

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: P451203

Luminaire Tested: **GALN-SA2A-740-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6653 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

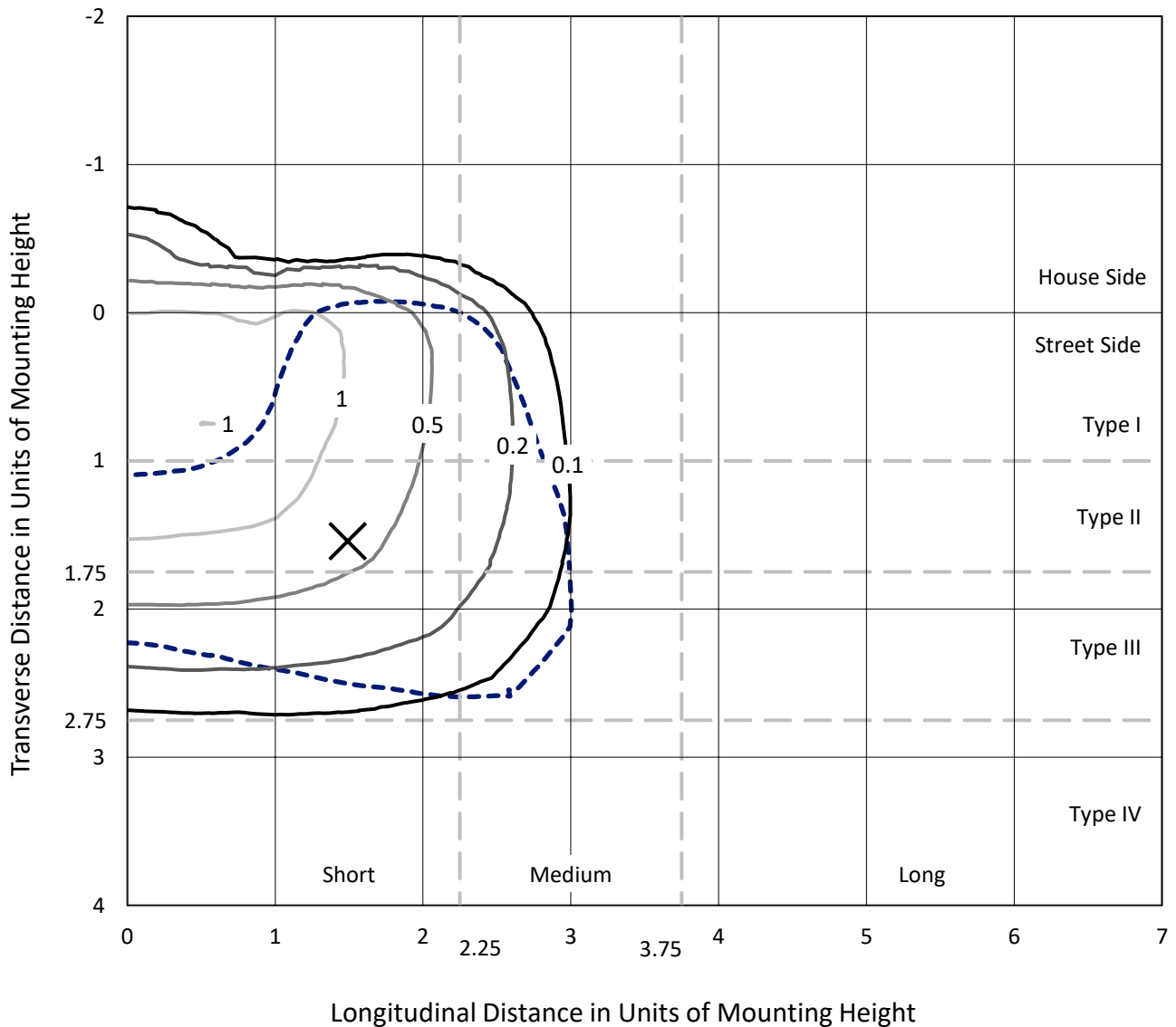
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

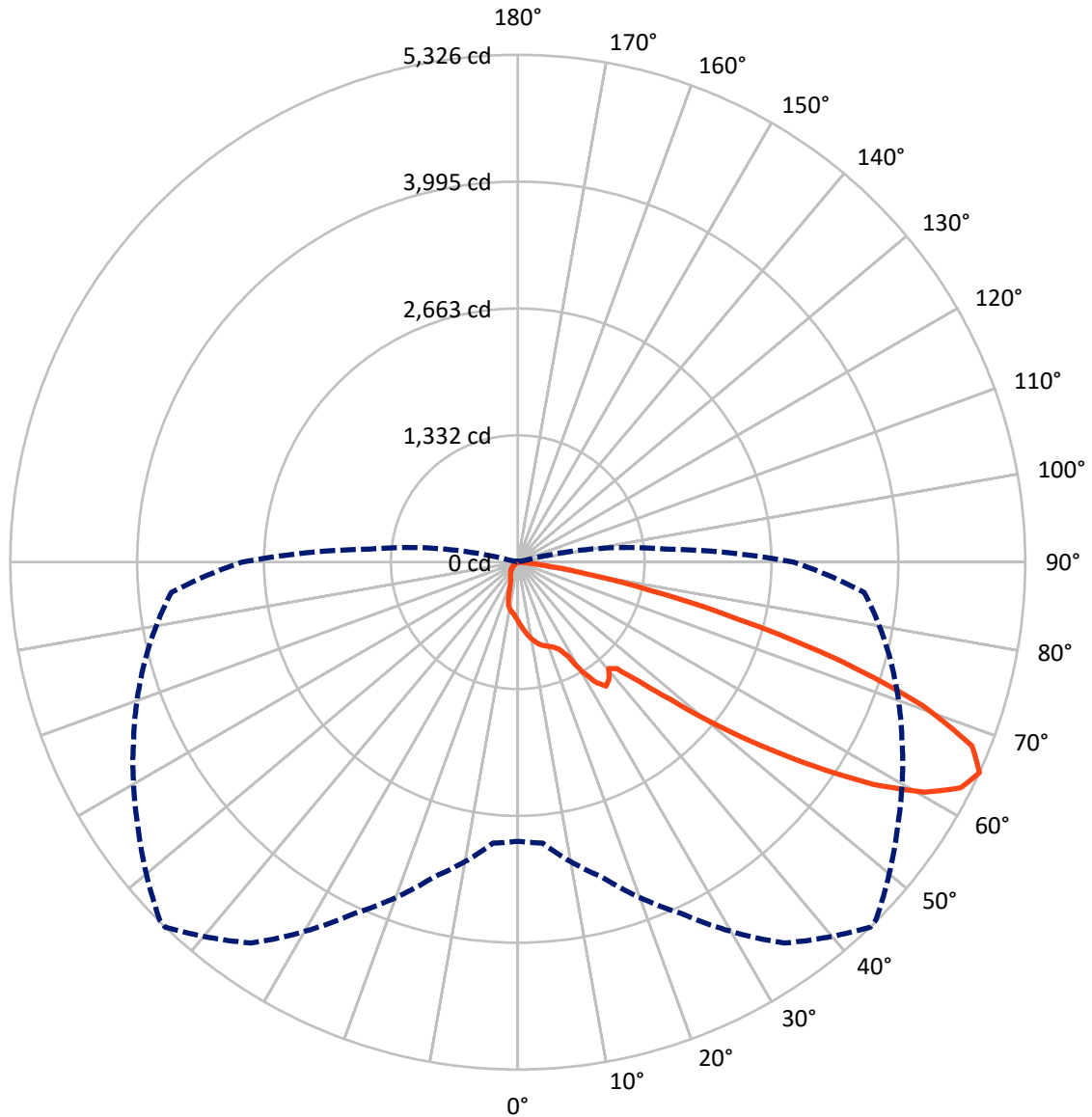
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	613.0	0.0	613.0
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	6040.0	0.0	6040.0
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	6653.0	0.0	6653.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.6	0.9
10°-20°	185.4	2.8
20°-30°	314.3	4.7
30°-40°	522.6	7.9
40°-50°	912.4	13.7
50°-60°	1782.5	26.8
60°-70°	2068.1	31.1
70°-80°	753.1	11.3
80°-90°	53.1	0.8
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°	6653.0	100.0
0°-180°	6653.0	100.0

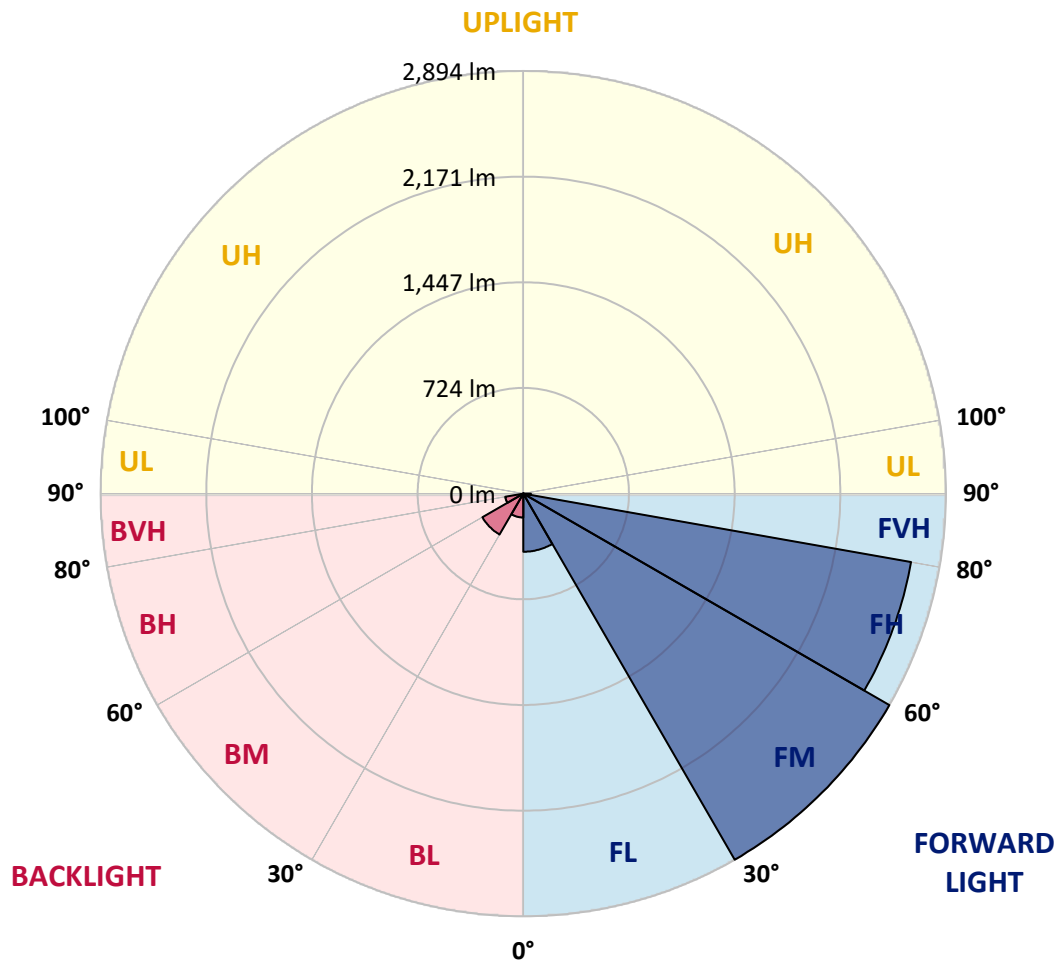


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.9	6.0			
FM	(30°-60°)	2894.1	43.5			
FH	(60°-80°)	2695.7	40.5			G2/5000
FVH	(80°-90°)	52.3	0.8			G1/100
BL	(0°-30°)	163.3	2.5	B1/500		
BM	(30°-60°)	323.4	4.9	B1/1000		
BH	(60°-80°)	125.5	1.9	B1/500		G1/500
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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2
