

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: P450961

Luminaire Tested: **GALN-SA1D-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5852 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G2

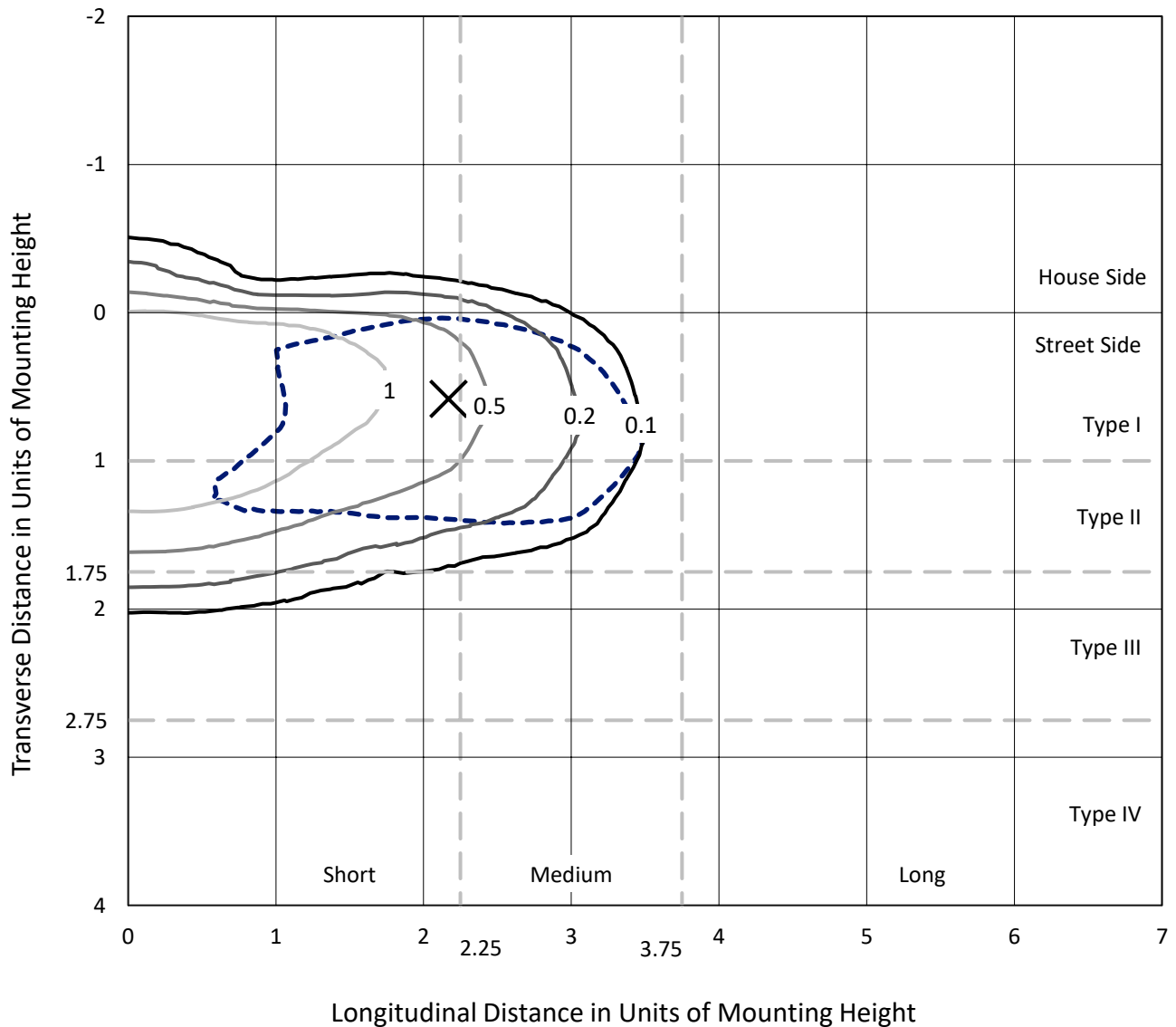
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

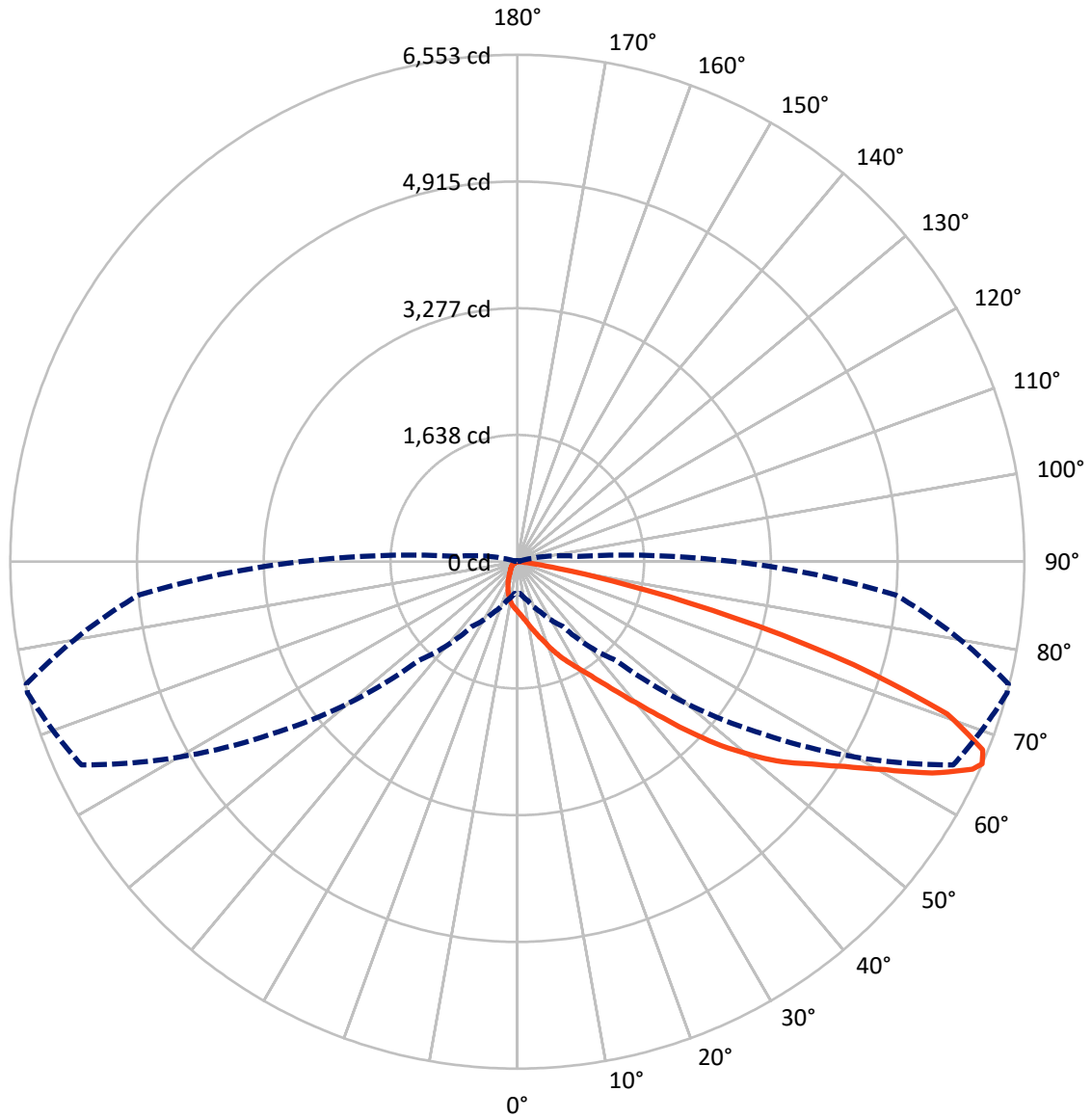
× Max cd  
 - - - 1/2 Max cd



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 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	361.3	0.0	361.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5490.7	0.0	5490.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5852.0	0.0	5852.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	1.1
10°-20°	181.7	3.1
20°-30°	313.7	5.4
30°-40°	565.8	9.7
40°-50°	1022.2	17.5
50°-60°	1593.6	27.2
60°-70°	1513.9	25.9
70°-80°	567.4	9.7
80°-90°	32.0	0.5
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°	5852.0	100.0
0°-180°	5852.0	100.0

**Coefficient of Utilization**



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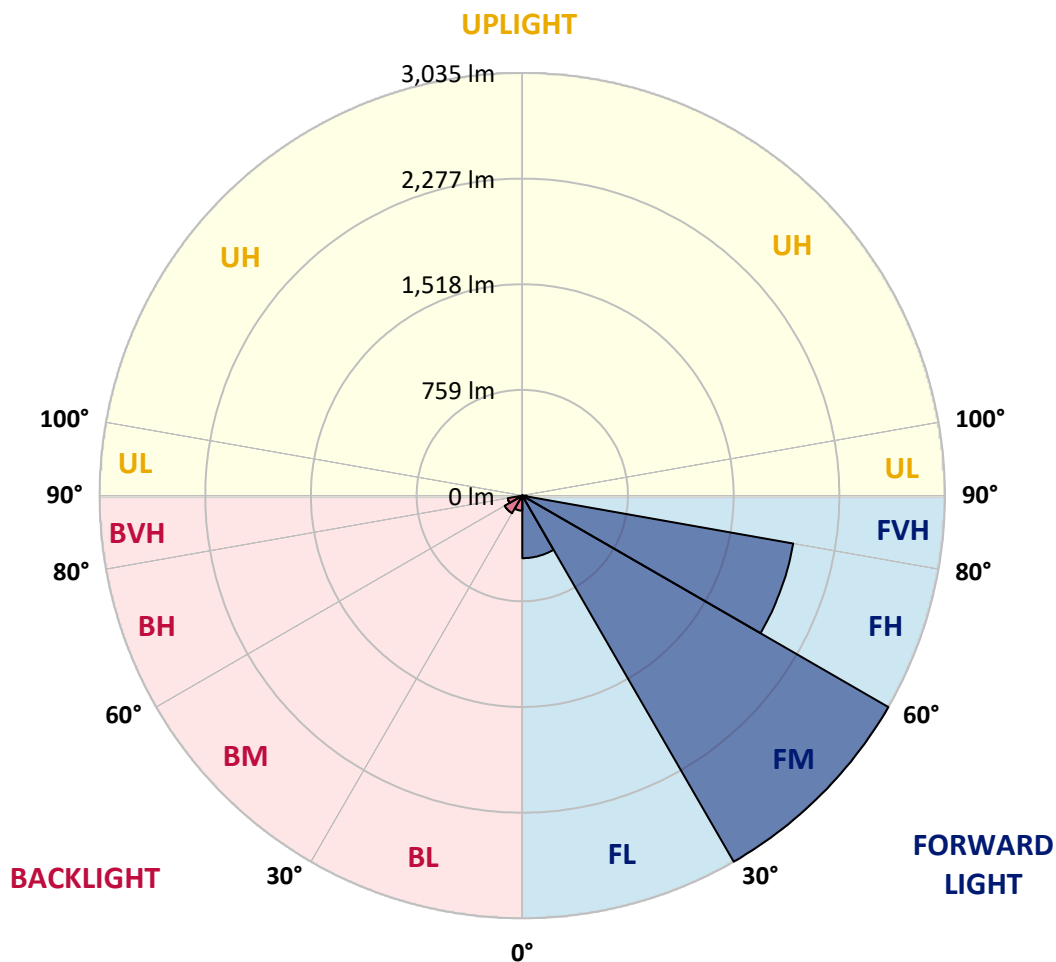
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.2	7.7			
FM (30°-60°)	3035.4	51.9			
FH (60°-80°)	1975.7	33.8			G2/5000
FVH (80°-90°)	30.4	0.5			G1/100
BL (0°-30°)	107.9	1.8	B0/110		
BM (30°-60°)	146.2	2.5	B0/220		
BH (60°-80°)	105.5	1.8	B0/110		G0/110
