

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: P458625

Luminaire Tested: **GALN-SA1D-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5251 lumens
Efficiency: N/A
Efficacy: 80.8 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

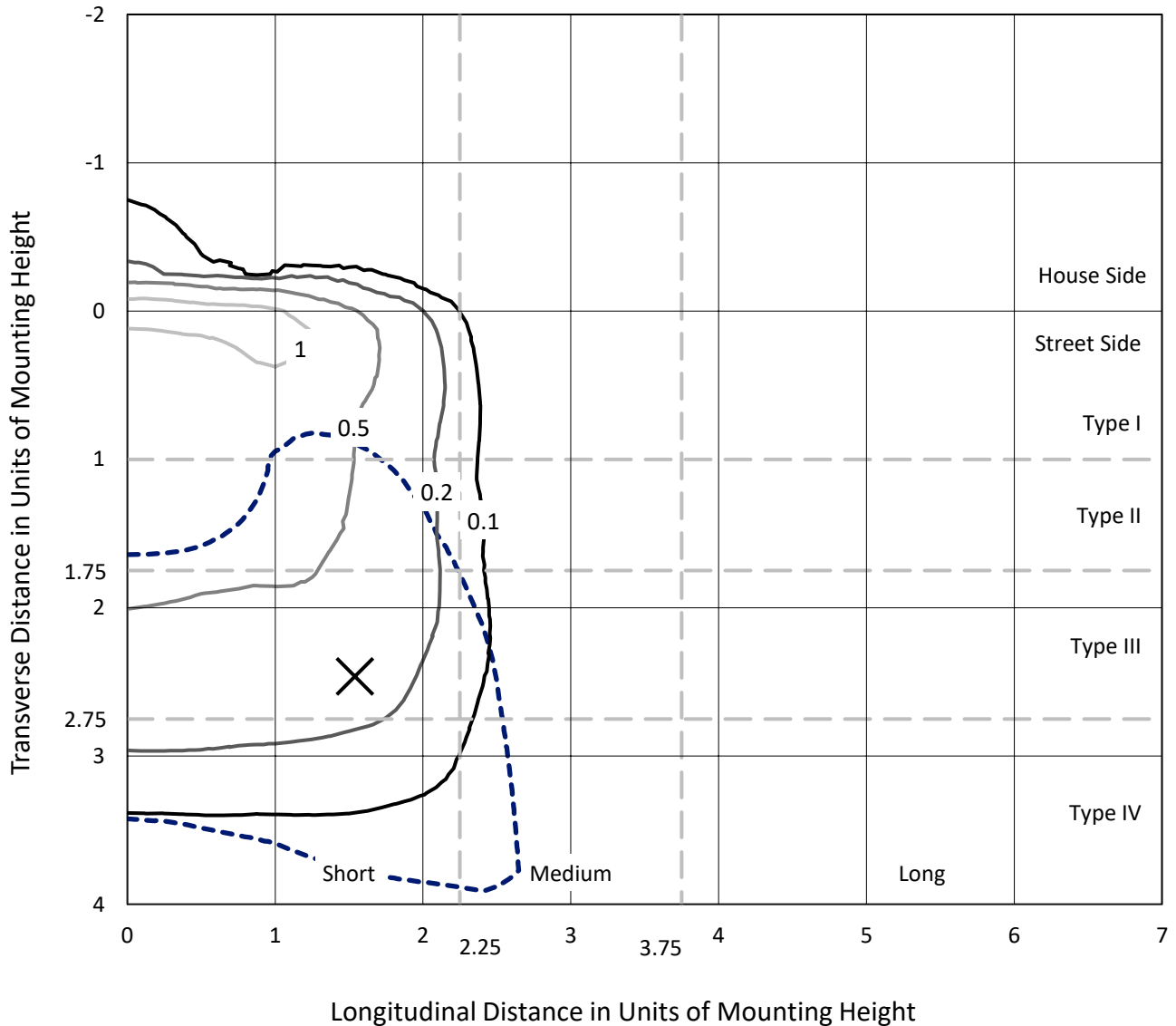
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

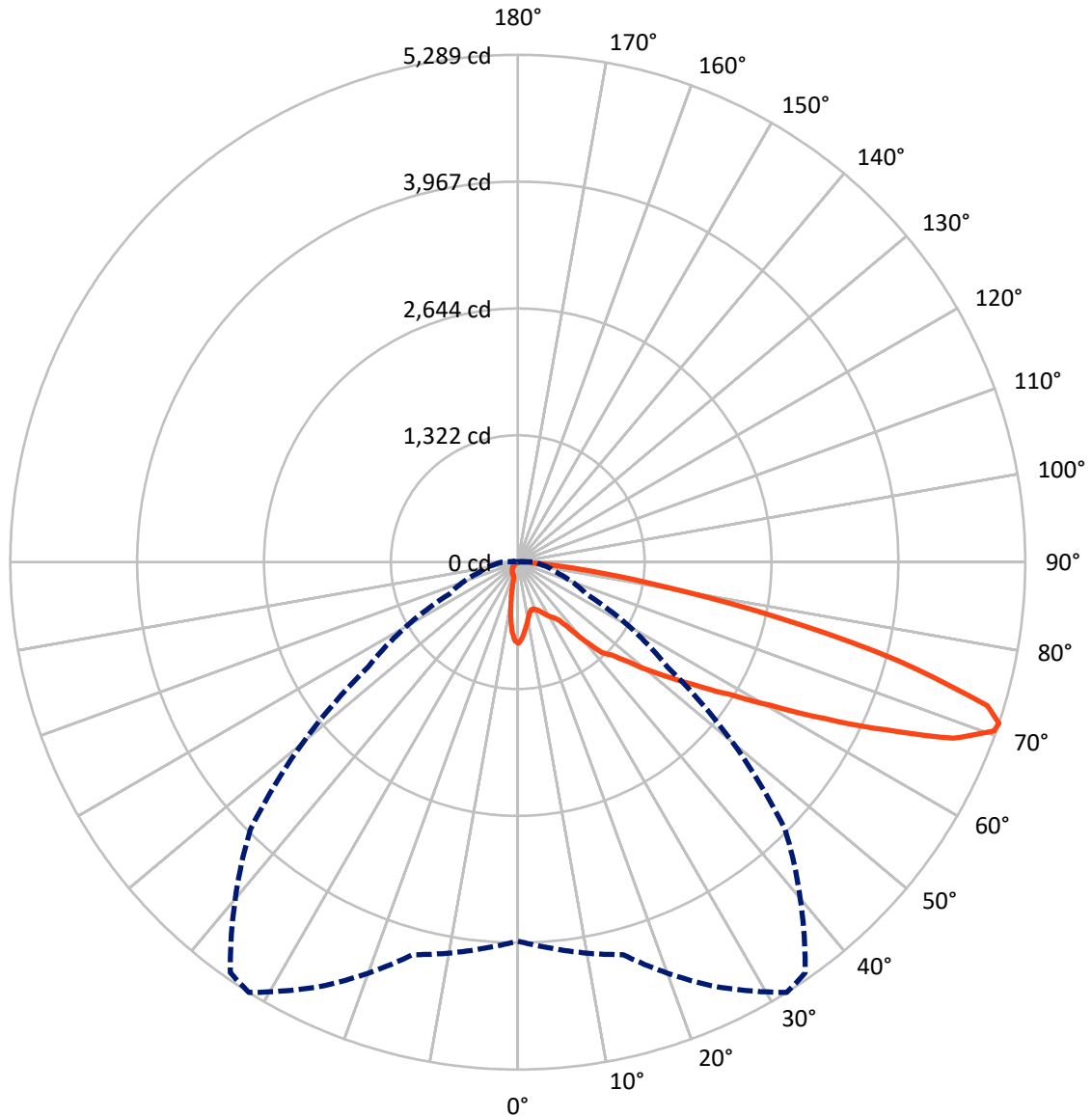
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	439.8	0.0	439.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4811.2	0.0	4811.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	5251.0	0.0	5251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.3
10°-20°	149.0	2.8
20°-30°	231.8	4.4
30°-40°	386.2	7.4
40°-50°	718.5	13.7
50°-60°	1153.5	22.0
60°-70°	1551.5	29.5
70°-80°	920.5	17.5
80°-90°	71.2	1.4
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°	5251.0	100.0
0°-180°	5251.0	100.0

Coefficient of Utilization

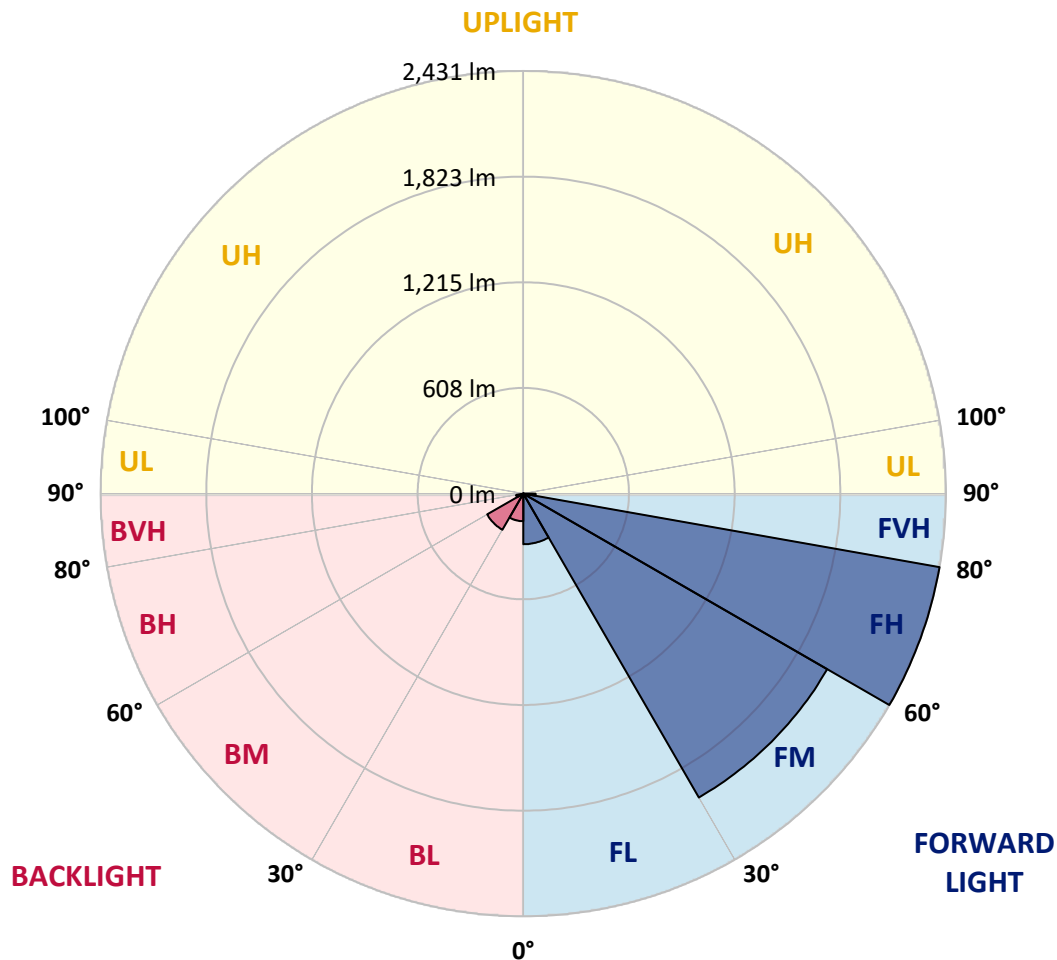


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.0	5.5			
FM (30°-60°)	2018.3	38.4			
FH (60°-80°)	2431.0	46.3			G2/5000
FVH (80°-90°)	70.9	1.3			G1/100
BL (0°-30°)	158.5	3.0	B1/500		
BM (30°-60°)	239.9	4.6	B1/1000		
BH (60°-80°)	41.1	0.8	B0/110		G0/110
BVH (80°-90°)	0.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4
