

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: P651759

Luminaire Tested: **GALN-SA2A-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651759
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-SA2A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5569.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

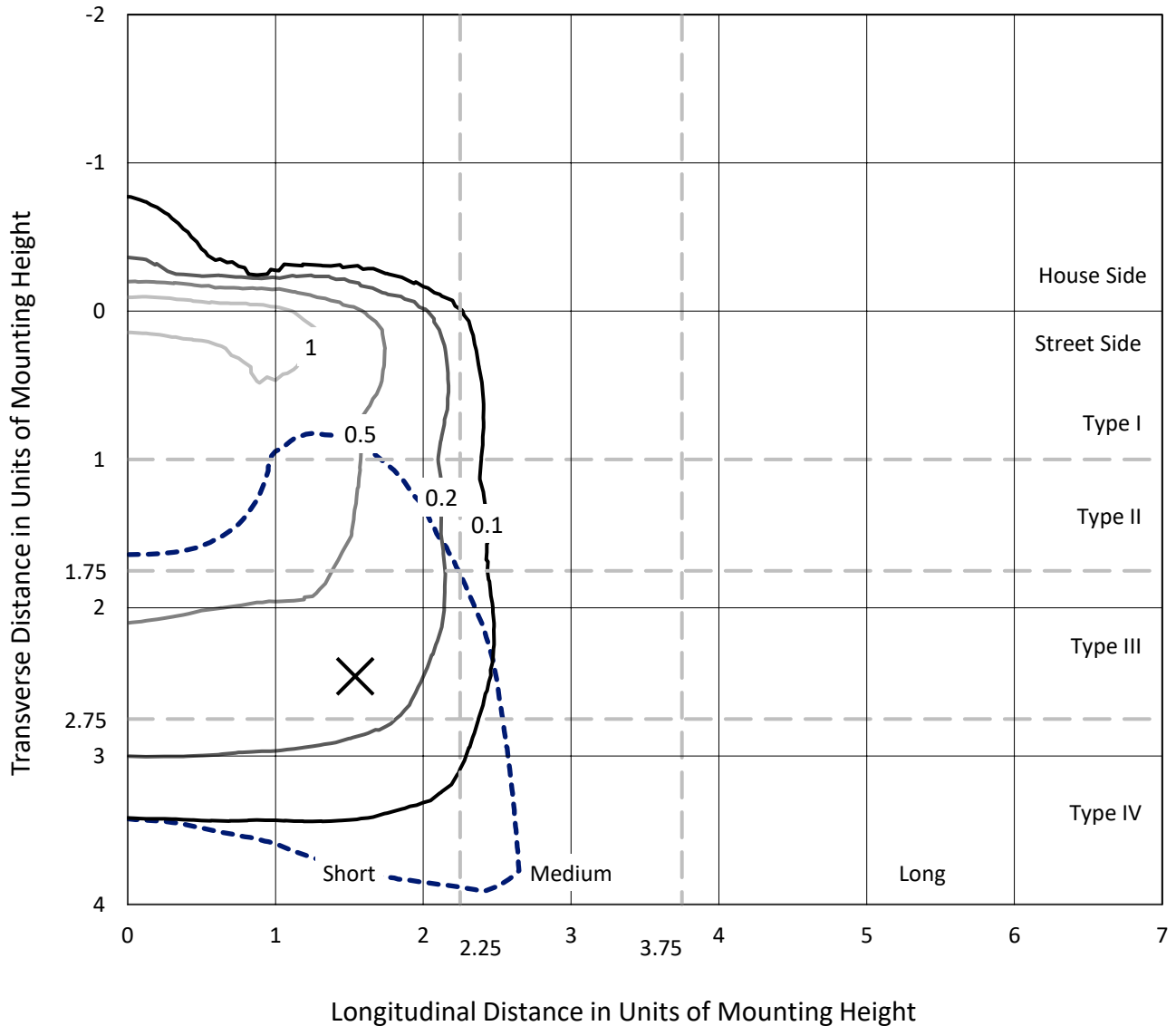
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

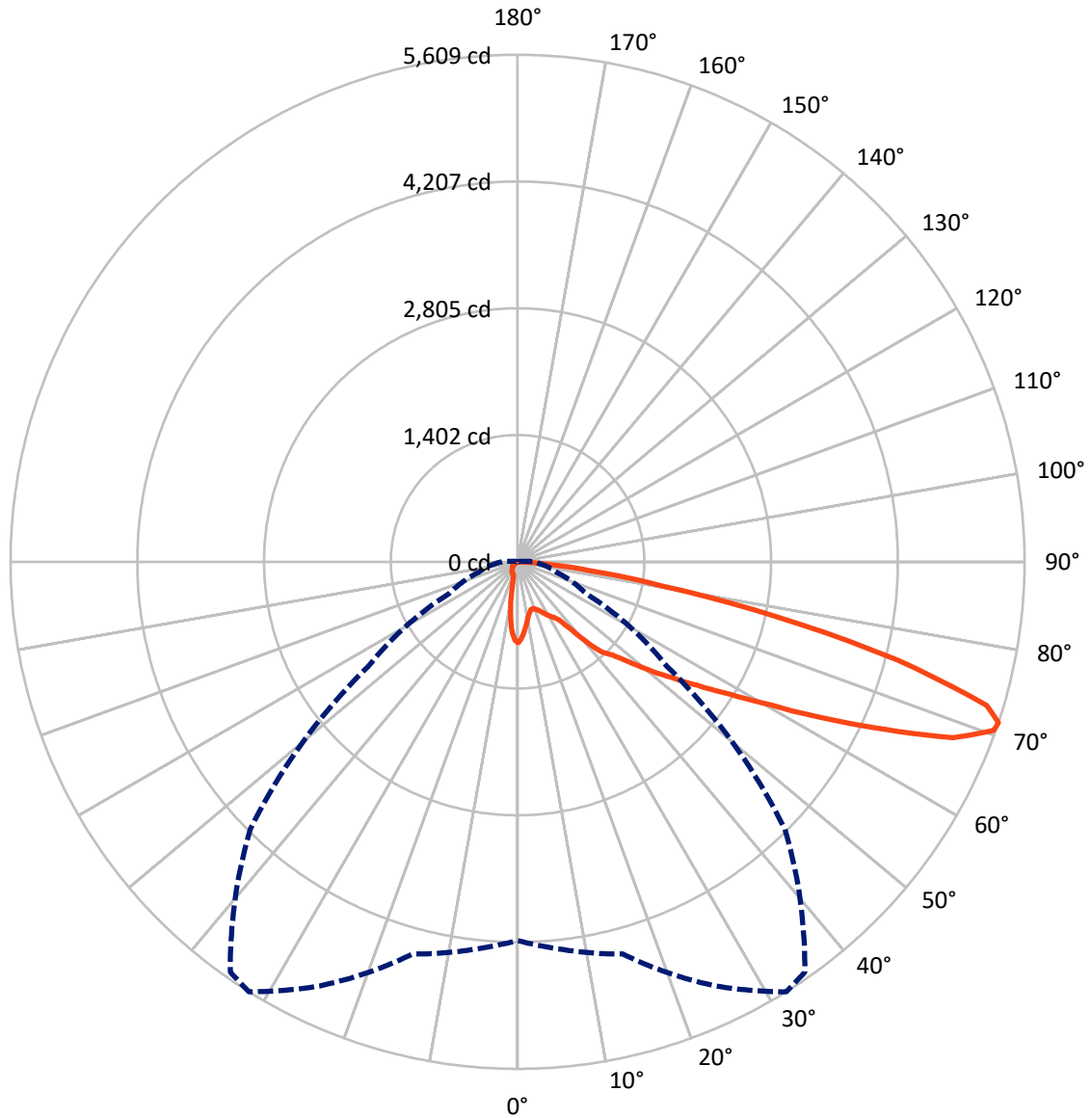
× Max cd
 - - - 1/2 Max cd



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	466.5	0.0	466.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5102.6	0.0	5102.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	5569.1	0.0	5569.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.3
10°-20°	158.1	2.8
20°-30°	245.9	4.4
30°-40°	409.6	7.4
40°-50°	762.0	13.7
50°-60°	1223.4	22.0
60°-70°	1645.5	29.5
70°-80°	976.3	17.5
80°-90°	75.5	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°	5569.1	100.0
0°-180°	5569.1	100.0

Coefficient of Utilization

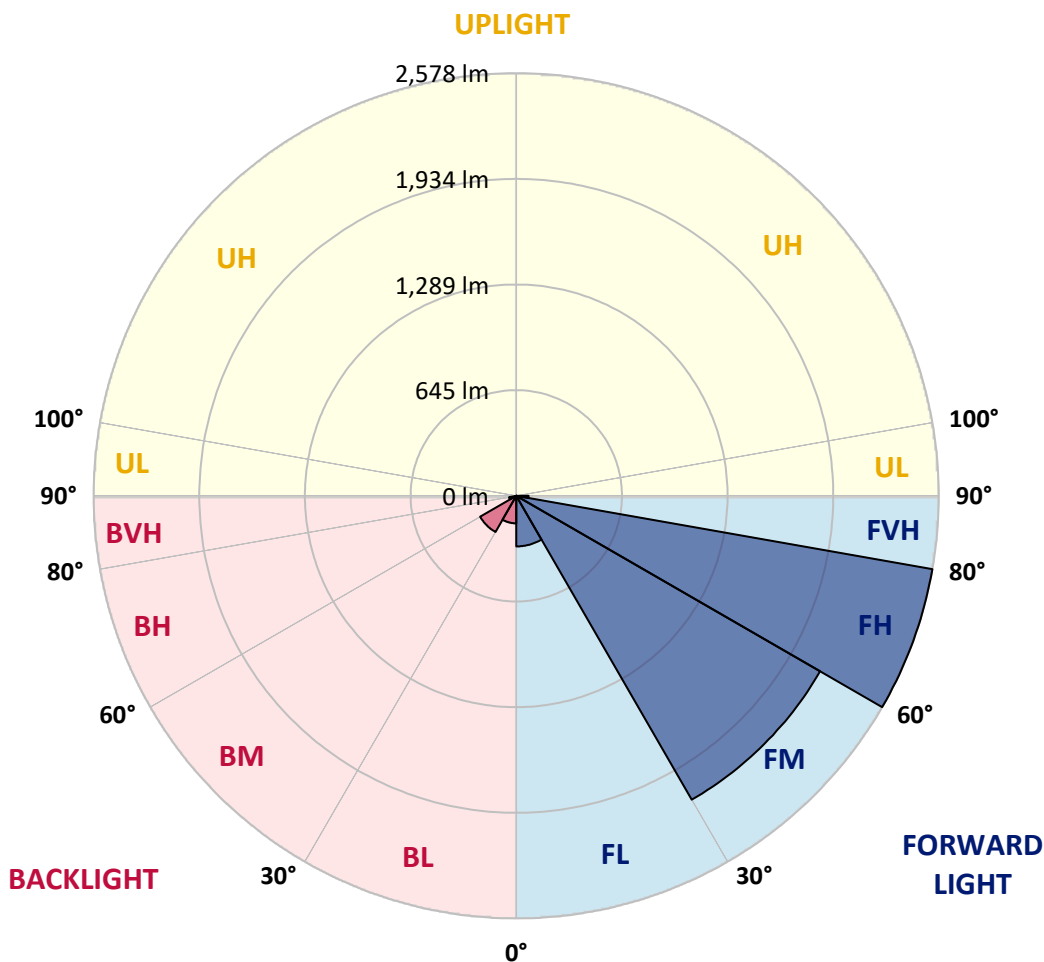


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.7	5.5			
FM (30°-60°)	2140.6	38.4			
FH (60°-80°)	2578.2	46.3			G2/5000
FVH (80°-90°)	75.2	1.3			G1/100
BL (0°-30°)	168.1	3.0	B1/500		
BM (30°-60°)	254.5	4.6	B1/1000		