2.5°	697.0	693.9	692.4	684.3	678.2	670.5	670.5	660.9	649.7	637.5	626.3
5°	774.8	769.7	763.1	755.9	741.7	721.4	721.4	701.0	677.7	656.8	633.9
7.5°	849.5	844.9	833.7	820.0	796.6	775.3	773.7	744.3	716.3	684.8	652.2
10°	915.1	911.5	901.9	875.4	851.0	823.1	822.5	789.5	757.0	718.3	678.2
12.5°	960.8	961.3	948.6	923.2	891.7	865.2	863.2	830.7	796.6	754.9	705.6
15°	993.4	993.4	980.1	951.7	923.2	899.8	897.8	869.3	834.2	789.0	735.6
17.5°	1002.5	1005.6	991.3	965.9	943.0	922.7	922.2	898.3	870.3	826.6	766.1
20°	998.9	1002.0	990.8	971.0	955.2	943.5	942.0	932.4	906.4	865.2	798.7
22.5°	991.3	994.4	986.2	974.5	966.9	970.5	967.9	976.1	962.3	912.5	837.3
25°	992.8	995.9	989.8	983.2	989.8	1011.7	1018.3	1053.3	1041.1	972.5	879.0
27.5°	1040.6	1046.7	1038.1	1041.1	1064.5	1115.4	1128.1	1188.6	1134.7	1048.8	944.0
30°	1146.9	1142.8	1126.6	1141.3	1222.6	1330.4	1326.8	1317.2	1232.8	1136.7	1021.3
32.5°	1243.5	1239.9	1238.9	1302.4	1449.9	1502.2	1499.7	1406.2	1320.7	1237.4	1097.6
35°	1282.6	1268.9	1265.8	1419.9	1666.4	1597.3	1581.5	1442.8	1427.5	1347.2	1175.4
37.5°	1400.6	1390.9	1343.6	1439.2	1580.0	1557.1	1544.9	1505.8	1541.4	1444.3	1263.3
40°	1643.6	1616.6	1573.9	1480.4	1457.5	1467.2	1479.4	1586.6	1676.1	1577.0	1380.7
42.5°	1945.5	1939.4	1860.1	1685.8	1514.4	1527.7	1543.4	1755.4	1869.8	1776.8	1572.4
