

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: P522638

Luminaire Tested: **GALN-SA1C-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5233 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

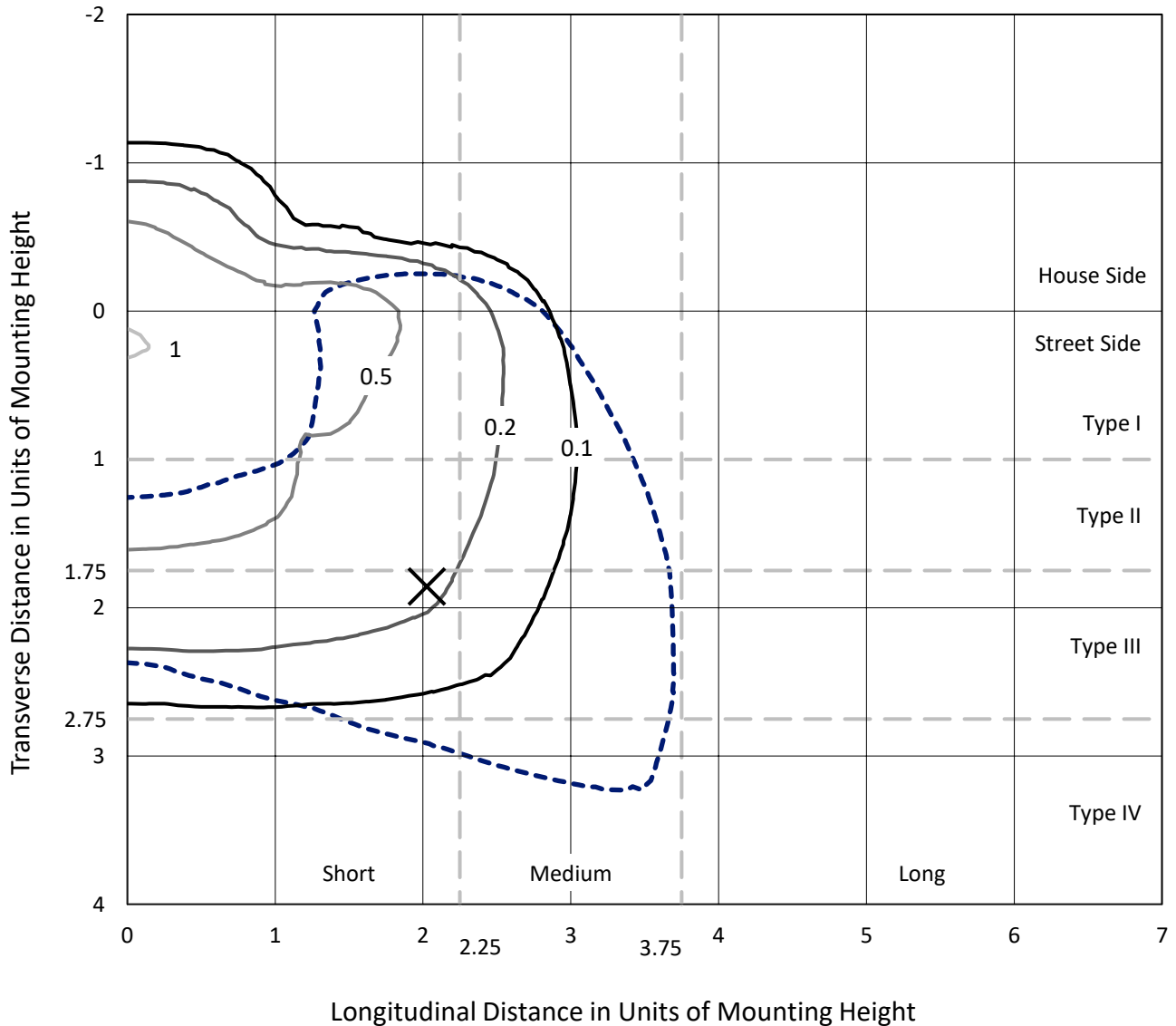
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

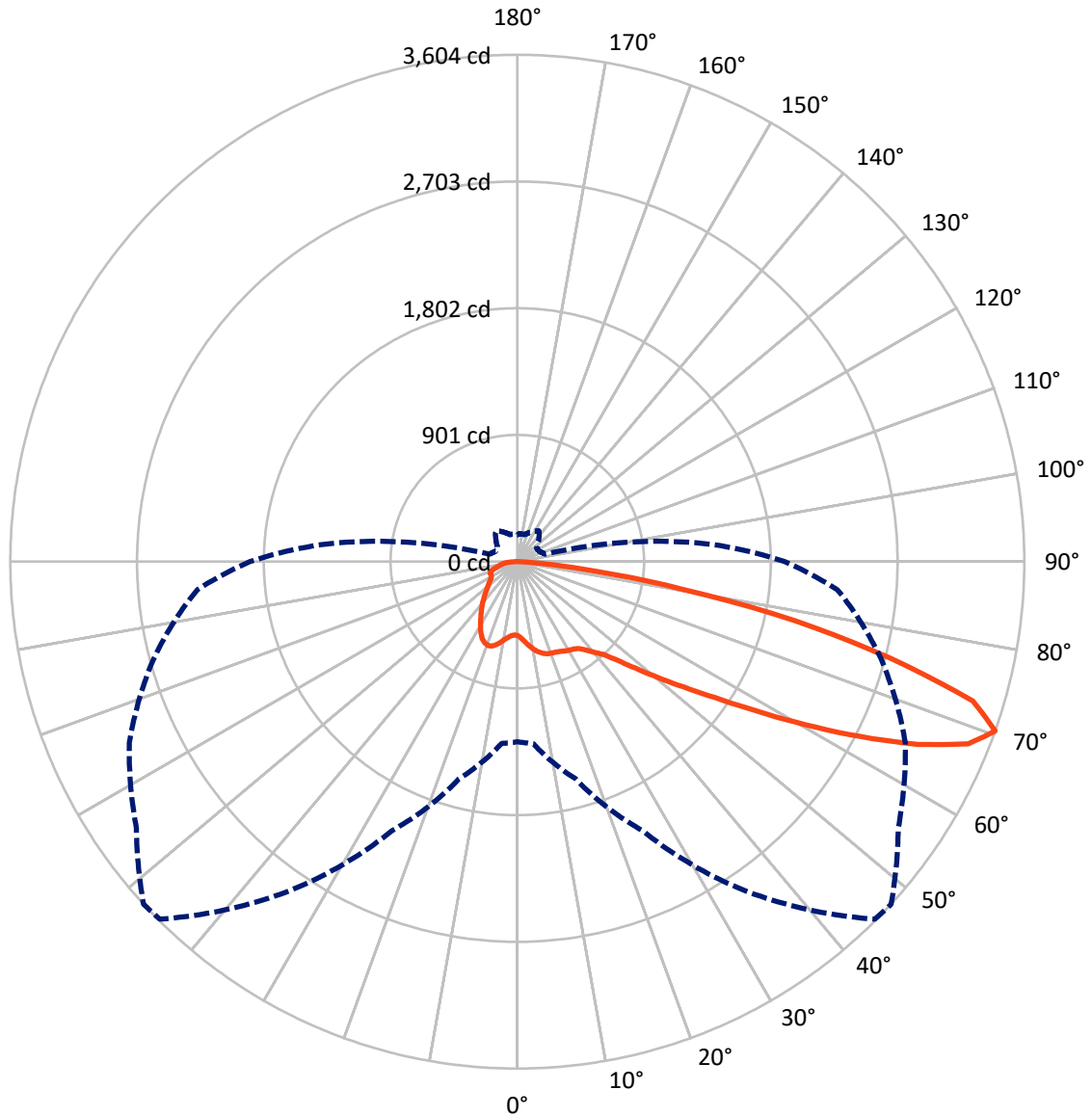
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1184.9	0.0	1184.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4048.1	0.0	4048.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	5233.0	0.0	5233.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.2	1.0
10°-20°	181.0	3.5
20°-30°	301.0	5.8
30°-40°	426.7	8.2
40°-50°	629.9	12.0
50°-60°	1091.0	20.8
60°-70°	1541.1	29.4
70°-80°	885.9	16.9
80°-90°	122.2	2.3
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°	5233.0	100.0
0°-180°	5233.0	100.0

**Coefficient of Utilization**



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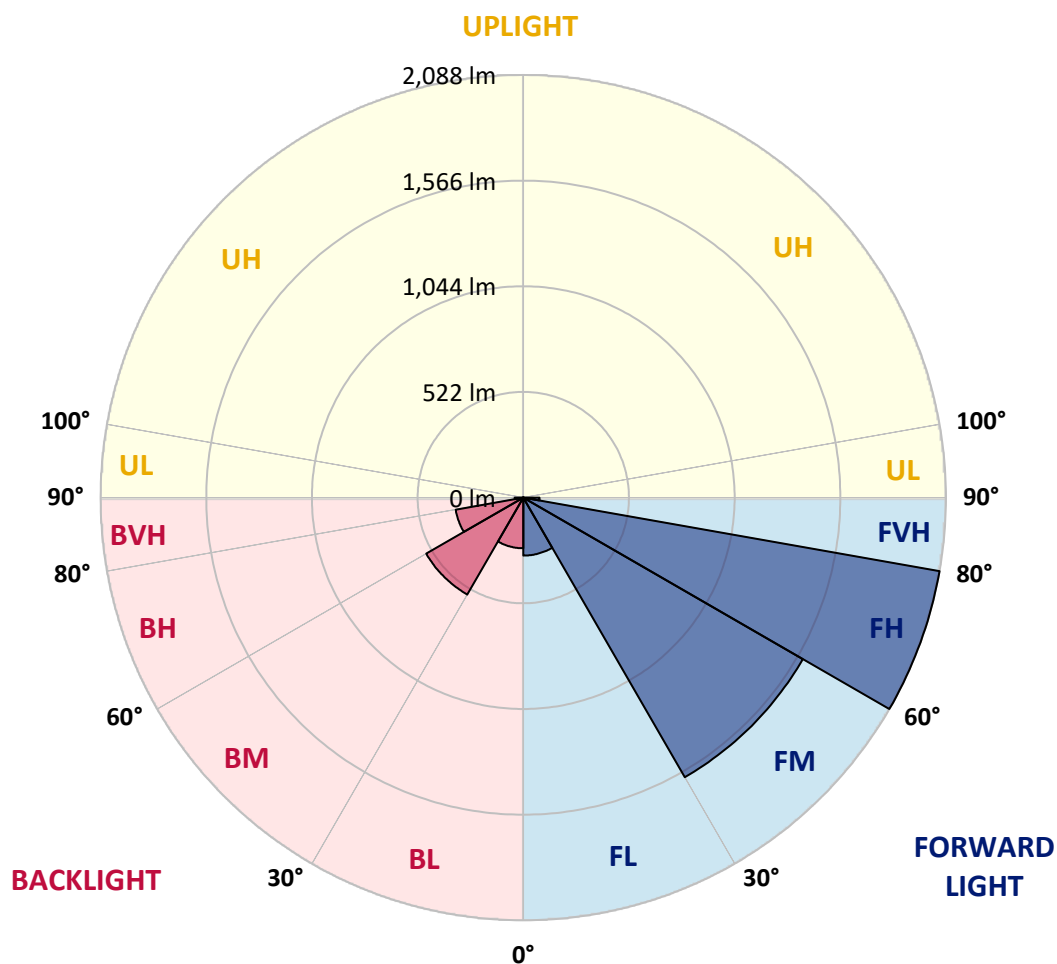
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.2	5.5			
FM (30°-60°)	1594.4	30.5			
FH (60°-80°)	2087.7	39.9			G2/5000
FVH (80°-90°)	79.8	1.5			G1/100
BL (0°-30°)	250.1	4.8	B1/500		
BM (30°-60°)	553.2	10.6	B1/1000		
BH (60°-80°)	339.2	6.5	B1/500		G1/500
BVH (80°-90°)	42.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	559.2	557.3	557.0	552.8	550.5	546.3	544.7	540.7	536.0	531.2	526.7
