

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: P450499

Luminaire Tested: **GALN-SA1B-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450499  
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-SA1B-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA 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: 4610 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

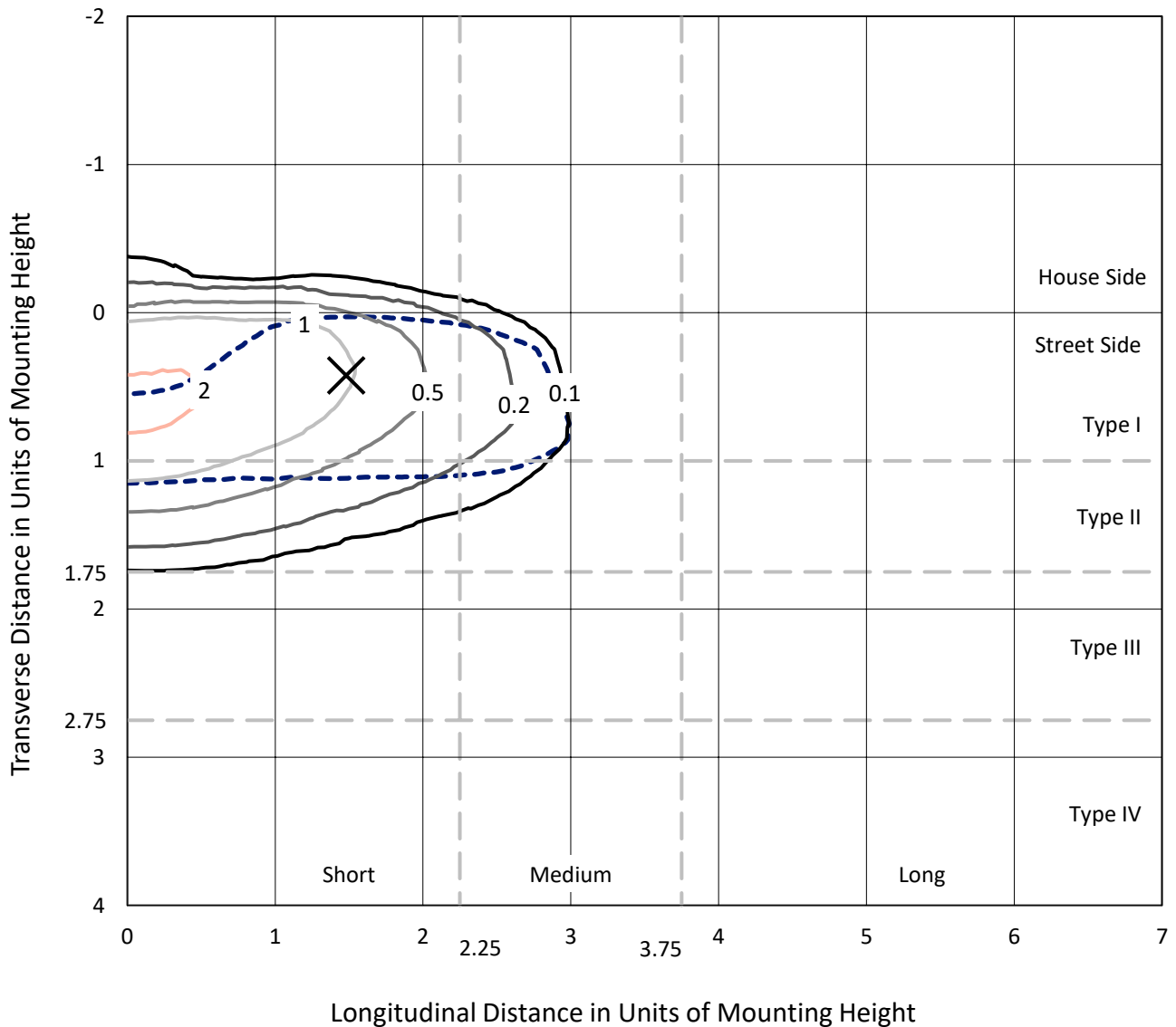
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450499  
 CATALOG NUMBER: GALN-SA1B-740-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

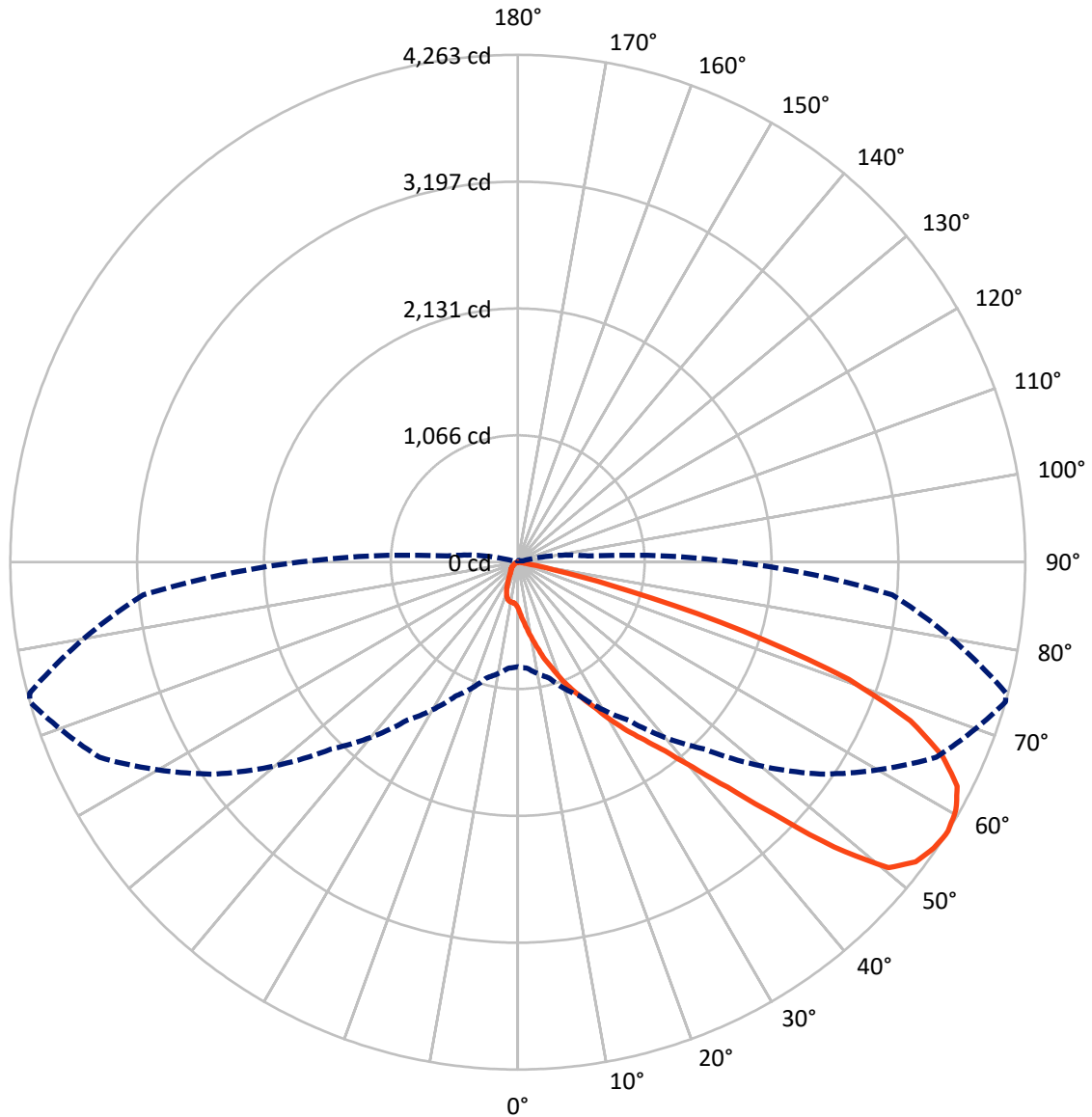
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P450499  
CATALOG NUMBER: GALN-SA1B-740-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P450499

CATALOG NUMBER: GALN-SA1B-740-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	265.9	0.0	265.9
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	4344.1	0.0	4344.1
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	4610.0	0.0	4610.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.6	1.0
10°-20°	183.7	4.0
20°-30°	393.0	8.5
30°-40°	722.4	15.7
40°-50°	1107.4	24.0
50°-60°	1171.5	25.4
60°-70°	765.0	16.6
70°-80°	209.0	4.5
80°-90°	11.3	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°	4610.0	100.0
0°-180°	4610.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450499

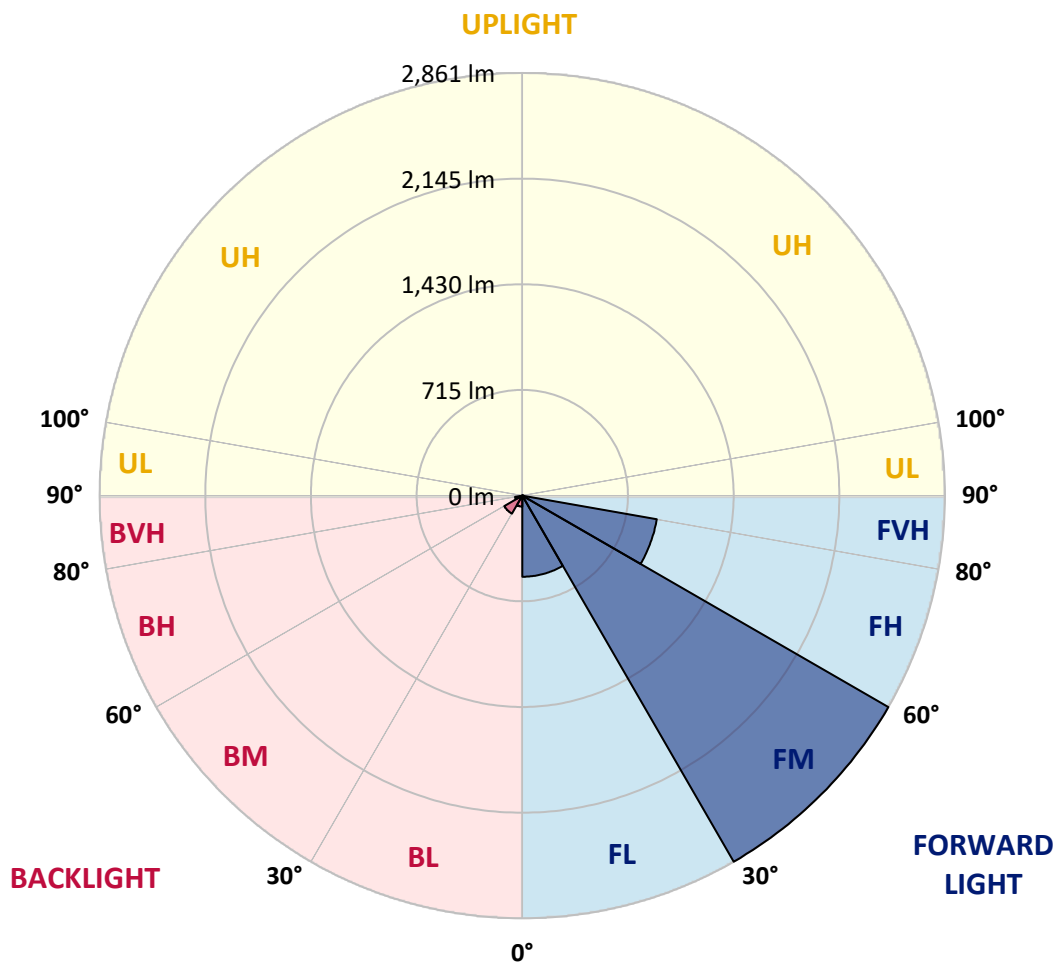
