

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: P451284

Luminaire Tested: **GALN-SA2A-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4963 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): 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

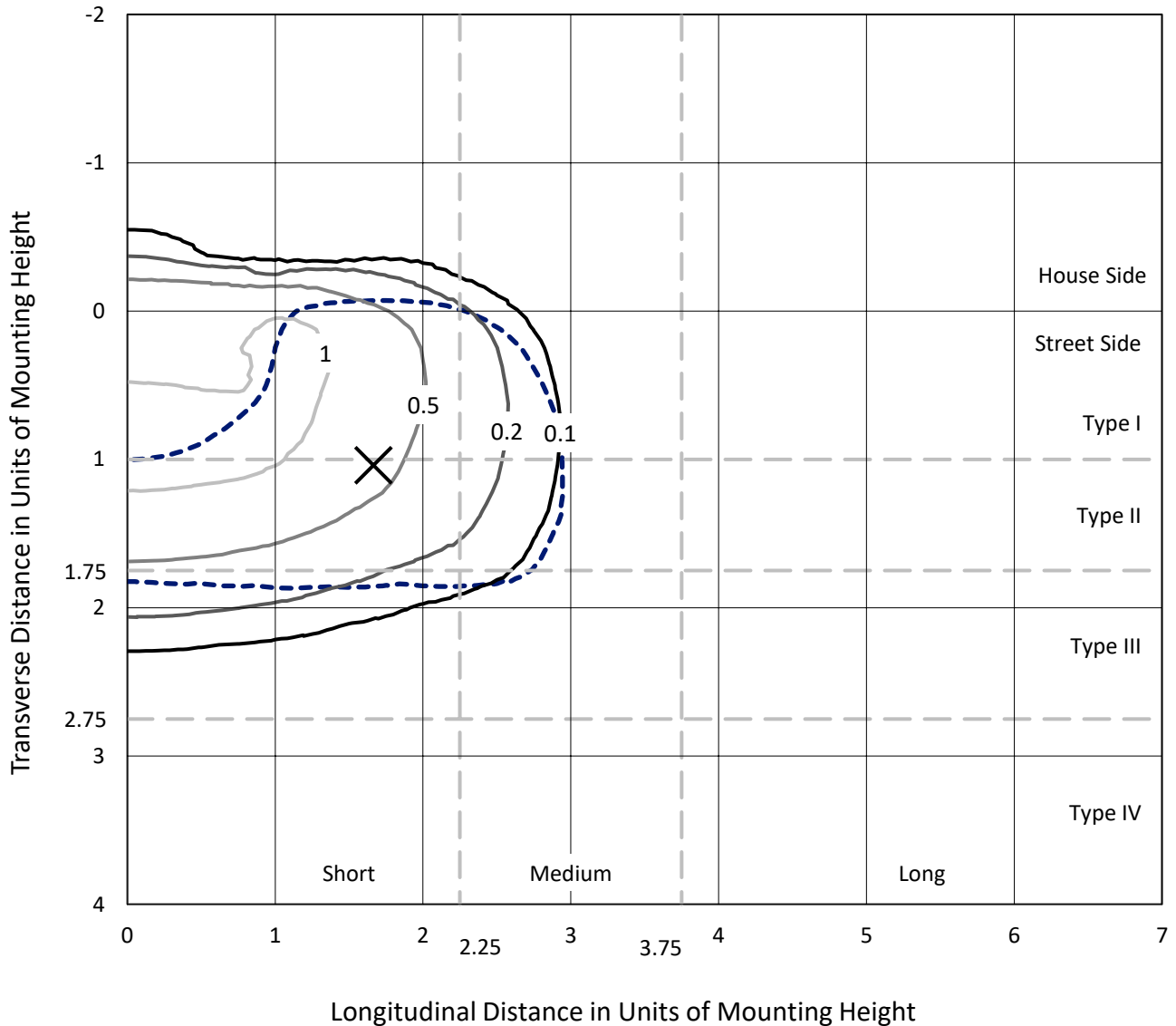




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Iso-Footcandle Lines of Horizontal Illumination

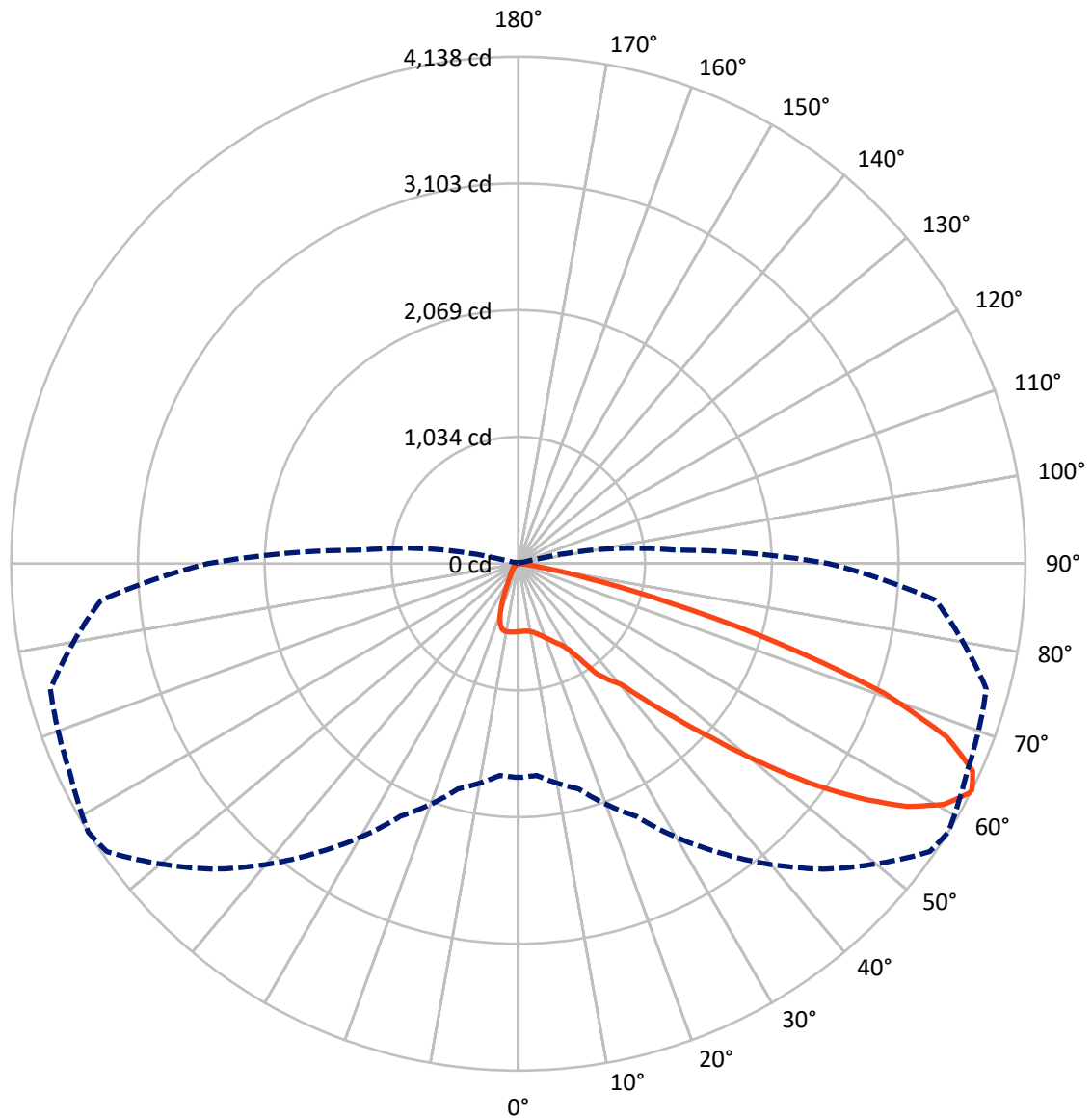
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.9	0.0	513.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4449.1	0.0	4449.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	4963.0	0.0	4963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.0
10°-20°	141.7	2.9
20°-30°	245.9	5.0
30°-40°	451.8	9.1
40°-50°	850.5	17.1
50°-60°	1454.8	29.3
60°-70°	1392.9	28.1
70°-80°	355.2	7.2
80°-90°	18.2	0.4
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°	4963.0	100.0
0°-180°	4963.0	100.0

Coefficient of Utilization



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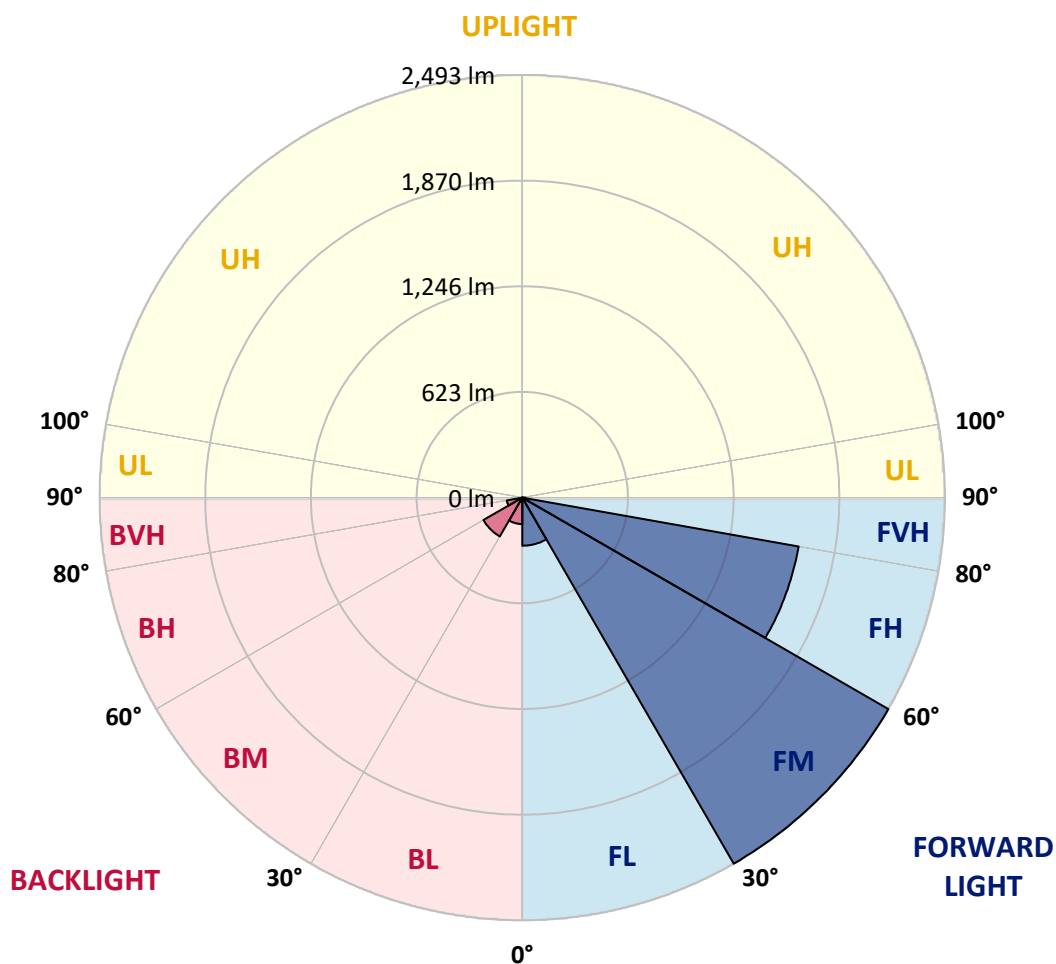
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.7	5.7			
FM (30°-60°)	2492.8	50.2			
FH (60°-80°)	1655.1	33.3			G1/1800
FVH (80°-90°)	17.5	0.4			G1/100
BL (0°-30°)	155.8	3.1	B1/500		
BM (30°-60°)	264.3	5.3	B1/1000		
