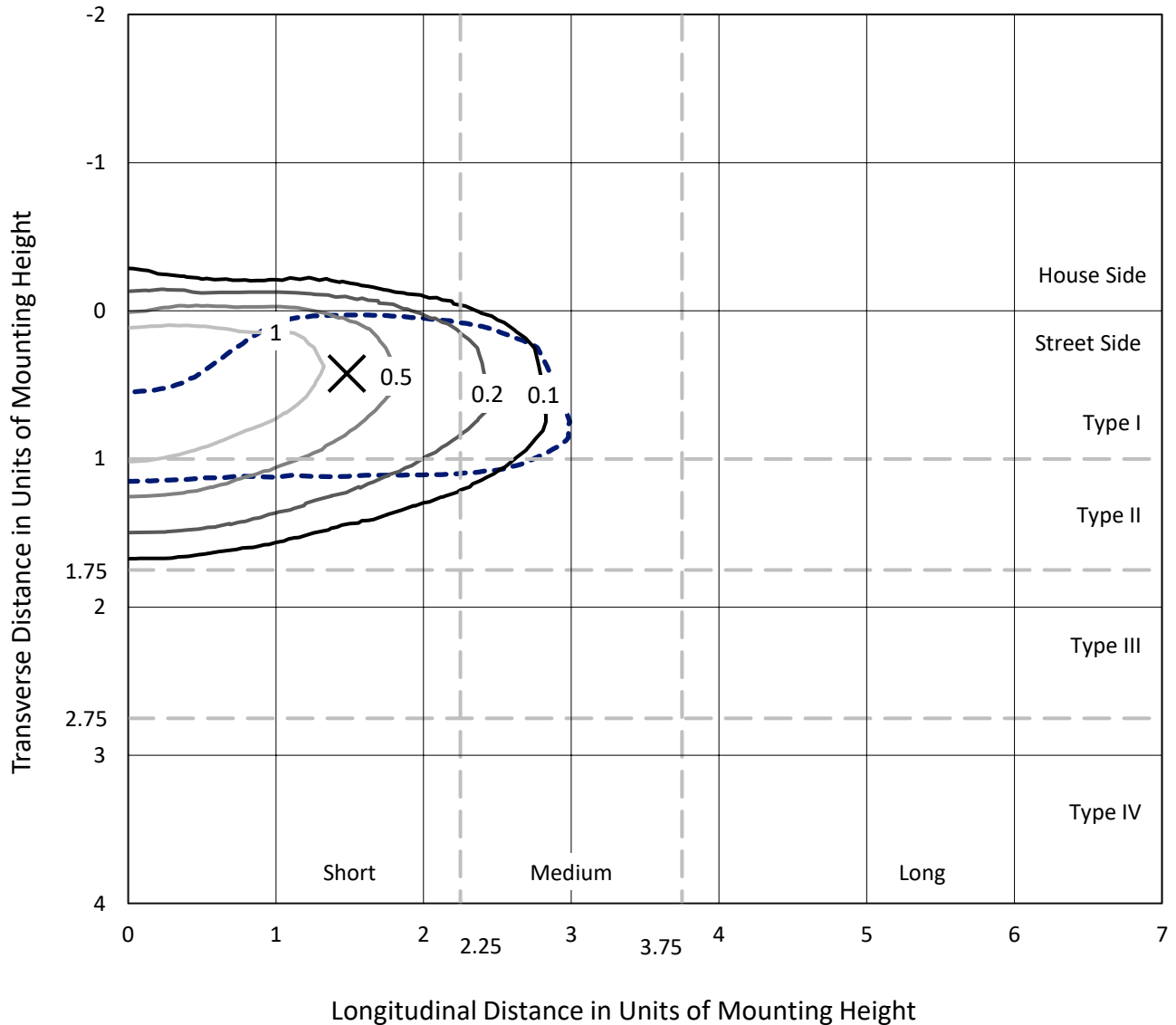
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450238  
 CATALOG NUMBER: GALN-SA1A-730-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

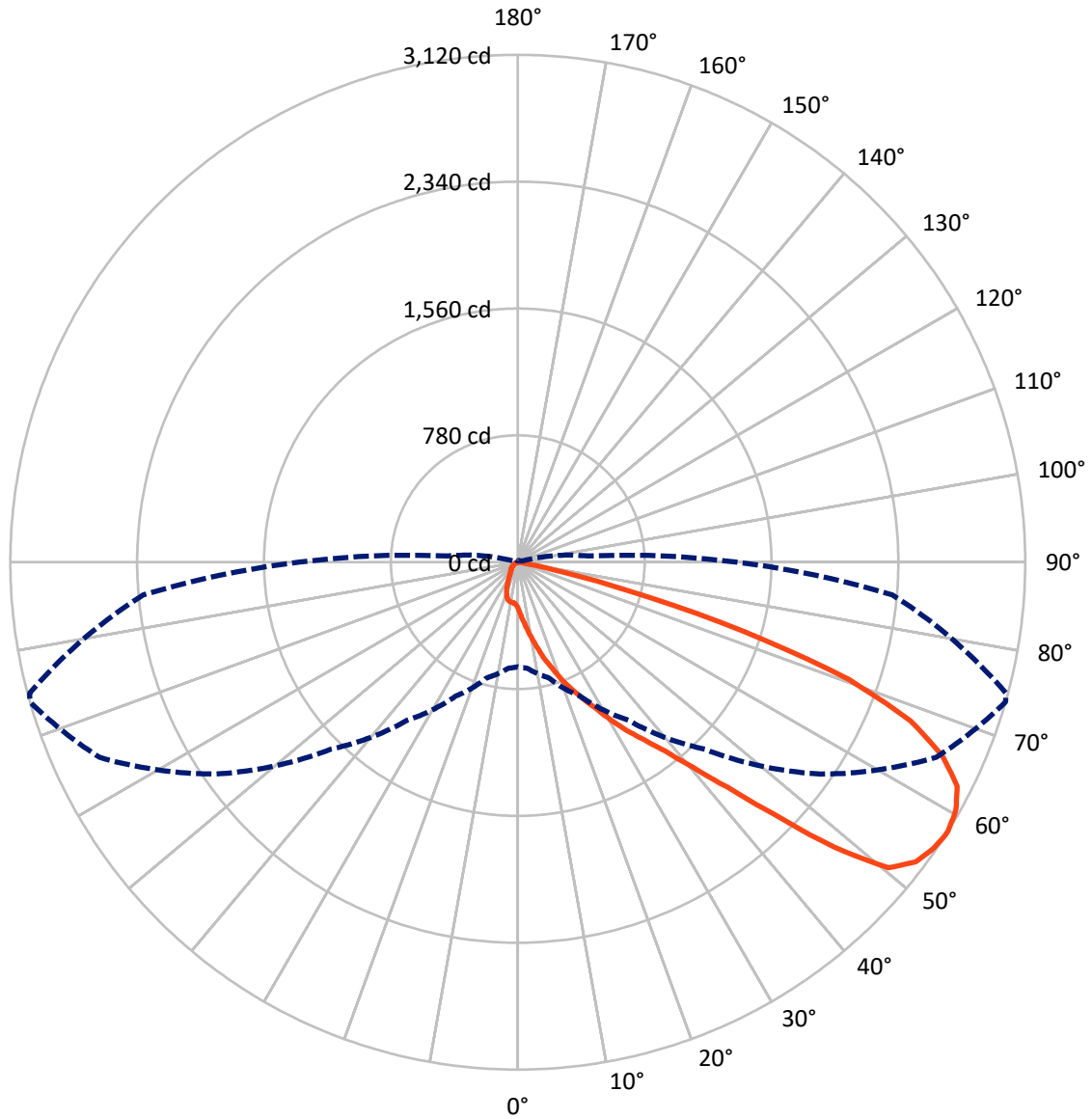
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P450238  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P450238

CATALOG NUMBER: GALN-SA1A-730-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	194.6	0.0	194.6
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	3179.4	0.0	3179.4
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	3374.0	0.0	3374.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.1	1.0
10°-20°	134.4	4.0
20°-30°	287.7	8.5
30°-40°	528.7	15.7
40°-50°	810.5	24.0
50°-60°	857.4	25.4
60°-70°	559.9	16.6
70°-80°	153.0	4.5
80°-90°	8.2	0.2
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°	3374.0	100.0
0°-180°	3374.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450238

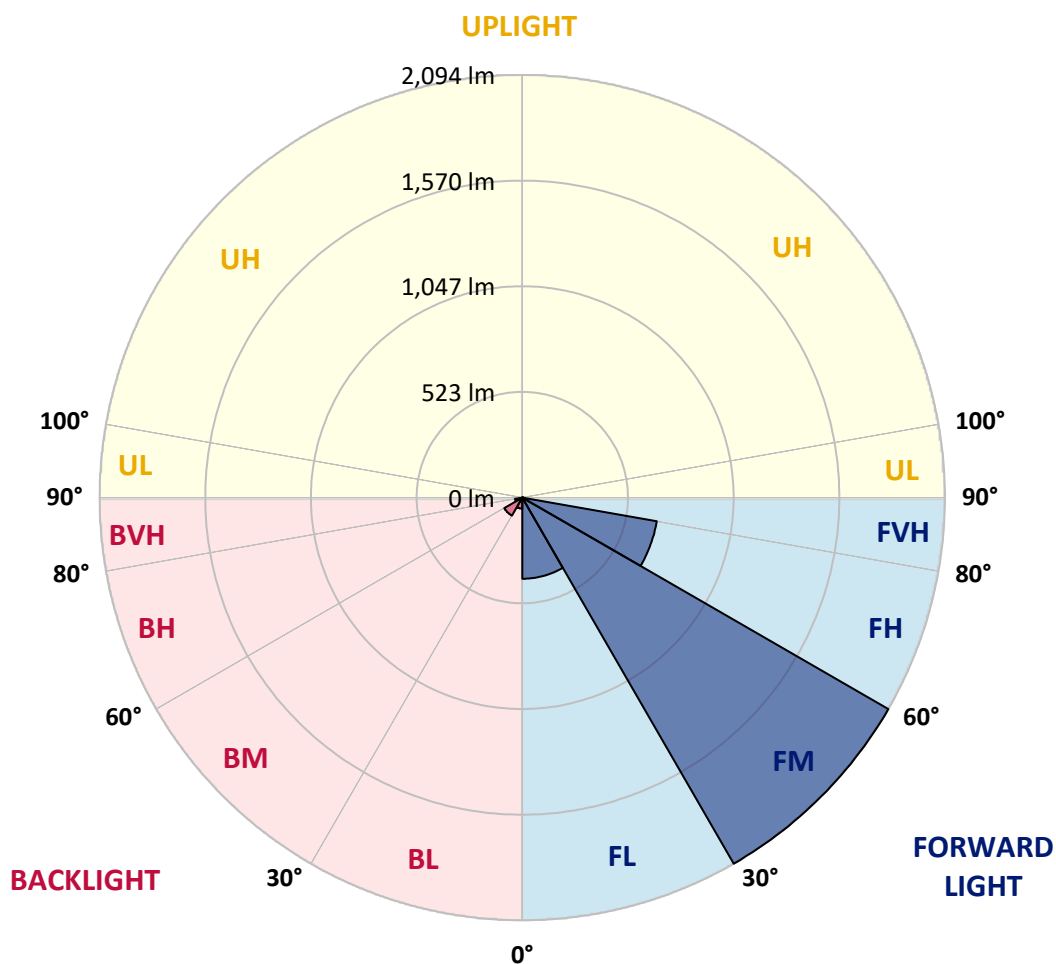
CATALOG NUMBER: GALN-SA1A-730-U-T2R-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.8	11.9			
FM	(30°-60°)	2093.6	62.1			
FH	(60°-80°)	676.4	20.0			G1/1800
FVH	(80°-90°)	7.6	0.2			G0/10
BL	(0°-30°)	54.4	1.6	B0/110		
BM	(30°-60°)	103.0	3.1	B0/220		
BH	(60°-80°)	36.5	1.1	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