BVH (80°-90°)	1.7	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
2.5°	764.6	755.1	758.1	753.8	743.8	729.1	716.1	697.5	678.9	675.9	655.1
5°	865.4	862.8	859.4	846.8	839.9	817.4	790.6	758.5	720.0	713.1	675.5
7.5°	934.2	932.9	934.6	928.2	922.1	901.8	873.2	829.5	769.8	765.9	703.1
10°	956.7	960.2	966.7	977.1	986.6	980.1	958.4	903.9	834.3	823.0	734.7
12.5°	943.7	947.6	963.2	990.9	1021.6	1039.4	1030.7	990.9	902.6	893.5	770.2
15°	910.4	915.2	937.2	980.1	1035.0	1085.2	1106.9	1078.3	982.2	967.5	813.1
17.5°	861.1	868.0	899.6	956.3	1031.6	1118.1	1179.1	1169.6	1067.1	1053.2	859.8
20°	823.9	829.1	855.9	920.8	1016.9	1136.3	1247.9	1274.8	1171.8	1148.0	914.7
22.5°	848.5	850.3	859.4	898.3	990.5	1141.0	1308.5	1384.2	1283.0	1261.8	971.9
25°	969.3	952.0	942.9	934.2	984.8	1136.7	1363.5	1498.5	1393.8	1371.2	1028.5
27.5°	1159.7	1151.9	1106.0	1044.6	1032.9	1142.3	1399.8	1606.6	1498.0	1473.8	1083.9
30°	1366.9	1353.5	1325.4	1235.4	1144.9	1182.2	1426.2	1711.8	1621.4	1589.3	1134.6
32.5°	1557.3	1566.0	1524.0	1431.4	1326.7	1267.0	1460.4	1826.5	1762.8	1723.0	1193.4
35°	1779.3	1796.6	1732.1	1643.4	1521.0	1420.1	1527.0	1955.8	1942.4	1892.2	1284.3
37.5°	2004.7	2015.1	1975.7	1851.1	1740.8	1614.9	1652.5	2115.5	2163.5	2120.7	1392.9
40°	2194.3	2208.5	2179.5	2068.8	1951.1	1840.3	1834.7	2289.5	2426.6	2382.5	1554.7