BH (60°-80°)	93.0	1.9	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: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	555.6	555.6	555.6	555.6	555.6	555.6	555.6	555.6	555.6	555.6	555.6
2.5°	541.8	543.7	545.5	546.3	548.9	551.5	553.4	553.0	556.0	557.5	557.5
5°	520.1	520.1	525.0	529.5	536.9	544.4	551.5	553.0	558.6	563.8	565.7
7.5°	501.8	502.9	506.7	514.9	525.0	538.1	552.3	555.6	565.3	576.9	581.8
10°	493.2	494.0	498.8	507.4	520.1	538.1	557.9	564.2	579.2	597.5	604.2
12.5°	491.4	492.5	497.3	507.1	521.6	543.3	570.2	576.9	598.6	622.1	632.2
15°	494.7	495.5	500.3	510.8	526.9	552.6	586.6	596.0	621.8	649.0	662.1
17.5°	506.7	505.9	509.3	517.9	535.8	564.2	606.4	617.7	647.9	685.3	693.9
20°	557.5	552.6	549.6	542.2	549.3	580.7	630.4	646.8	684.2	722.3	728.3
22.5°	667.0	656.1	634.8	605.7	583.3	603.1	659.1	678.2	726.4	763.8	763.8
25°	806.4	792.5	771.2	707.7	652.8	640.1	691.6	715.6	772.3	810.1	797.8
27.5°	980.8	970.0	928.5	854.6	770.5	704.7	729.4	751.4	813.1	858.7	832.9
30°	1122.8	1117.6	1083.6	1017.5	924.8	828.8	799.6	814.2	867.3	919.9	893.4
32.5°	1242.8	1242.8	1208.0	1146.4	1059.7	974.5	918.8	929.3	980.1	1041.0	991.7
35°	1374.7	1370.2	1342.2	1283.5	1186.4	1111.3	1088.5	1102.7	1148.6	1193.8	1072.4
37.5°	1513.3	1511.8	1482.7	1425.9	1346.7	1252.1	1198.7	1202.4	1226.0	1253.6	1166.9
40°	1663.9	1666.1	1628.0	1592.9	1518.2	1421.4	1319.0	1295.5	1317.5	1395.6	1341.4