REPORT NUMBER: P450238

CATALOG NUMBER: GALN-SA1A-730-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6
2.5°	413.5	409.8	402.3	399.7	388.8	371.8	356.9	336.8	321.0	319.4	300.3
5°	553.7	545.3	541.8	525.1	498.7	474.1	431.7	399.5	362.5	359.7	321.2
7.5°	688.8	677.2	673.7	657.9	627.1	588.2	533.2	474.8	416.0	410.7	349.4
10°	786.7	788.3	782.0	771.5	746.6	707.0	639.2	559.3	475.7	468.9	381.1
12.5°	856.8	856.6	857.7	857.5	844.2	814.2	742.9	650.9	541.4	528.1	417.4
15°	902.4	903.1	906.6	918.8	920.2	901.5	842.1	738.5	617.5	601.0	456.8
17.5°	948.6	953.5	959.1	970.5	980.7	973.3	931.3	829.8	686.5	674.2	499.0
20°	1024.7	1031.5	1028.2	1035.2	1040.6	1041.3	1008.9	914.1	770.1	749.4	547.2
22.5°	1146.6	1146.3	1138.0	1125.4	1114.9	1114.4	1085.1	1000.8	846.1	826.0	595.7
25°	1300.6	1301.3	1285.0	1249.1	1223.0	1191.1	1157.3	1076.7	927.4	902.7	646.7
27.5°	1477.1	1472.7	1448.0	1398.6	1346.9	1292.4	1243.7	1165.0	1013.6	993.1	705.1
30°	1635.8	1634.1	1605.3	1544.9	1476.9	1422.2	1351.6	1275.6	1125.1	1100.0	770.6
32.5°	1783.5	1785.8	1745.7	1683.3	1617.6	1554.5	1479.9	1381.4	1234.6	1199.0	841.9
35°	1898.8	1901.1	1859.6	1807.7	1740.1	1687.7	1616.7	1494.1	1342.7	1312.7	923.9
37.5°	1960.3	1963.3	1939.3	1900.2	1858.0	1831.7	1765.5	1639.3	1474.1	1455.9	1020.8