42.5°	2339.2	2350.0	2350.9	2272.6	2166.6	2116.4	2067.0	2511.4	2756.3	2705.3	1742.5
45°	2522.3	2537.8	2528.7	2475.5	2396.3	2387.2	2361.7	2779.7	3151.0	3086.5	1986.1
47.5°	2805.2	2815.6	2793.1	2730.4	2649.9	2664.2	2649.0	3080.4	3553.4	3498.0	2238.4
50°	3001.7	3019.0	3051.0	3076.1	3017.7	2964.9	2919.9	3361.3	3935.5	3885.7	2496.3
52.5°	2999.5	3028.1	3129.3	3255.7	3383.3	3367.3	3237.9	3671.5	4300.2	4238.8	2738.6
55°	2797.5	2852.8	3001.7	3225.8	3579.4	3755.5	3696.6	4030.7	4615.3	4573.7	3019.4
57.5°	2380.3	2414.1	2620.9	2934.2	3469.9	3938.1	4228.0	4517.5	4993.0	4973.5	3455.6
60°	1601.0	1616.2	1882.3	2269.5	2954.1	3755.9	4617.4	5106.4	5458.2	5448.6	3964.9
62.5°	917.3	923.8	1116.8	1443.5	2102.1	3183.0	4650.3	5832.9	6015.9	6021.1	4554.2
65°	493.7	497.2	653.0	847.2	1279.1	2268.7	4181.7	6231.0	6466.8	6476.8	4919.4
66°	426.2	409.8	519.7	722.2	1017.7	1805.7	3885.3	6216.7	6553.4	6542.5	4906.5
67.5°	324.1	338.8	415.0	555.2	754.2	1283.8	3207.7	5940.2	6487.6	6453.8	4707.0
70°	231.9	238.0	295.5	395.9	513.6	704.4	2049.7	4933.7	5896.5	5851.1	4100.8
72.5°	149.7	156.2	209.4	286.5	371.3	384.7	1147.5	3564.6	4546.0	4539.5	3088.2
75°	106.9	112.9	138.5	205.1	279.1	238.0	552.6	2402.4	2890.1	2870.6	1910.4
77.5°	77.5	80.5	92.6	134.1	199.5	170.5	256.2	1283.0	1438.8	1506.7	844.2
80°	44.6	47.2	64.5	81.8	135.0	116.4	122.5	514.9	530.9	505.4	264.0