45°	2308.0	2316.6	2202.3	1996.4	1771.7	1782.9	1805.7	2004.5	2132.1	2087.4	1873.9
47.5°	2637.4	2630.8	2592.2	2378.2	2170.7	2145.8	2182.9	2324.3	2495.1	2502.2	2248.0
50°	2968.9	3004.0	2946.5	2862.6	2708.6	2656.2	2642.5	2711.7	2971.9	2937.9	2697.4
52.5°	3445.2	3463.5	3355.8	3334.4	3369.5	3199.7	3186.0	3202.7	3435.6	3318.6	3034.0
55°	3744.7	3734.0	3693.8	3860.6	3999.4	3787.4	3770.1	3702.5	3820.4	3587.6	3357.8
57.5°	3839.2	3854.5	3948.0	4249.5	4577.9	4397.9	4366.4	4174.2	4098.0	3838.2	3655.7
60°	3797.0	3825.0	4026.8	4475.2	4930.7	4903.7	4876.8	4554.0	4297.3	4047.6	3864.6
62.5°	3496.6	3535.7	3858.5	4435.0	5050.2	5218.4	5184.9	4790.9	4429.9	4149.3	3901.2
65°	2930.3	2959.2	3422.9	4070.5	4880.4	5326.2	5314.0	4865.1	4450.8	4056.3	3650.6
67.5°	2088.9	2187.5	2617.1	3430.5	4378.1	5142.2	5163.0	4776.1	4255.1	3654.2	3023.3
70°	1313.1	1380.2	1688.3	2455.9	3509.8	4511.3	4579.9	4368.9	3692.8	2848.4	2023.8
72.5°	626.3	676.1	895.7	1554.6	2477.3	3549.4	3603.8	3586.6	2855.5	1794.5	1044.2
75°	279.1	297.9	427.5	793.6	1599.3	2385.8	2526.6	2550.0	1784.4	878.0	406.2
77.5°	142.3	142.9	200.3	384.3	798.7	1423.4	1451.4	1533.2	967.4	386.9	141.3
80°	75.7	80.8	106.2	181.5	414.3	701.0	697.5	766.6	429.1	189.6	47.3
82.5°	34.1	37.6	60.0	95.1	202.3	265.9	286.7	313.7	184.0	121.0	20.8