CATALOG NUMBER: GALN-SA1B-740-U-T2R-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.0	11.9			
FM	(30°-60°)	2860.6	62.1			
FH	(60°-80°)	924.2	20.0			G1/1800
FVH	(80°-90°)	10.3	0.2			G1/100
BL	(0°-30°)	74.3	1.6	B0/110		
BM	(30°-60°)	140.8	3.1	B0/220		
BH	(60°-80°)	49.9	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	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: P450499

CATALOG NUMBER: GALN-SA1B-740-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	565.0	559.9	549.7	546.2	531.2	508.0	487.6	460.2	438.6	436.4	410.3
5°	756.6	745.1	740.3	717.4	681.5	647.7	589.8	545.9	495.3	491.4	438.9
7.5°	941.2	925.3	920.5	898.8	856.8	803.7	728.6	648.7	568.5	561.1	477.4
10°	1074.9	1077.1	1068.5	1054.2	1020.1	966.0	873.4	764.2	649.9	640.7	520.7
12.5°	1170.7	1170.3	1171.9	1171.6	1153.5	1112.4	1015.0	889.3	739.7	721.6	570.4
15°	1233.0	1234.0	1238.8	1255.3	1257.2	1231.8	1150.6	1009.0	843.8	821.2	624.2
17.5°	1296.1	1302.7	1310.4	1326.0	1340.0	1329.8	1272.5	1133.7	938.0	921.1	681.8
20°	1400.1	1409.4	1404.9	1414.5	1421.8	1422.7	1378.5	1249.0	1052.3	1023.9	747.7
22.5°	1566.6	1566.3	1554.8	1537.6	1523.3	1522.7	1482.6	1367.4	1156.0	1128.6	813.9
25°	1777.0	1777.9	1755.7	1706.7	1671.0	1627.4	1581.2	1471.1	1267.1	1233.4	883.6
27.5°	2018.3	2012.2	1978.5	1911.0	1840.3	1765.9	1699.3	1591.8	1384.9	1356.9	963.5
30°	2235.0	2232.8	2193.3	2110.9	2017.9	1943.1	1846.7	1742.9	1537.3	1502.9	1052.9