2.5°	783.2	791.2	790.0	792.8	799.7	802.5	810.2	818.6	830.3	838.4	843.6
5°	701.4	707.4	708.2	722.3	729.2	736.8	759.4	784.0	811.4	833.2	847.7
7.5°	613.9	617.1	623.6	642.1	659.4	667.1	701.4	744.1	787.2	827.9	854.1
10°	541.7	545.4	557.1	576.8	592.9	603.0	650.6	704.2	764.6	825.1	863.4
12.5°	500.6	502.6	507.1	524.8	545.4	556.2	607.4	668.7	746.5	826.3	879.1
15°	497.8	497.0	491.8	499.0	517.5	528.8	578.8	644.5	730.4	830.3	897.6
17.5°	512.7	510.7	498.2	498.2	513.5	522.8	566.7	631.6	722.3	839.6	923.8
20°	535.7	532.5	511.9	510.3	525.2	534.9	574.0	632.4	723.9	856.9	958.9
22.5°	564.7	561.1	530.0	530.9	547.0	556.6	594.9	646.9	734.0	878.3	996.4
25°	602.6	598.6	561.9	560.3	577.2	585.7	626.0	672.7	748.1	904.9	1045.6
27.5°	653.0	644.5	600.6	598.2	616.3	627.2	663.5	707.4	773.1	941.6	1111.7
30°	694.5	685.2	643.3	636.9	656.2	664.7	702.2	754.2	822.3	1005.7	1203.2
32.5°	748.9	735.2	686.0	669.1	689.7	700.5	758.2	841.2	895.2	1073.4	1312.0
35°	871.4	863.0	802.9	743.7	742.5	756.2	840.8	929.1	970.2	1179.0	1460.3
37.5°	1046.8	1040.7	977.1	897.6	874.7	868.2	941.2	1025.8	1089.9	1324.1	1632.9
40°	1250.3	1236.2	1177.8	1110.5	1080.6	1061.7	1059.7	1169.7	1246.3	1521.2	1812.6
42.5°	1396.3	1370.5	1299.5	1294.7	1288.2	1268.5	1211.2	1380.1	1448.2	1733.2	2004.9
