

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: P450470

Luminaire Tested: **GALN-SA1B-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450470
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-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 4198 lumens
Efficiency: N/A
Efficacy: 95.4 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

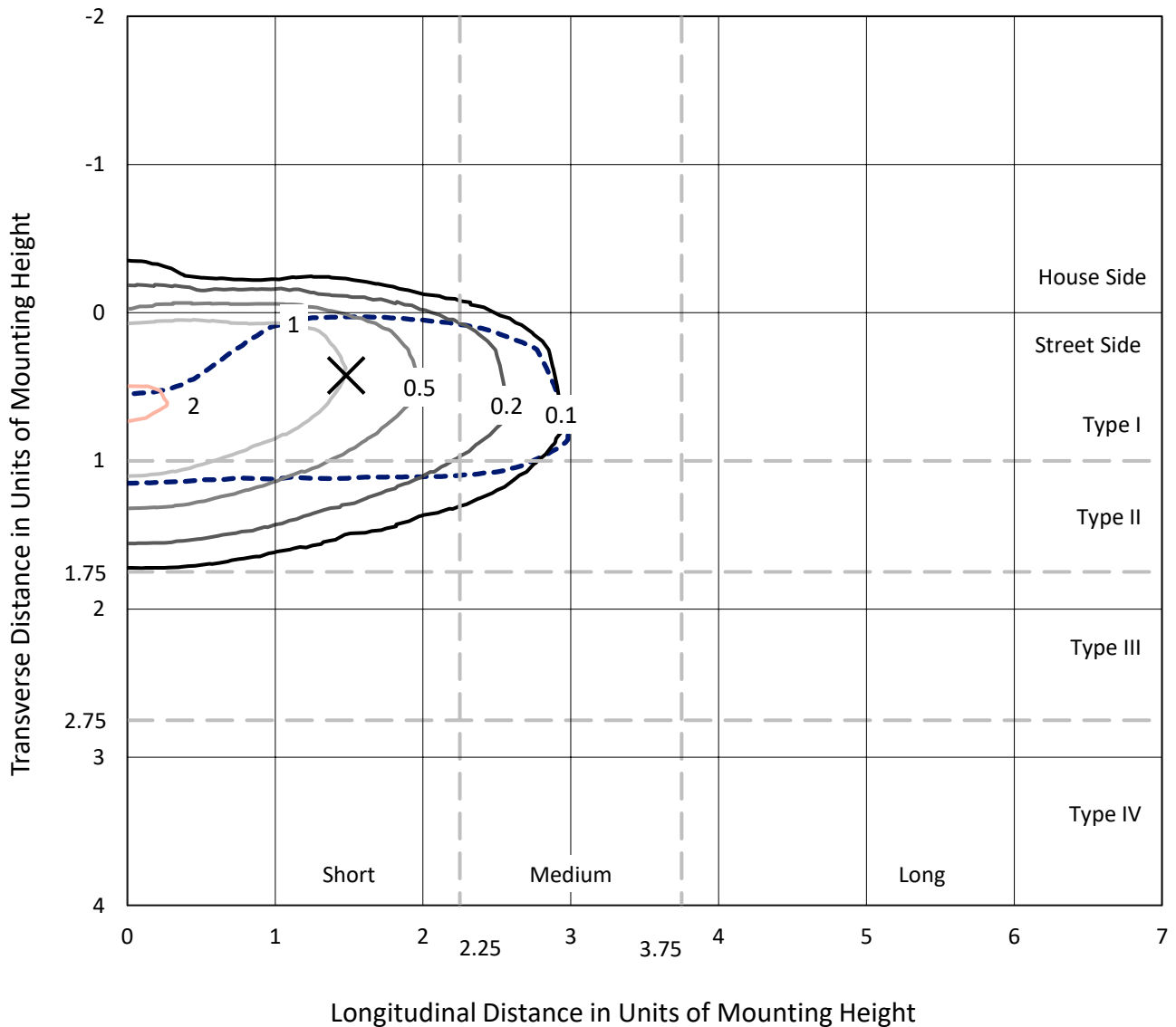
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

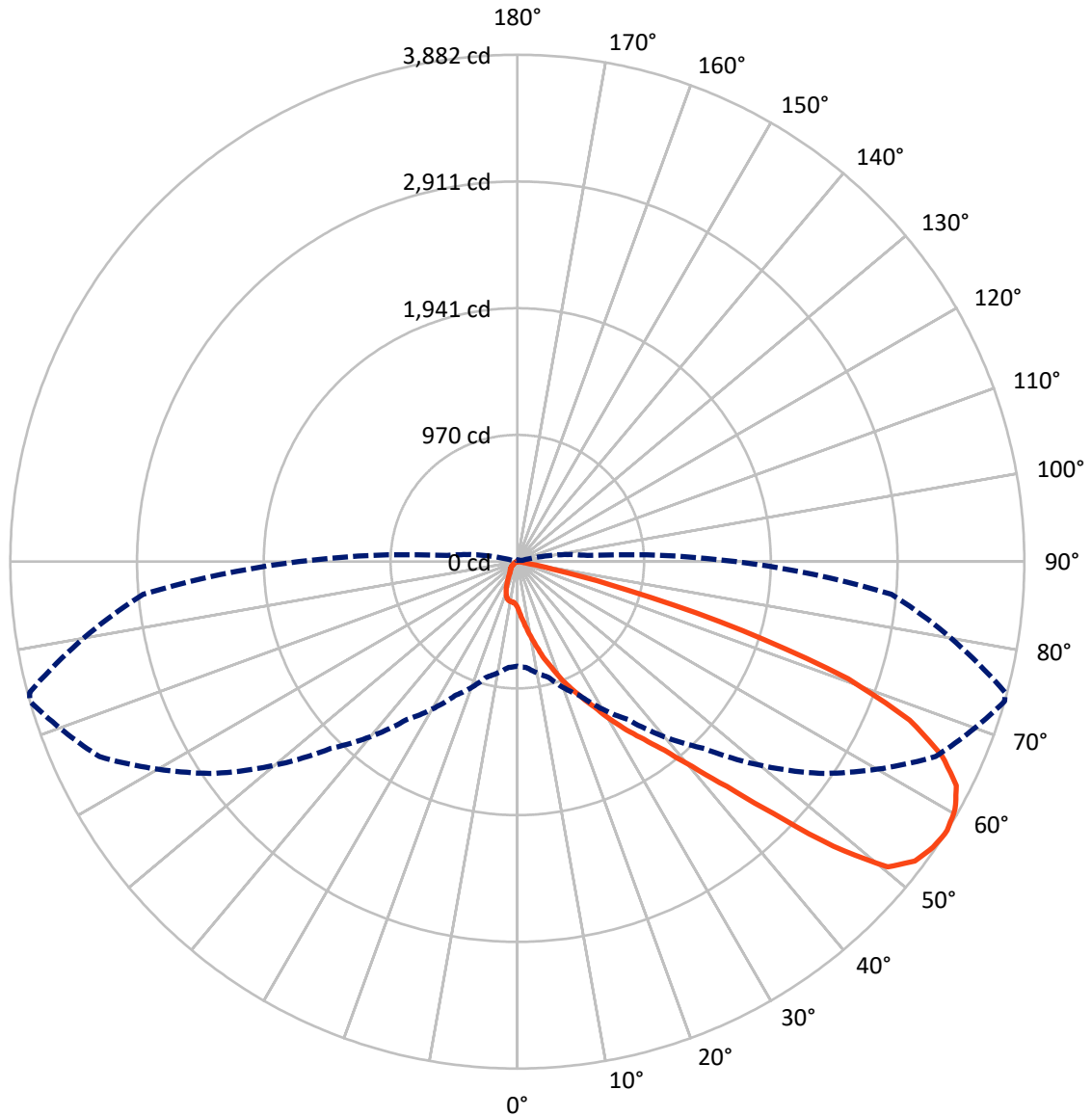
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	242.1	0.0	242.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	3955.9	0.0	3955.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	4198.0	0.0	4198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	1.0
10°-20°	167.3	4.0
20°-30°	357.9	8.5
30°-40°	657.8	15.7
40°-50°	1008.5	24.0
50°-60°	1066.8	25.4
60°-70°	696.7	16.6
70°-80°	190.4	4.5
80°-90°	10.2	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°	4198.0	100.0
0°-180°	4198.0	100.0

Coefficient of Utilization

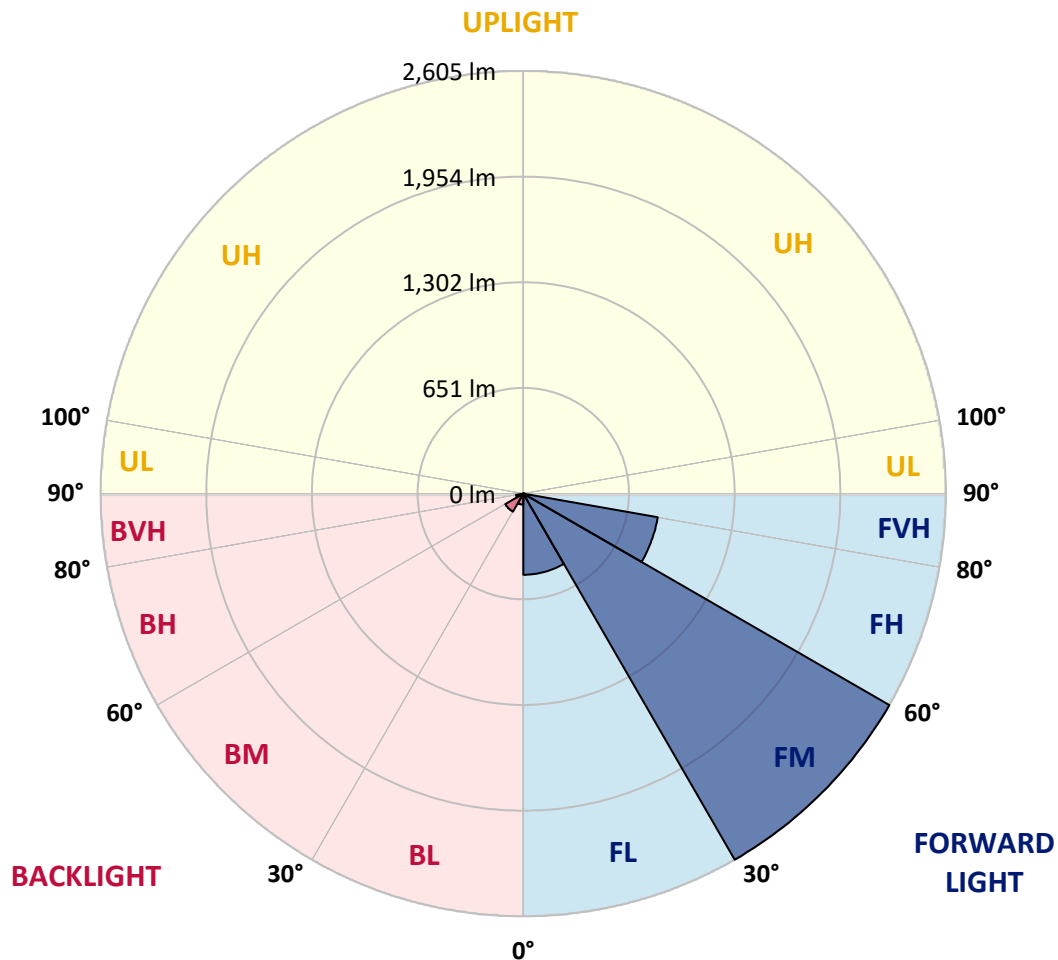


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.0	11.9			
FM (30°-60°)	2604.9	62.1			
FH (60°-80°)	841.6	20.0			G1/1800
FVH (80°-90°)	9.4	0.2			G0/10
BL (0°-30°)	67.6	1.6	B0/110		
BM (30°-60°)	128.2	3.1	B0/220		