5°	603.2	603.2	601.2	595.3	586.1	576.6	572.4	564.8	551.4	540.5	531.2
7.5°	648.3	648.8	644.9	636.2	623.1	607.7	603.7	592.5	573.5	557.5	543.8
10°	687.2	687.2	681.9	670.1	653.6	636.8	632.9	620.3	599.0	579.1	561.2
12.5°	716.9	716.9	709.9	694.5	676.5	661.4	656.9	644.9	625.0	602.9	580.2
15°	736.2	734.8	726.9	709.6	692.2	679.1	676.0	665.9	647.7	625.3	599.8
17.5°	737.0	736.5	728.9	714.3	699.2	690.3	688.3	681.6	667.3	646.0	619.1
20°	720.8	721.9	716.9	706.5	699.2	695.3	694.5	692.2	682.1	662.3	635.4
22.5°	703.4	705.4	700.6	695.0	694.5	698.4	698.9	699.5	693.1	673.7	649.1
25°	699.2	700.6	695.9	690.8	693.9	704.3	706.5	708.7	703.7	687.5	665.3
27.5°	720.5	719.4	710.1	699.2	701.2	715.2	718.3	720.8	718.3	704.3	685.5
30°	780.7	777.1	758.6	726.7	716.6	726.4	729.5	736.5	736.5	726.1	707.3
32.5°	881.5	874.5	840.6	777.9	742.9	737.0	740.1	751.6	757.5	749.4	728.9
35°	1003.9	996.6	948.2	863.9	791.1	758.3	757.5	770.4	786.0	767.8	741.2
37.5°	1126.8	1119.3	1061.0	966.4	861.4	803.1	798.1	802.6	809.3	776.0	758.3
40°	1249.8	1240.8	1189.8	1080.9	947.3	862.5	849.3	829.2	826.4	802.6	791.4
42.5°	1371.6	1363.5	1337.7	1209.4	1050.4	920.4	900.3	865.6	876.2	861.9	852.1
45°	1494.5	1495.1	1467.6	1353.6	1174.7	1027.4	1000.3	945.9	971.1	965.8	971.4