45°	1549.4	1510.3	1404.7	1386.6	1384.2	1383.0	1440.2	1629.2	1668.3	1963.0	2202.4
47.5°	1668.3	1637.3	1550.6	1542.6	1552.6	1580.1	1742.9	1893.6	1885.6	2167.7	2368.1
50°	1826.7	1803.4	1707.0	1722.3	1774.3	1819.1	2084.3	2181.8	2064.1	2329.0	2488.6
52.5°	2013.8	1970.6	1881.2	1922.7	2002.5	2077.0	2446.7	2434.2	2189.5	2450.3	2578.5
55°	2175.8	2145.2	2114.5	2157.7	2277.0	2370.1	2774.0	2623.2	2280.6	2547.8	2618.0
57.5°	2449.9	2442.6	2411.2	2455.1	2599.8	2696.6	3067.0	2769.9	2339.0	2598.6	2571.6
60°	2855.4	2843.7	2785.3	2841.3	3029.9	3181.9	3337.1	2901.7	2352.3	2578.9	2438.2
62.5°	3343.1	3303.2	3253.2	3335.9	3594.6	3661.5	3591.4	2979.9	2302.8	2421.7	2116.5
65°	3798.6	3757.5	3758.7	3932.8	4214.6	4260.1	3888.1	2968.2	2157.7	2027.9	1561.1
67.5°	4147.2	4140.4	4189.6	4529.4	4897.8	4866.3	4153.3	2793.3	1727.6	1314.4	829.5
70°	4165.0	4178.3	4319.4	4892.9	5267.0	5217.0	4130.7	2270.5	1077.0	604.6	326.9
71°	3950.5	4040.0	4235.1	4881.6	5288.8	5223.9	3940.5	1901.7	790.0	421.6	235.8
72.5°	3366.5	3413.6	3835.3	4594.3	5116.6	4978.0	3458.0	1333.0	505.9	258.0	135.4
75°	1854.1	1970.2	2568.4	3604.3	4092.4	3970.7	2253.6	633.2	252.3	141.1	56.0
77.5°	882.7	860.2	1253.2	2143.6	2774.8	2768.3	1135.5	281.3	147.1	95.5	28.2
80°	252.3	283.8	479.7	1019.0	1540.6	1557.5	436.1	135.8	102.0	74.6	14.5