BH (60°-80°)	43.6	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°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	830.7	839.1	837.9	840.9	848.1	851.2	859.2	868.2	880.6	889.2	894.7
5°	743.9	750.3	751.1	766.1	773.3	781.5	805.4	831.5	860.5	883.6	899.0
7.5°	651.1	654.5	661.4	681.0	699.4	707.5	743.9	789.2	834.9	878.1	905.8
10°	574.6	578.4	590.8	611.7	628.8	639.5	690.0	746.8	811.0	875.1	915.7
12.5°	530.9	533.1	537.8	556.6	578.4	590.0	644.2	709.2	791.7	876.3	932.3
15°	528.0	527.1	521.5	529.2	548.9	560.9	613.8	683.6	774.6	880.6	952.0
17.5°	543.8	541.6	528.4	528.4	544.6	554.5	601.1	669.9	766.1	890.5	979.8
20°	568.2	564.7	542.9	541.2	557.0	567.3	608.7	670.7	767.7	908.9	1017.0
22.5°	599.0	595.1	562.1	563.0	580.1	590.4	631.0	686.1	778.4	931.5	1056.8
25°	639.1	634.8	595.9	594.3	612.2	621.2	663.9	713.5	793.4	959.7	1108.9
27.5°	692.6	683.6	637.0	634.4	653.6	665.1	703.7	750.3	819.9	998.6	1179.0
30°	736.5	726.7	682.3	675.4	695.9	704.9	744.7	799.9	872.1	1066.6	1276.0
32.5°	794.3	779.8	727.6	709.6	731.4	743.0	804.1	892.2	949.5	1138.4	1391.5
35°	924.3	915.3	851.6	788.7	787.4	802.0	891.7	985.4	1029.0	1250.4	1548.8
37.5°	1110.2	1103.8	1036.3	952.0	927.6	920.8	998.2	1088.0	1156.0	1404.3	1731.8
40°	1326.1	1311.1	1249.1	1177.7	1146.1	1126.0	1123.9	1240.6	1321.8	1613.4	1922.4