42.5°	1841.8	1836.5	1820.1	1772.3	1712.1	1654.2	1531.2	1522.6	1542.1	1625.8	1567.1
45°	2048.4	2055.9	2027.5	2000.9	1960.6	1912.4	1809.6	1794.7	1816.0	1946.0	1862.7
47.5°	2255.4	2248.3	2266.6	2261.7	2283.4	2247.5	2156.7	2126.1	2177.3	2300.6	2178.0
50°	2413.1	2420.9	2459.0	2514.7	2607.7	2627.9	2540.9	2530.4	2553.2	2632.4	2460.2
52.5°	2515.5	2541.6	2601.4	2744.5	2912.3	3042.7	2976.5	2970.9	2961.6	2982.9	2729.9
55°	2582.3	2608.9	2687.0	2897.7	3186.5	3398.4	3401.8	3377.9	3316.2	3300.9	2982.2
57.5°	2541.2	2546.5	2657.8	2939.6	3338.6	3652.1	3762.0	3738.1	3624.1	3566.2	3204.9
60°	2284.2	2295.0	2450.1	2781.1	3272.5	3735.1	4000.7	3989.9	3865.1	3799.7	3378.2
62.5°	1828.7	1860.1	2019.6	2388.8	2965.0	3595.3	4097.5	4128.2	4031.0	3941.0	3432.8
63°	1745.0	1734.9	1903.4	2274.4	2883.5	3526.2	4099.0	4137.9	4038.5	3954.4	3417.8
65°	1291.7	1322.0	1431.5	1793.6	2399.6	3204.5	4006.7	4075.5	4010.8	3895.0	3252.3
67.5°	725.3	723.8	844.8	1173.7	1679.6	2513.6	3623.0	3768.3	3754.9	3495.2	2695.9
70°	355.0	360.6	410.3	608.3	974.1	1734.1	3010.5	3167.5	3172.3	2745.3	1864.2
72.5°	160.7	163.3	198.8	296.3	500.7	923.3	2074.5	2224.4	2196.7	1749.5	1029.4
75°	84.8	90.4	109.5	149.1	241.4	380.8	1128.4	1273.4	1215.5	799.3	378.9
77.5°	62.8	64.6	74.4	94.9	129.3	148.3	486.9	579.2	542.5	289.2	125.5
80°	46.0	47.5	55.3	67.3	81.5	75.5	183.5	210.4	188.7	98.3	38.5