47.5°	1603.4	1602.0	1592.2	1493.7	1329.0	1165.2	1130.2	1067.2	1110.3	1129.9	1172.8
50°	1709.0	1708.2	1708.7	1652.4	1508.2	1329.0	1290.4	1224.3	1321.4	1389.5	1466.2
52.5°	1860.2	1865.0	1831.1	1816.3	1726.1	1522.5	1479.9	1411.6	1571.0	1678.2	1828.0
55°	2012.0	2008.1	1981.5	1996.9	1954.0	1751.6	1707.0	1652.7	1848.7	1966.1	2191.2
57.5°	2101.3	2102.7	2129.9	2205.2	2235.5	2037.2	1996.9	1954.9	2161.0	2244.1	2514.4
60°	2181.7	2188.1	2266.3	2408.5	2490.6	2388.1	2352.2	2311.3	2447.4	2480.5	2794.9
62.5°	2206.9	2226.8	2363.1	2576.0	2739.2	2784.0	2739.5	2649.3	2720.2	2707.3	2985.1
65°	2081.2	2108.3	2352.8	2638.7	2961.3	3159.8	3131.5	2964.1	2952.6	2875.0	3016.2
67.5°	1750.2	1777.3	2091.2	2507.1	3053.1	3485.2	3456.9	3193.7	3093.7	2890.7	2780.9
70°	1280.6	1297.6	1597.8	2110.8	2868.6	3594.4	3604.2	3305.7	3043.3	2677.6	2283.3
72.5°	737.9	775.7	986.0	1485.0	2343.5	3318.3	3386.4	3072.7	2724.7	2233.8	1596.4
75°	317.3	318.1	455.9	819.1	1587.2	2667.3	2733.1	2547.1	2139.7	1544.6	852.4
77.5°	150.9	153.7	200.5	365.7	873.7	1842.9	2020.4	1799.5	1368.5	742.1	322.0
80°	98.0	100.0	122.7	181.5	428.4	1068.6	1192.4	1038.1	603.7	265.2	138.9
82.5°	59.4	59.9	82.0	110.9	235.8	483.9	570.4	450.6	257.6	158.8	81.8
85°	36.1	36.4	49.8	68.6	143.1	167.2	171.7	170.3	151.2	103.9	43.7
87.5°	17.4	17.9	25.8	32.5	56.3	51.8	49.0	56.8	71.4	56.0	18.8