42.5°	1480.8	1453.5	1378.2	1373.1	1366.3	1345.3	1284.6	1463.8	1536.0	1838.3	2126.4
45°	1643.3	1601.9	1489.8	1470.6	1468.0	1466.7	1527.4	1727.9	1769.4	2081.9	2335.8
47.5°	1769.4	1736.5	1644.6	1636.0	1646.7	1675.8	1848.5	2008.4	1999.8	2299.0	2511.6
50°	1937.4	1912.6	1810.4	1826.7	1881.8	1929.3	2210.6	2314.0	2189.2	2470.0	2639.3
52.5°	2135.7	2090.1	1995.1	2039.2	2123.8	2202.8	2594.9	2581.6	2322.2	2598.8	2734.7
55°	2307.6	2275.2	2242.6	2288.4	2414.9	2513.7	2942.0	2782.1	2418.7	2702.2	2776.6
57.5°	2598.3	2590.6	2557.2	2603.8	2757.3	2859.9	3252.8	2937.7	2480.8	2756.0	2727.4
60°	3028.4	3016.0	2954.0	3013.4	3213.5	3374.6	3539.2	3077.6	2494.8	2735.1	2585.9
62.5°	3545.7	3503.3	3450.3	3537.9	3812.4	3883.3	3809.0	3160.5	2442.3	2568.4	2244.8
65°	4028.7	3985.1	3986.3	4171.0	4469.8	4518.2	4123.6	3148.0	2288.4	2150.7	1655.7
67.5°	4398.5	4391.2	4443.3	4803.7	5194.4	5161.1	4404.9	2962.5	1832.2	1394.0	879.8
70°	4417.3	4431.4	4581.0	5189.3	5586.1	5533.0	4380.9	2408.0	1142.2	641.3	346.7
71°	4189.9	4284.7	4491.7	5177.4	5609.1	5540.3	4179.2	2016.9	837.9	447.2	250.1
72.5°	3570.5	3620.4	4067.6	4872.6	5426.6	5279.5	3667.4	1413.7	536.5	273.6	143.6
75°	1966.5	2089.5	2724.0	3822.7	4340.3	4211.2	2390.1	671.6	267.6	149.6	59.5
77.5°	936.2	912.2	1329.1	2273.4	2942.8	2936.0	1204.2	298.4	156.0	101.3	29.9