32.5°	2436.8	2440.0	2385.2	2299.9	2210.2	2123.9	2022.1	1887.4	1686.9	1638.2	1150.3
35°	2594.4	2597.5	2540.9	2469.9	2377.6	2306.0	2208.9	2041.5	1834.6	1793.5	1262.3
37.5°	2678.4	2682.5	2649.7	2596.3	2538.7	2502.7	2412.3	2239.8	2014.1	1989.3	1394.7
40°	2694.3	2699.1	2684.7	2670.4	2667.2	2693.0	2666.6	2473.4	2263.0	2224.2	1592.1
42.5°	2646.6	2652.9	2659.3	2691.1	2756.0	2850.6	2942.6	2790.4	2583.5	2531.3	1833.3
45°	2521.1	2520.5	2545.7	2628.1	2773.5	2975.3	3230.9	3187.3	3020.2	2958.2	2174.2
47.5°	2306.6	2303.4	2357.9	2475.3	2701.9	2998.3	3466.1	3669.2	3577.5	3520.2	2540.6
50°	1979.7	1995.3	2081.0	2244.9	2524.0	2928.9	3538.7	3985.3	4034.9	3974.1	2836.6
52.5°	1596.8	1596.2	1730.5	1953.0	2260.5	2776.1	3488.1	4042.6	4183.6	4137.1	2982.3
55°	1181.8	1190.1	1329.8	1554.2	1918.3	2497.3	3322.9	3983.7	4240.2	4207.4	3078.5
57°	879.1	893.7	1005.8	1243.2	1620.4	2221.3	3103.0	3878.3	4262.5	4244.7	3158.4
57.5°	820.5	821.2	930.4	1146.1	1533.2	2115.3	3040.0	3834.4	4261.9	4252.0	3171.4
60°	505.1	521.0	596.5	774.7	1122.3	1651.0	2617.6	3582.0	4228.8	4243.1	3227.1
62.5°	302.4	309.1	358.1	466.9	723.5	1205.0	2142.1	3258.9	4142.5	4186.1	3223.3
65°	194.5	196.1	218.3	282.6	452.3	814.5	1650.6	2832.1	3919.4	3999.6	3097.2
67.5°	150.2	152.8	161.7	185.6	262.3	507.3	1167.5	2376.6	3558.4	3661.9	2791.7
70°	133.4	134.6	137.8	145.5	173.5	286.5	726.3	1856.6	2950.8	2980.1	2184.7