85°	10.2	12.2	29.5	47.8	73.2	76.8	85.9	110.8	104.2	85.9	10.7
87.5°	1.5	1.5	12.2	13.2	10.7	13.7	14.2	15.8	33.6	31.5	5.6
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°	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2	619.2
2.5°	620.2	616.7	603.9	593.3	584.1	578.5	571.9	567.9	565.8	564.3	564.8
5°	622.8	614.1	592.3	575.0	561.7	547.5	537.9	532.3	529.7	525.7	525.7
7.5°	637.0	623.3	592.8	566.3	543.4	524.1	505.8	499.2	494.6	493.6	492.6
10°	657.3	640.0	598.4	561.7	529.2	502.8	476.9	454.0	436.2	425.5	424.0
12.5°	682.7	657.8	607.0	558.7	517.0	470.2	401.6	355.4	324.3	314.7	316.2
15°	706.1	679.2	615.6	556.2	494.6	389.9	312.1	259.3	243.5	242.0	242.5
17.5°	734.1	702.1	625.8	552.6	433.1	297.9	231.8	217.6	220.6	225.7	225.2
20°	763.1	726.5	638.0	531.2	345.7	224.2	204.9	206.4	211.0	215.5	216.6
22.5°	794.1	754.4	652.2	479.9	263.8	195.2	194.2	196.2	200.8	205.9	206.9
25°	836.8	789.5	662.9	412.8	199.8	180.5	182.5	186.1	190.1	195.7	196.7
27.5°	891.7	836.8	668.5	325.4	172.8	167.3	167.8	172.8	177.9	183.0	183.0
30°	962.9	893.2	657.3	246.1	159.6	154.5	152.5	155.6	162.2	167.3	167.8
32.5°	1026.4	946.6	627.8	188.1	150.0	142.9	137.8	138.3	140.8	143.9	144.4
35°	1089.9	998.4	577.5	158.1	139.8	131.7	124.0	120.0	117.9	116.4	117.9
37.5°	1171.3	1063.0	510.4	143.9	131.2	121.0	110.3	101.7	94.6	90.0	91.0