80°	267.6	301.0	508.7	1080.7	1633.9	1651.8	462.6	144.1	108.2	79.1	15.4
82.5°	80.8	82.5	186.8	477.9	812.7	766.1	173.6	73.5	77.8	62.8	9.0
85°	14.1	17.5	55.2	168.5	309.9	235.1	43.6	35.1	51.3	41.5	5.1
87.5°	0.8	1.3	18.4	19.3	27.3	15.8	7.7	5.1	11.1	11.1	3.0
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°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	898.6	901.1	899.4	895.6	889.2	881.5	871.2	862.7	855.4	851.6	856.3
5°	904.2	907.6	899.0	879.8	850.7	819.0	783.1	755.4	733.6	726.7	724.2
7.5°	912.7	914.8	891.7	849.0	787.4	712.7	647.2	592.1	549.3	536.5	517.7
10°	923.8	922.5	878.9	799.5	691.2	578.9	477.5	402.3	345.4	324.9	323.2
12.5°	940.9	934.1	862.7	731.8	576.7	429.7	304.4	238.1	202.2	190.2	187.7
15°	962.3	946.0	837.0	652.8	441.6	277.4	187.7	167.6	162.9	162.1	161.1
17.5°	987.5	961.9	803.2	555.7	310.3	180.0	156.9	156.4	156.9	156.0	155.6
20°	1021.7	978.5	763.0	440.8	205.2	151.8	149.6	149.6	150.0	149.6	149.6
22.5°	1058.1	998.2	713.5	336.4	154.7	144.1	143.6	144.5	145.3	144.9	144.9
25°	1103.0	1023.8	648.1	230.4	138.5	137.7	138.1	139.8	141.5	142.0	141.5
27.5°	1167.9	1055.5	577.9	158.6	127.0	127.8	132.1	136.4	138.9	139.4	139.4
30°	1241.0	1090.5	486.5	128.7	117.6	117.6	122.7	130.8	136.4	137.3	137.7
32.5°	1335.1	1131.1	385.2	115.9	108.6	107.7	112.4	122.3	132.5	135.5	135.5