82.5°	76.2	77.8	176.1	450.6	766.2	722.3	163.6	69.3	73.4	59.3	8.5
85°	13.3	16.5	52.0	158.8	292.2	221.7	41.1	33.1	48.4	39.1	4.8
87.5°	0.8	1.2	17.3	18.1	25.8	14.9	7.3	4.8	10.5	10.5	2.8
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°	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4
2.5°	847.3	849.7	848.1	844.4	838.4	831.1	821.5	813.4	806.6	802.9	807.4
5°	852.5	855.7	847.7	829.5	802.1	772.3	738.4	712.2	691.7	685.2	682.8
7.5°	860.6	862.6	840.8	800.5	742.5	671.9	610.3	558.3	518.0	505.9	488.1
10°	871.0	869.8	828.7	753.8	651.8	545.8	450.2	379.3	325.7	306.3	304.7
12.5°	887.2	880.7	813.4	690.1	543.7	405.1	287.0	224.5	190.7	179.4	177.0
15°	907.3	892.0	789.2	615.5	416.4	261.6	177.0	158.0	153.6	152.8	152.0
17.5°	931.1	906.9	757.4	524.0	292.6	169.7	147.9	147.5	147.9	147.1	146.7
20°	963.4	922.6	719.5	415.6	193.5	143.1	141.1	141.1	141.5	141.1	141.1
22.5°	997.6	941.2	672.7	317.2	145.9	135.8	135.4	136.2	137.0	136.6	136.6
25°	1039.9	965.4	611.1	217.3	130.6	129.8	130.2	131.8	133.4	133.8	133.4
27.5°	1101.2	995.2	545.0	149.5	119.7	120.5	124.6	128.6	131.0	131.4	131.4
30°	1170.1	1028.2	458.7	121.3	110.8	110.8	115.7	123.3	128.6	129.4	129.8
32.5°	1258.8	1066.5	363.2	109.2	102.4	101.6	106.0	115.3	125.0	127.8	127.8
35°	1368.4	1111.7	270.1	101.6	96.3	94.3	96.7	104.4	116.9	125.0	125.8