BH (60°-80°)	45.5	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6
2.5°	514.5	509.8	500.6	497.4	483.7	462.6	444.0	419.1	399.4	397.4	373.6
5°	689.0	678.5	674.2	653.3	620.5	589.8	537.1	497.1	451.0	447.5	399.7
7.5°	857.1	842.6	838.2	818.5	780.3	731.8	663.4	590.7	517.7	511.0	434.8
10°	978.8	980.8	973.0	960.0	928.9	879.7	795.3	695.9	591.9	583.4	474.2
12.5°	1066.0	1065.7	1067.2	1066.9	1050.4	1013.0	924.3	809.8	673.6	657.1	519.4
15°	1122.8	1123.7	1128.1	1143.1	1144.9	1121.7	1047.8	918.8	768.4	747.8	568.4
17.5°	1180.2	1186.3	1193.3	1207.5	1220.2	1211.0	1158.8	1032.4	854.2	838.8	620.8
20°	1275.0	1283.4	1279.4	1288.1	1294.7	1295.6	1255.3	1137.3	958.2	932.4	680.8
22.5°	1426.6	1426.3	1415.9	1400.2	1387.2	1386.6	1350.1	1245.2	1052.7	1027.8	741.1
25°	1618.2	1619.1	1598.8	1554.1	1521.7	1482.0	1439.9	1339.6	1153.9	1123.1	804.6
27.5°	1837.9	1832.4	1801.7	1740.2	1675.9	1608.0	1547.5	1449.5	1261.1	1235.6	877.3
30°	2035.3	2033.2	1997.3	1922.2	1837.6	1769.5	1681.7	1587.2	1399.9	1368.6	958.8
32.5°	2219.0	2221.9	2172.1	2094.4	2012.7	1934.1	1841.4	1718.8	1536.2	1491.8	1047.5
35°	2362.5	2365.4	2313.8	2249.2	2165.1	2099.9	2011.5	1859.0	1670.6	1633.3	1149.5
37.5°	2439.0	2442.8	2412.9	2364.2	2311.8	2279.0	2196.7	2039.6	1834.1	1811.5	1270.1