72.5°	108.9	112.4	122.2	124.8	137.5	178.9	404.2	1246.1	1982.6	1989.9	1222.2
75°	84.3	85.0	99.6	106.9	115.9	123.2	180.5	628.3	952.3	901.4	471.1
77.5°	63.0	65.9	72.6	81.8	94.5	88.2	80.8	236.8	295.7	290.3	136.9
80°	40.4	42.0	50.6	61.4	73.5	57.6	45.5	69.4	64.9	66.8	32.8
82.5°	20.4	20.7	32.5	50.0	46.8	29.0	28.6	28.3	24.2	23.9	15.3
85°	2.2	4.8	21.0	28.6	21.0	9.5	13.4	13.0	12.7	13.0	8.9
87.5°	0.3	0.3	3.5	4.1	2.9	3.2	3.8	4.1	5.1	4.8	3.8
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: P450499

CATALOG NUMBER: GALN-SA1B-740-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	397.5	384.8	361.3	338.7	321.8	311.0	297.0	291.9	284.5	283.6	280.1
5°	414.7	390.5	349.5	317.0	290.9	271.2	254.0	239.7	228.2	225.7	226.9
7.5°	439.2	403.3	346.0	301.7	265.5	231.7	204.3	187.5	175.4	170.9	171.6
10°	466.9	420.1	345.3	285.5	230.1	188.7	158.8	143.9	136.9	134.3	131.5
12.5°	499.7	439.6	343.7	260.4	191.3	150.5	129.2	120.3	113.6	111.7	111.7
15°	536.6	460.2	336.1	229.2	155.3	124.5	110.1	103.1	100.9	99.0	99.0
17.5°	575.1	480.6	320.2	190.7	128.9	106.6	97.7	93.6	90.4	88.2	88.2
20°	619.1	500.7	294.7	156.6	108.9	95.2	88.2	83.4	80.8	78.9	78.3
22.5°	660.8	516.9	262.3	128.6	94.8	85.6	79.3	74.2	71.6	70.7	70.7
25°	704.0	526.8	223.1	106.3	86.6	77.7	70.7	66.5	64.3	63.7	63.3
27.5°	746.1	532.5	188.7	92.9	78.9	70.3	63.7	60.5	58.2	57.6	57.9
30°	797.0	533.4	155.3	83.4	72.3	63.3	57.3	54.4	53.2	52.5	52.2
32.5°	848.6	532.2	130.5	77.7	65.9	57.3	52.2	50.0	49.0	48.1	48.1