82.5°	28.0	28.4	40.4	50.1	51.2	42.2	60.5	65.0	68.0	55.3	20.9
85°	10.1	12.7	27.3	36.2	30.3	21.3	25.4	28.0	30.6	35.1	12.3
87.5°	1.1	1.5	13.1	17.6	8.6	7.8	9.3	10.5	11.2	13.1	6.0
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°	555.6	555.6	555.6	555.6	555.6	555.6	555.6	555.6	555.6	555.6	555.6
2.5°	559.0	560.5	559.4	557.5	557.1	556.0	553.8	553.8	553.8	554.5	553.8
5°	567.2	568.3	565.7	562.0	557.9	552.6	547.0	543.7	543.3	542.5	540.7
7.5°	582.9	584.4	578.4	569.5	558.2	545.5	533.6	522.4	517.1	513.0	513.0
10°	605.7	607.2	595.2	579.2	556.7	531.0	502.6	476.8	456.6	447.3	445.0
12.5°	633.0	633.7	613.9	585.9	548.9	499.2	438.7	382.3	343.0	325.1	323.2
15°	662.9	657.6	631.5	588.5	526.5	433.8	329.2	260.1	219.3	207.4	211.9
17.5°	693.1	683.4	644.9	584.4	476.0	329.2	221.2	177.5	164.8	161.4	161.4
20°	721.5	708.1	654.6	566.5	388.6	226.8	164.0	153.6	151.3	149.1	149.5
22.5°	749.9	729.4	663.2	526.5	289.6	162.2	146.8	143.5	140.5	137.5	137.1
25°	777.6	749.2	666.6	452.5	197.3	139.4	134.1	129.7	123.7	120.3	119.6
27.5°	806.4	773.1	664.4	359.1	143.9	124.8	119.6	113.2	106.1	100.1	100.1
30°	861.7	818.7	656.5	258.2	121.1	109.9	103.1	93.0	85.2	79.2	78.8
32.5°	937.1	878.1	629.6	181.6	107.6	96.8	86.7	75.5	67.3	62.8	62.8
35°	1004.4	937.9	579.2	133.8	96.8	84.1	71.7	60.9	54.6	51.6	50.4
37.5°	1106.8	1025.3	509.7	108.7	86.3	72.9	60.2	50.1	44.8	42.6	42.6