40°	2453.5	2457.9	2444.8	2431.8	2428.9	2452.3	2428.3	2252.4	2060.8	2025.4	1449.8
42.5°	2410.0	2415.8	2421.6	2450.6	2509.7	2595.8	2679.6	2541.0	2352.6	2305.1	1669.5
45°	2295.8	2295.3	2318.1	2393.2	2525.7	2709.4	2942.2	2902.5	2750.3	2693.8	1979.9
47.5°	2100.5	2097.6	2147.1	2254.1	2460.5	2730.3	3156.4	3341.3	3257.8	3205.6	2313.5
50°	1802.8	1817.0	1895.0	2044.2	2298.4	2667.1	3222.5	3629.1	3674.3	3619.0	2583.1
52.5°	1454.1	1453.6	1575.9	1778.5	2058.5	2528.0	3176.4	3681.3	3809.7	3767.4	2715.8
55°	1076.2	1083.7	1211.0	1415.3	1746.9	2274.1	3025.9	3627.6	3861.3	3831.4	2803.3
57°	800.5	813.9	915.9	1132.1	1475.6	2022.8	2825.7	3531.7	3881.5	3865.3	2876.1
57.5°	747.2	747.8	847.2	1043.7	1396.2	1926.3	2768.3	3491.7	3881.0	3872.0	2888.0
60°	460.0	474.5	543.2	705.5	1022.0	1503.4	2383.7	3261.9	3850.8	3863.9	2938.7
62.5°	275.3	281.4	326.1	425.2	658.8	1097.3	1950.6	2967.7	3772.3	3812.0	2935.2
65°	177.1	178.5	198.8	257.4	411.9	741.7	1503.1	2579.0	3569.1	3642.1	2820.4
67.5°	136.8	139.1	147.2	169.0	238.8	462.0	1063.1	2164.2	3240.4	3334.6	2542.2
70°	121.4	122.6	125.5	132.5	158.0	260.9	661.4	1690.6	2687.1	2713.8	1989.5
72.5°	99.1	102.3	111.3	113.6	125.2	162.9	368.1	1134.7	1805.4	1812.1	1113.0
75°	76.8	77.4	90.7	97.4	105.5	112.2	164.3	572.1	867.2	820.8	429.0
77.5°	57.4	60.0	66.1	74.5	86.1	80.3	73.6	215.6	269.3	264.3	124.6