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°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	524.8	523.9	522.0	521.1	520.6	520.8	520.6	520.6	520.8	520.8	520.8
5°	527.3	525.9	522.8	522.8	524.5	528.4	532.1	534.9	537.9	537.7	537.7
7.5°	538.2	535.7	532.1	533.2	537.4	543.5	550.0	556.1	562.3	562.9	562.6
10°	554.2	551.7	547.7	549.1	555.9	565.1	573.2	582.2	588.9	590.9	590.3
12.5°	572.4	567.3	564.0	567.9	578.5	590.9	598.7	605.4	610.2	613.0	611.9
15°	590.9	586.1	582.2	590.3	603.2	614.7	618.6	619.7	620.5	623.3	622.8
17.5°	608.8	602.3	600.9	611.6	623.9	628.9	626.7	621.9	618.3	620.5	620.3
20°	624.7	619.7	619.1	629.8	634.5	629.8	620.3	611.9	605.4	606.0	605.7
22.5°	639.9	635.9	636.5	641.0	633.4	617.2	601.5	590.0	583.0	584.4	585.3
25°	656.7	652.7	654.1	646.9	621.9	593.7	571.0	561.2	558.4	561.2	563.1
27.5°	678.5	676.0	675.1	647.1	601.5	558.9	533.2	529.5	532.1	538.2	541.3
30°	702.0	702.0	697.5	642.4	573.5	517.2	494.8	495.4	504.0	512.7	515.8
32.5°	724.7	729.5	715.5	629.5	537.4	476.6	459.5	460.1	467.6	478.3	481.1
35°	743.5	757.2	730.9	606.0	494.8	442.4	429.6	422.0	422.3	430.4	432.6
37.5°	769.2	794.7	739.8	571.0	449.4	413.3	398.8	385.6	376.9	373.6	373.6
40°	814.0	851.6	742.1	519.2	406.6	385.6	364.9	349.2	332.4	317.3	314.5
42.5°	889.9	937.2	737.6	459.5	368.0	355.1	334.9	315.6	292.3	271.1	269.4