40°	1260.3	1132.2	424.5	95.3	76.2	62.0	50.1	42.2	38.1	35.5	35.5
42.5°	1450.9	1263.0	338.2	85.6	66.9	53.4	41.8	35.9	32.1	30.3	29.9
45°	1690.8	1400.8	260.4	76.6	59.4	45.6	35.5	30.3	26.5	25.4	25.8
47.5°	1941.1	1522.3	201.8	68.8	51.6	38.5	30.3	26.2	23.5	22.0	22.0
50°	2154.9	1606.0	153.2	59.8	45.6	32.5	26.5	23.5	21.3	20.6	20.2
52.5°	2333.5	1630.3	117.3	51.9	40.0	28.0	23.5	21.3	19.4	18.3	18.3
55°	2485.6	1609.0	91.9	43.7	33.6	24.3	20.9	19.1	16.8	15.7	15.3
57.5°	2574.5	1540.6	70.2	36.2	27.3	20.2	18.3	16.1	13.5	11.6	11.6
60°	2619.3	1441.2	53.8	29.9	20.9	16.1	14.9	12.0	9.3	7.8	7.5
62.5°	2565.5	1309.3	40.7	23.5	15.7	12.0	10.1	8.6	6.0	4.5	4.5
63°	2532.3	1271.2	39.2	22.4	14.6	11.2	9.3	7.8	5.2	4.1	3.7
65°	2308.4	1104.9	32.1	17.9	11.6	7.8	6.4	5.6	3.7	1.9	1.5
67.5°	1833.2	845.2	25.4	13.5	8.2	5.6	3.7	3.4	1.1	0.0	0.0
70°	1239.4	545.9	19.8	9.7	5.6	3.4	1.9	1.5	0.4	0.0	0.0
72.5°	646.4	279.9	15.3	7.1	3.4	2.2	1.1	0.4	0.0	0.0	0.0
75°	228.7	95.3	11.2	4.5	2.2	1.1	0.4	0.0	0.0	0.0	0.0
77.5°	69.1	35.5	7.1	3.4	1.5	0.7	0.0	0.0	0.0	0.0	0.0
80°	24.3	13.1	4.1	2.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.0	6.4	2.6	1.9	1.1	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.7	4.1	2.2	1.9	1.1	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	3.0	2.2	1.9	1.5	0.7	0.4	0.0	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)