80°	36.8	38.3	46.1	55.9	67.0	52.5	41.4	63.2	59.1	60.9	29.9
82.5°	18.5	18.8	29.6	45.5	42.6	26.4	26.1	25.8	22.0	21.7	13.9
85°	2.0	4.3	19.1	26.1	19.1	8.7	12.2	11.9	11.6	11.9	8.1
87.5°	0.3	0.3	3.2	3.8	2.6	2.9	3.5	3.8	4.6	4.3	3.5
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°	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6
2.5°	362.0	350.4	329.0	308.4	293.0	283.2	270.4	265.8	259.1	258.2	255.1
5°	377.7	355.6	318.2	288.7	264.9	246.9	231.3	218.3	207.8	205.5	206.7
7.5°	400.0	367.2	315.1	274.8	241.7	211.0	186.1	170.7	159.7	155.6	156.2
10°	425.2	382.6	314.5	260.0	209.6	171.9	144.6	131.0	124.6	122.3	119.7
12.5°	455.1	400.3	313.0	237.1	174.2	137.1	117.7	109.6	103.5	101.7	101.7
15°	488.7	419.1	306.1	208.7	141.4	113.3	100.3	93.9	91.9	90.1	90.1
17.5°	523.7	437.7	291.6	173.6	117.4	97.1	89.0	85.2	82.3	80.3	80.3
20°	563.7	455.9	268.4	142.6	99.1	86.7	80.3	75.9	73.6	71.9	71.3
22.5°	601.7	470.7	238.8	117.1	86.4	78.0	72.2	67.5	65.2	64.3	64.3
25°	641.1	479.7	203.2	96.8	78.8	70.7	64.3	60.6	58.5	58.0	57.7
27.5°	679.4	484.9	171.9	84.6	71.9	64.1	58.0	55.1	53.0	52.5	52.8
30°	725.8	485.8	141.4	75.9	65.8	57.7	52.2	49.6	48.4	47.8	47.5
32.5°	772.7	484.6	118.8	70.7	60.0	52.2	47.5	45.5	44.6	43.8	43.8
35°	825.5	478.5	101.2	65.5	54.5	47.5	43.5	41.7	40.6	39.7	39.4