82.5°	22.1	25.1	38.5	55.8	84.4	78.3	56.3	154.9	163.6	159.2	66.6
85°	5.2	6.5	21.6	36.8	41.1	35.0	27.3	45.4	56.3	55.0	25.5
87.5°	0.4	0.9	7.8	6.5	6.9	11.7	9.5	11.7	18.2	16.9	9.1
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°	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
2.5°	645.6	637.4	613.6	590.2	570.7	550.4	531.8	521.0	516.7	511.9	514.1
5°	654.7	634.8	586.8	545.2	504.5	469.9	442.2	424.5	415.8	414.5	412.4
7.5°	666.8	632.6	558.2	493.3	440.1	401.6	370.0	344.4	336.6	329.7	324.1
10°	681.5	628.7	522.7	438.8	382.1	333.6	292.1	261.8	246.2	241.9	244.9
12.5°	697.1	621.4	485.5	388.6	323.2	261.4	222.8	207.7	203.4	201.6	202.1
15°	712.7	612.3	446.6	340.1	257.5	208.6	190.8	186.9	185.2	184.3	183.5
17.5°	726.9	597.6	402.9	292.9	208.6	178.3	171.8	168.3	164.9	163.6	161.4
20°	743.8	580.7	363.5	240.2	176.5	161.4	153.6	147.1	141.9	138.5	138.0
22.5°	759.8	559.1	322.4	199.0	161.0	145.0	132.4	125.5	119.4	115.1	116.4
25°	768.5	532.7	285.6	173.5	146.7	128.5	114.7	106.0	99.5	97.4	96.9
27.5°	768.5	500.2	249.7	158.8	133.7	113.8	99.5	91.3	87.0	83.9	84.4
30°	762.4	464.3	216.4	147.6	122.5	100.8	87.4	80.1	76.6	74.4	74.0
32.5°	757.7	430.1	187.8	136.7	110.8	89.6	77.9	72.3	68.8	66.6	66.6
35°	765.0	400.7	165.7	125.9	100.0	80.9	70.5	65.3	61.9	60.1	59.7
37.5°	784.5	373.9	148.9	114.2	90.0	73.6	65.3	59.3	55.8	53.7	52.8