35°	1451.3	1179.0	286.4	107.7	102.2	100.0	102.6	110.8	124.0	132.5	133.4
37.5°	1587.7	1224.3	209.5	100.5	96.2	93.2	94.9	101.3	112.0	124.8	128.3
40°	1713.8	1264.5	156.4	94.4	90.2	88.1	89.3	92.3	101.3	113.3	115.4
42.5°	1851.5	1295.7	124.4	88.1	84.2	83.3	83.3	84.6	90.7	97.5	97.9
45°	1988.7	1306.8	104.3	80.4	77.8	78.6	78.2	77.4	80.0	79.1	79.1
47.5°	2086.6	1293.6	86.4	73.1	73.1	74.3	72.2	69.2	68.0	62.8	63.2
50°	2153.7	1245.3	71.0	64.6	68.0	69.7	65.4	60.7	56.0	50.5	49.2
52.5°	2181.5	1159.4	58.1	53.4	60.3	62.4	57.3	51.7	44.5	39.8	38.4
55°	2163.6	1053.4	48.3	43.6	50.9	53.4	48.3	41.9	33.8	28.7	27.8
57.5°	2084.4	926.8	41.0	34.6	40.6	42.3	38.9	32.0	24.0	18.8	18.8
60°	1947.7	796.0	33.3	27.3	30.4	32.9	29.5	23.0	16.2	11.5	10.7
62.5°	1670.2	646.4	26.9	21.4	21.4	23.5	20.5	16.7	10.3	6.0	5.6
65°	1206.0	443.3	21.4	15.8	15.4	15.4	12.8	11.1	6.0	2.5	1.7
67.5°	655.3	250.1	17.1	11.9	10.7	10.3	8.2	6.4	2.5	0.4	0.0
70°	257.8	96.2	13.3	8.2	6.8	6.4	4.3	3.0	1.7	0.0	0.0
71°	174.8	66.3	11.5	6.8	5.6	4.7	3.4	2.5	1.3	0.0	0.0
72.5°	100.0	41.0	9.0	5.1	4.3	3.4	2.5	1.7	1.3	0.0	0.0
75°	43.6	20.9	5.6	3.9	3.0	2.1	1.7	1.3	0.4	0.0	0.0
77.5°	22.2	11.5	3.9	3.0	1.7	1.3	0.8	0.4	0.0	0.0	0.0
80°	12.4	6.0	2.5	1.7	1.3	0.8	0.4	0.4	0.0	0.0	0.0
82.5°	6.8	3.4	1.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)