40°	1276.0	1152.5	431.1	134.7	123.0	110.8	96.6	85.4	73.2	69.1	67.1
42.5°	1448.9	1288.2	347.7	127.1	114.9	100.1	82.4	67.1	55.9	51.9	52.9
45°	1721.9	1459.5	267.9	119.0	106.8	88.5	69.1	52.9	43.7	41.7	42.7
47.5°	2083.8	1681.2	206.4	109.8	96.6	75.7	54.4	41.7	36.1	35.6	35.1
50°	2424.4	1887.6	172.3	99.6	84.4	63.0	44.7	35.1	31.5	31.0	31.0
52.5°	2732.5	2035.5	140.3	87.9	71.2	51.9	37.6	31.0	28.0	26.4	26.4
55°	3006.5	2132.1	113.9	73.7	55.9	41.2	32.5	28.0	24.4	22.4	21.9
57.5°	3213.4	2143.8	85.4	59.0	41.7	32.0	28.0	24.4	20.3	17.8	16.8
60°	3301.9	2042.6	63.0	44.7	31.0	25.4	22.4	19.8	15.3	12.7	12.2
62.5°	3212.9	1845.9	46.8	34.1	23.9	18.8	15.8	14.7	10.7	7.6	7.1
65°	2894.2	1561.7	37.1	25.9	17.8	13.7	10.2	9.7	6.6	3.6	3.1
67.5°	2318.7	1223.1	29.5	19.3	12.7	9.2	6.6	6.1	3.6	1.0	1.0
70°	1507.8	781.9	23.9	14.2	8.1	6.1	4.1	3.1	2.0	0.5	0.0
72.5°	745.8	365.5	19.3	11.2	5.6	3.1	1.5	1.0	1.5	0.0	0.0
75°	289.3	130.1	14.2	7.6	3.1	1.5	1.0	0.0	0.5	0.0	0.0
77.5°	96.1	43.2	8.6	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	35.6	16.8	4.6	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	14.2	6.6	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	4.1	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	3.1	2.0	1.5	1.0	0.5	0.0	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)