40°	1971.9	1975.4	1964.9	1954.4	1952.1	1971.0	1951.7	1810.3	1656.3	1627.9	1165.2
42.5°	1937.0	1941.6	1946.3	1969.6	2017.1	2086.3	2153.6	2042.3	1890.9	1852.6	1341.8
45°	1845.2	1844.7	1863.1	1923.5	2029.9	2177.6	2364.7	2332.8	2210.5	2165.0	1591.3
47.5°	1688.2	1685.9	1725.7	1811.7	1977.5	2194.4	2536.8	2685.4	2618.4	2576.4	1859.4
50°	1448.9	1460.4	1523.0	1643.0	1847.3	2143.6	2589.9	2916.8	2953.1	2908.6	2076.0
52.5°	1168.7	1168.2	1266.5	1429.4	1654.4	2031.8	2552.9	2958.7	3061.9	3027.9	2182.7
55°	864.9	871.0	973.3	1137.5	1404.0	1827.7	2432.0	2915.6	3103.4	3079.4	2253.1
57°	643.4	654.1	736.1	909.9	1185.9	1625.8	2271.0	2838.5	3119.7	3106.6	2311.6
57.5°	600.5	601.0	680.9	838.9	1122.1	1548.2	2224.9	2806.3	3119.2	3112.0	2321.1
60°	369.7	381.3	436.5	567.0	821.4	1208.3	1915.8	2621.6	3095.0	3105.5	2361.9
62.5°	221.3	226.2	262.1	341.7	529.5	881.9	1567.8	2385.2	3031.8	3063.8	2359.1
65°	142.3	143.5	159.8	206.9	331.0	596.1	1208.1	2072.8	2868.5	2927.2	2266.8
67.5°	110.0	111.8	118.3	135.8	192.0	371.3	854.5	1739.4	2604.4	2680.1	2043.2
70°	97.6	98.5	100.9	106.5	127.0	209.7	531.6	1358.8	2159.7	2181.1	1599.0
72.5°	79.7	82.2	89.5	91.3	100.6	130.9	295.8	912.0	1451.0	1456.4	894.5
75°	61.7	62.2	72.9	78.3	84.8	90.2	132.1	459.8	697.0	659.7	344.8
77.5°	46.1	48.2	53.1	59.9	69.2	64.5	59.2	173.3	216.4	212.5	100.2