45°	1024.3	1048.7	725.5	397.6	333.5	325.7	306.1	285.1	260.4	241.4	240.0
47.5°	1239.7	1205.2	709.6	342.8	302.1	299.9	284.8	260.4	235.8	222.6	221.2
50°	1554.1	1451.7	707.3	303.0	276.9	278.1	265.7	243.3	221.8	210.9	209.2
52.5°	1932.7	1749.3	722.2	275.0	254.8	259.0	252.9	232.1	213.1	203.9	202.2
55°	2300.1	2017.0	731.1	253.1	234.1	241.9	242.8	225.4	208.1	198.8	197.7
57.5°	2598.4	2218.7	691.4	233.3	216.2	228.2	234.4	221.5	205.5	198.5	197.4
60°	2805.9	2313.9	578.3	215.6	203.0	217.3	231.3	221.8	211.7	212.5	213.1
62.5°	2872.0	2271.6	433.8	202.5	194.1	213.7	236.3	233.3	222.9	229.3	230.5
65°	2762.5	2096.8	314.5	192.1	186.2	216.2	251.5	241.7	219.0	223.7	223.7
67.5°	2395.9	1806.5	244.7	182.6	177.3	220.9	266.6	240.8	209.7	215.3	210.3
70°	1900.5	1397.3	203.9	171.9	167.7	213.9	268.0	232.1	198.8	199.9	190.4
72.5°	1261.2	918.8	175.3	161.9	153.2	192.4	256.5	220.9	188.2	181.7	172.2
75°	618.0	458.1	152.9	149.3	134.1	167.5	240.8	210.3	176.7	166.6	161.3
77.5°	239.4	194.9	130.5	133.3	116.8	147.6	220.1	195.2	161.6	147.9	143.7
80°	116.2	110.6	107.0	111.2	96.0	125.7	201.1	182.0	147.6	132.5	126.3
82.5°	72.2	68.3	82.0	86.5	73.9	114.8	190.7	170.8	129.9	109.8	104.7
85°	36.7	39.2	54.9	59.1	52.9	91.3	157.1	128.3	93.8	77.8	78.4
87.5°	14.0	18.8	28.8	31.1	28.3	48.2	86.5	74.8	60.2	40.9	37.8
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)