40°	832.5	358.7	136.3	103.4	80.5	67.5	59.3	53.7	49.3	47.2	46.7
42.5°	909.6	359.1	124.2	93.5	73.1	62.3	54.1	47.6	42.8	40.7	40.2
45°	1025.5	375.6	114.7	83.9	66.6	56.7	48.5	41.5	37.2	35.0	35.0
47.5°	1164.4	407.6	106.4	75.7	60.6	51.5	42.8	35.9	31.6	29.9	29.9
50°	1315.0	449.2	98.2	67.1	55.4	45.9	36.8	31.2	27.7	26.4	26.4
52.5°	1468.6	499.3	90.0	60.1	49.8	39.8	31.6	27.7	24.7	23.8	23.4
55°	1670.3	563.4	81.3	52.8	43.7	34.2	28.1	24.2	20.8	19.5	19.0
57.5°	1980.5	659.9	71.8	46.3	35.9	28.6	24.2	20.3	16.4	14.3	13.8
60°	2354.8	777.6	61.9	40.7	29.0	23.4	19.5	15.6	12.1	9.5	9.1
62.5°	2705.3	852.4	52.4	34.2	22.9	17.7	13.8	11.7	8.7	6.1	5.6
65°	2860.2	827.3	43.3	27.7	18.2	12.5	9.1	8.2	5.2	2.6	2.2
66°	2808.7	790.1	39.8	25.1	16.4	10.8	7.8	6.9	3.9	1.3	1.3
67.5°	2656.8	702.3	34.6	21.6	14.3	8.7	6.1	5.2	2.2	0.4	0.0
70°	2276.5	568.1	27.3	16.0	10.4	6.1	3.5	2.6	1.3	0.0	0.0
72.5°	1748.6	423.2	21.6	12.1	7.4	3.5	1.7	0.9	1.3	0.0	0.0
75°	1071.4	241.9	16.9	9.1	4.8	2.2	1.3	0.0	1.3	0.4	0.0
77.5°	475.5	108.6	11.3	6.1	3.5	1.7	0.9	0.0	0.9	0.4	0.0
80°	120.3	35.5	6.5	4.3	2.6	1.3	0.4	0.0	0.9	0.9	0.4
82.5°	32.9	13.0	4.8	3.5	2.2	1.3	0.4	0.0	0.9	0.9	0.9
85°	13.0	6.1	4.3	3.5	2.6	1.3	0.4	0.0	0.9	0.9	0.9
87.5°	6.1	4.3	4.3	3.9	3.0	1.3	0.4	0.0	0.9	0.4	0.9
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)