80°	29.6	30.7	37.0	45.0	53.8	42.2	33.3	50.8	47.5	48.9	24.0
82.5°	14.9	15.1	23.8	36.6	34.2	21.2	21.0	20.7	17.7	17.5	11.2
85°	1.6	3.5	15.4	21.0	15.4	7.0	9.8	9.6	9.3	9.6	6.5
87.5°	0.2	0.2	2.6	3.0	2.1	2.3	2.8	3.0	3.7	3.5	2.8
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: P450238

CATALOG NUMBER: GALN-SA1A-730-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6
2.5°	291.0	281.6	264.4	247.9	235.5	227.6	217.3	213.6	208.3	207.6	205.0
5°	303.5	285.8	255.8	232.0	212.9	198.5	185.9	175.4	167.0	165.2	166.1
7.5°	321.5	295.1	253.2	220.8	194.3	169.6	149.6	137.2	128.4	125.1	125.6
10°	341.7	307.5	252.8	209.0	168.4	138.1	116.2	105.3	100.2	98.3	96.2
12.5°	365.7	321.7	251.6	190.6	140.0	110.2	94.6	88.1	83.2	81.8	81.8
15°	392.8	336.8	246.0	167.7	113.7	91.1	80.6	75.5	73.8	72.4	72.4
17.5°	420.9	351.8	234.3	139.5	94.3	78.0	71.5	68.5	66.2	64.5	64.5
20°	453.1	366.4	215.7	114.6	79.7	69.7	64.5	61.0	59.2	57.8	57.3
22.5°	483.6	378.3	192.0	94.1	69.4	62.7	58.0	54.3	52.4	51.7	51.7
25°	515.3	385.5	163.3	77.8	63.4	56.8	51.7	48.7	47.1	46.6	46.4
27.5°	546.0	389.7	138.1	68.0	57.8	51.5	46.6	44.3	42.6	42.2	42.4
30°	583.3	390.4	113.7	61.0	52.9	46.4	41.9	39.8	38.9	38.4	38.2
32.5°	621.0	389.5	95.5	56.8	48.2	41.9	38.2	36.6	35.9	35.2	35.2
35°	663.4	384.6	81.3	52.6	43.8	38.2	34.9	33.5	32.6	31.9	31.7