37.5°	891.0	475.3	91.0	59.7	49.6	43.2	39.4	37.7	36.8	35.7	35.4
40°	994.2	489.5	87.8	54.5	44.6	39.1	35.7	33.6	32.5	31.3	31.0
42.5°	1122.8	514.5	82.6	49.3	40.3	35.4	31.9	29.6	27.5	26.1	25.5
45°	1289.5	547.2	74.5	43.8	36.5	31.3	28.1	25.2	22.6	21.4	21.2
47.5°	1464.3	578.8	67.2	39.4	32.5	27.8	24.3	21.2	18.8	18.0	17.7
50°	1571.5	585.2	62.6	34.5	28.4	24.1	20.6	17.7	16.2	15.4	15.4
52.5°	1620.5	575.0	56.2	30.1	24.6	21.2	17.7	15.4	14.5	13.9	13.6
55°	1654.7	559.4	47.8	26.1	21.2	18.0	15.7	13.9	12.8	12.2	11.9
57°	1674.7	538.2	41.4	22.9	18.3	15.7	13.9	12.5	11.3	10.1	10.1
57.5°	1675.6	530.1	39.7	22.6	17.4	15.1	13.6	12.2	10.7	9.6	9.3
60°	1649.8	474.5	31.9	19.1	13.9	12.8	11.3	9.6	7.5	6.4	6.1
62.5°	1566.9	403.7	26.4	16.2	11.3	9.9	8.1	7.2	5.2	3.8	3.8
65°	1441.4	327.5	22.6	13.0	9.3	7.2	5.5	5.2	3.2	1.7	1.4
67.5°	1259.9	255.1	19.1	10.7	7.8	5.2	3.8	3.5	1.7	0.6	0.0
70°	960.0	173.9	15.9	8.7	5.8	3.8	2.6	2.0	1.2	0.3	0.0
72.5°	553.3	95.6	13.3	6.7	4.3	2.9	2.0	1.2	1.2	0.0	0.0
75°	197.7	41.2	10.1	4.9	3.5	2.3	1.4	0.6	0.9	0.3	0.0
77.5°	62.9	22.0	6.7	3.8	2.9	1.7	1.2	0.6	0.6	0.3	0.0
80°	18.5	11.6	4.1	3.2	2.0	1.4	0.9	0.3	0.6	0.3	0.0
82.5°	10.1	5.8	3.2	2.3	2.0	1.2	0.9	0.3	0.3	0.3	0.0
85°	5.2	3.5	2.6	2.3	2.0	1.2	0.9	0.3	0.0	0.3	0.3
87.5°	2.9	2.6	2.6	2.3	2.0	1.4	0.9	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)