37.5°	1497.0	1154.4	197.5	94.7	90.7	87.9	89.5	95.5	105.6	117.7	120.9
40°	1615.9	1192.3	147.5	89.1	85.0	83.0	84.2	87.1	95.5	106.8	108.8
42.5°	1745.7	1221.7	117.3	83.0	79.4	78.6	78.6	79.8	85.5	91.9	92.3
45°	1875.1	1232.2	98.4	75.8	73.4	74.2	73.8	73.0	75.4	74.6	74.6
47.5°	1967.4	1219.7	81.4	68.9	68.9	70.1	68.1	65.3	64.1	59.3	59.7
50°	2030.7	1174.2	66.9	60.9	64.1	65.7	61.7	57.2	52.8	47.6	46.4
52.5°	2056.9	1093.1	54.8	50.4	56.8	58.8	54.0	48.8	41.9	37.5	36.3
55°	2040.0	993.2	45.5	41.1	48.0	50.4	45.5	39.5	31.8	27.0	26.2
57.5°	1965.4	873.9	38.7	32.6	38.3	39.9	36.7	30.2	22.6	17.7	17.7
60°	1836.4	750.5	31.4	25.8	28.6	31.0	27.8	21.8	15.3	10.9	10.1
62.5°	1574.8	609.4	25.4	20.2	20.2	22.2	19.3	15.7	9.7	5.6	5.2
65°	1137.1	418.0	20.2	14.9	14.5	14.5	12.1	10.5	5.6	2.4	1.6
67.5°	617.9	235.8	16.1	11.3	10.1	9.7	7.7	6.0	2.4	0.4	0.0
70°	243.1	90.7	12.5	7.7	6.4	6.0	4.0	2.8	1.6	0.0	0.0
71°	164.9	62.5	10.9	6.4	5.2	4.4	3.2	2.4	1.2	0.0	0.0
72.5°	94.3	38.7	8.5	4.8	4.0	3.2	2.4	1.6	1.2	0.0	0.0
75°	41.1	19.8	5.2	3.6	2.8	2.0	1.6	1.2	0.4	0.0	0.0
77.5°	21.0	10.9	3.6	2.8	1.6	1.2	0.8	0.4	0.0	0.0	0.0
80°	11.7	5.6	2.4	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
82.5°	6.4	3.2	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.8	0.0	0.0	0.0	0.0	0.4	0.4	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)