37.5°	716.1	382.0	73.1	48.0	39.8	34.7	31.7	30.3	29.6	28.7	28.4
40°	799.0	393.5	70.6	43.8	35.9	31.4	28.7	27.0	26.1	25.2	24.9
42.5°	902.4	413.5	66.4	39.6	32.4	28.4	25.6	23.8	22.1	21.0	20.5
45°	1036.4	439.8	59.9	35.2	29.4	25.2	22.6	20.3	18.2	17.2	17.0
47.5°	1176.9	465.2	54.0	31.7	26.1	22.4	19.6	17.0	15.1	14.4	14.2
50°	1263.1	470.3	50.3	27.7	22.8	19.3	16.5	14.2	13.0	12.3	12.3
52.5°	1302.4	462.2	45.2	24.2	19.8	17.0	14.2	12.3	11.6	11.2	10.9
55°	1329.9	449.6	38.4	21.0	17.0	14.4	12.6	11.2	10.2	9.8	9.6
57°	1346.0	432.6	33.3	18.4	14.7	12.6	11.2	10.0	9.1	8.2	8.2
57.5°	1346.7	426.1	31.9	18.2	14.0	12.1	10.9	9.8	8.6	7.7	7.5
60°	1326.0	381.3	25.6	15.4	11.2	10.2	9.1	7.7	6.1	5.1	4.9
62.5°	1259.3	324.5	21.2	13.0	9.1	7.9	6.5	5.8	4.2	3.0	3.0
65°	1158.5	263.2	18.2	10.5	7.5	5.8	4.4	4.2	2.6	1.4	1.2
67.5°	1012.6	205.0	15.4	8.6	6.3	4.2	3.0	2.8	1.4	0.5	0.0
70°	771.5	139.8	12.8	7.0	4.7	3.0	2.1	1.6	0.9	0.2	0.0
72.5°	444.7	76.9	10.7	5.4	3.5	2.3	1.6	0.9	0.9	0.0	0.0
75°	158.9	33.1	8.2	4.0	2.8	1.9	1.2	0.5	0.7	0.2	0.0
77.5°	50.6	17.7	5.4	3.0	2.3	1.4	0.9	0.5	0.5	0.2	0.0
80°	14.9	9.3	3.3	2.6	1.6	1.2	0.7	0.2	0.5	0.2	0.0
82.5°	8.2	4.7	2.6	1.9	1.6	0.9	0.7	0.2	0.2	0.2	0.0
85°	4.2	2.8	2.1	1.9	1.6	0.9	0.7	0.2	0.0	0.2	0.2
87.5°	2.3	2.1	2.1	1.9	1.6	1.2	0.7	0.2	0.0	0.0	0.0
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)