35°	906.5	525.5	111.1	71.9	59.8	52.2	47.7	45.8	44.6	43.6	43.3
37.5°	978.4	522.0	99.9	65.6	54.4	47.4	43.3	41.4	40.4	39.1	38.8
40°	1091.7	537.6	96.4	59.8	49.0	43.0	39.1	36.9	35.6	34.4	34.1
42.5°	1233.0	565.0	90.7	54.1	44.2	38.8	35.0	32.5	30.2	28.6	28.0
45°	1416.1	600.9	81.8	48.1	40.1	34.4	30.9	27.7	24.8	23.6	23.2
47.5°	1608.0	635.6	73.8	43.3	35.6	30.6	26.7	23.2	20.7	19.7	19.4
50°	1725.7	642.6	68.7	37.9	31.2	26.4	22.6	19.4	17.8	16.9	16.9
52.5°	1779.5	631.5	61.7	33.1	27.1	23.2	19.4	16.9	15.9	15.3	15.0
55°	1817.1	614.3	52.5	28.6	23.2	19.7	17.2	15.3	14.0	13.4	13.0
57°	1839.1	591.1	45.5	25.1	20.1	17.2	15.3	13.7	12.4	11.1	11.1
57.5°	1840.0	582.1	43.6	24.8	19.1	16.6	15.0	13.4	11.8	10.5	10.2
60°	1811.7	521.0	35.0	21.0	15.3	14.0	12.4	10.5	8.3	7.0	6.7
62.5°	1720.7	443.4	29.0	17.8	12.4	10.8	8.9	8.0	5.7	4.1	4.1
65°	1582.8	359.7	24.8	14.3	10.2	8.0	6.0	5.7	3.5	1.9	1.6
67.5°	1383.6	280.1	21.0	11.8	8.6	5.7	4.1	3.8	1.9	0.6	0.0
70°	1054.2	191.0	17.5	9.5	6.4	4.1	2.9	2.2	1.3	0.3	0.0
72.5°	607.6	105.0	14.6	7.3	4.8	3.2	2.2	1.3	1.3	0.0	0.0
75°	217.1	45.2	11.1	5.4	3.8	2.5	1.6	0.6	1.0	0.3	0.0
77.5°	69.1	24.2	7.3	4.1	3.2	1.9	1.3	0.6	0.6	0.3	0.0
80°	20.4	12.7	4.5	3.5	2.2	1.6	1.0	0.3	0.6	0.3	0.0
82.5°	11.1	6.4	3.5	2.5	2.2	1.3	1.0	0.3	0.3	0.3	0.0
85°	5.7	3.8	2.9	2.5	2.2	1.3	1.0	0.3	0.0	0.3	0.3
87.5°	3.2	2.9	2.9	2.5	2.2	1.6	1.0	0.3	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)