

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: P458683

Luminaire Tested: **GALN-SA2B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458683
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-SA2B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 7676 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

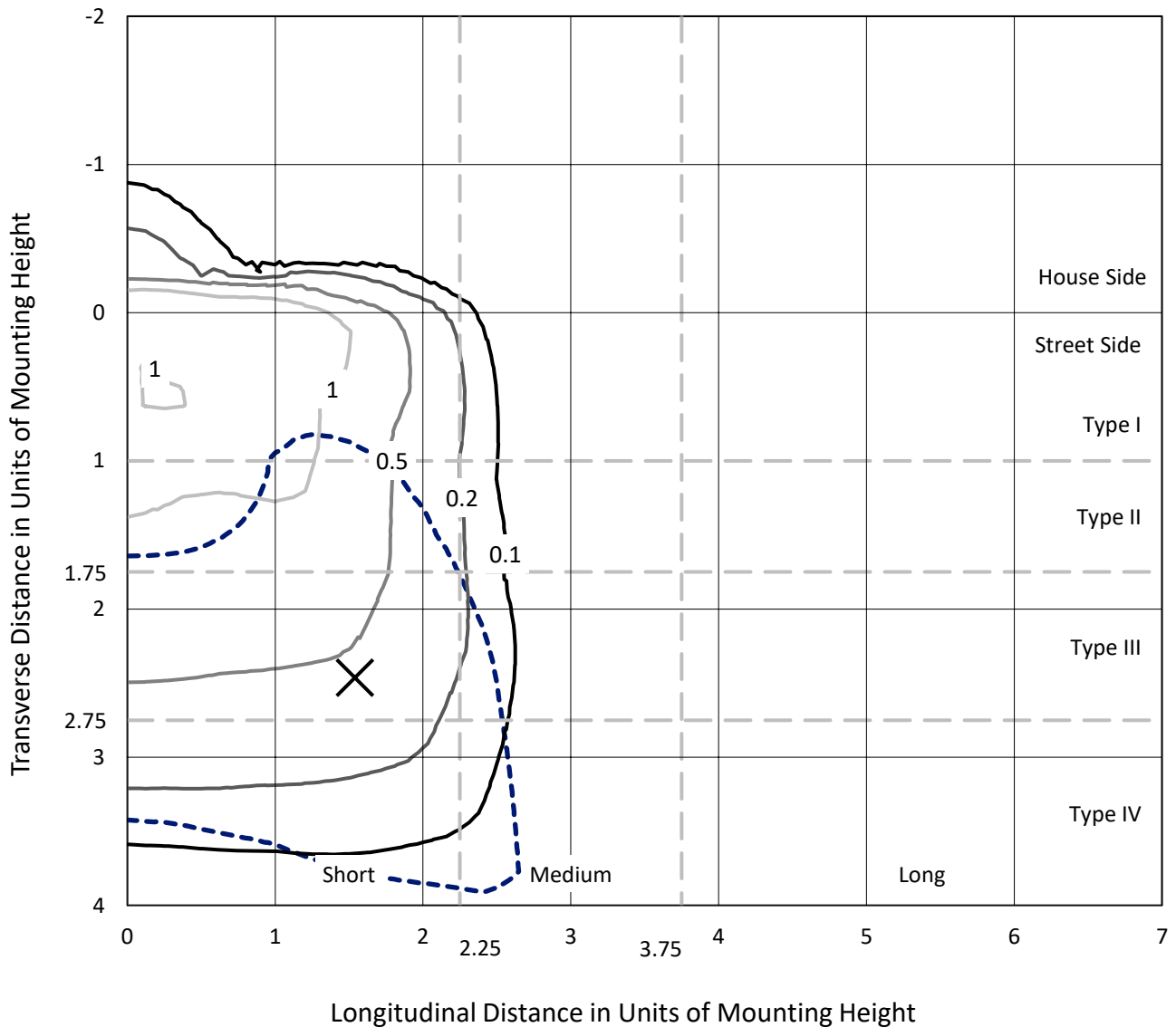
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

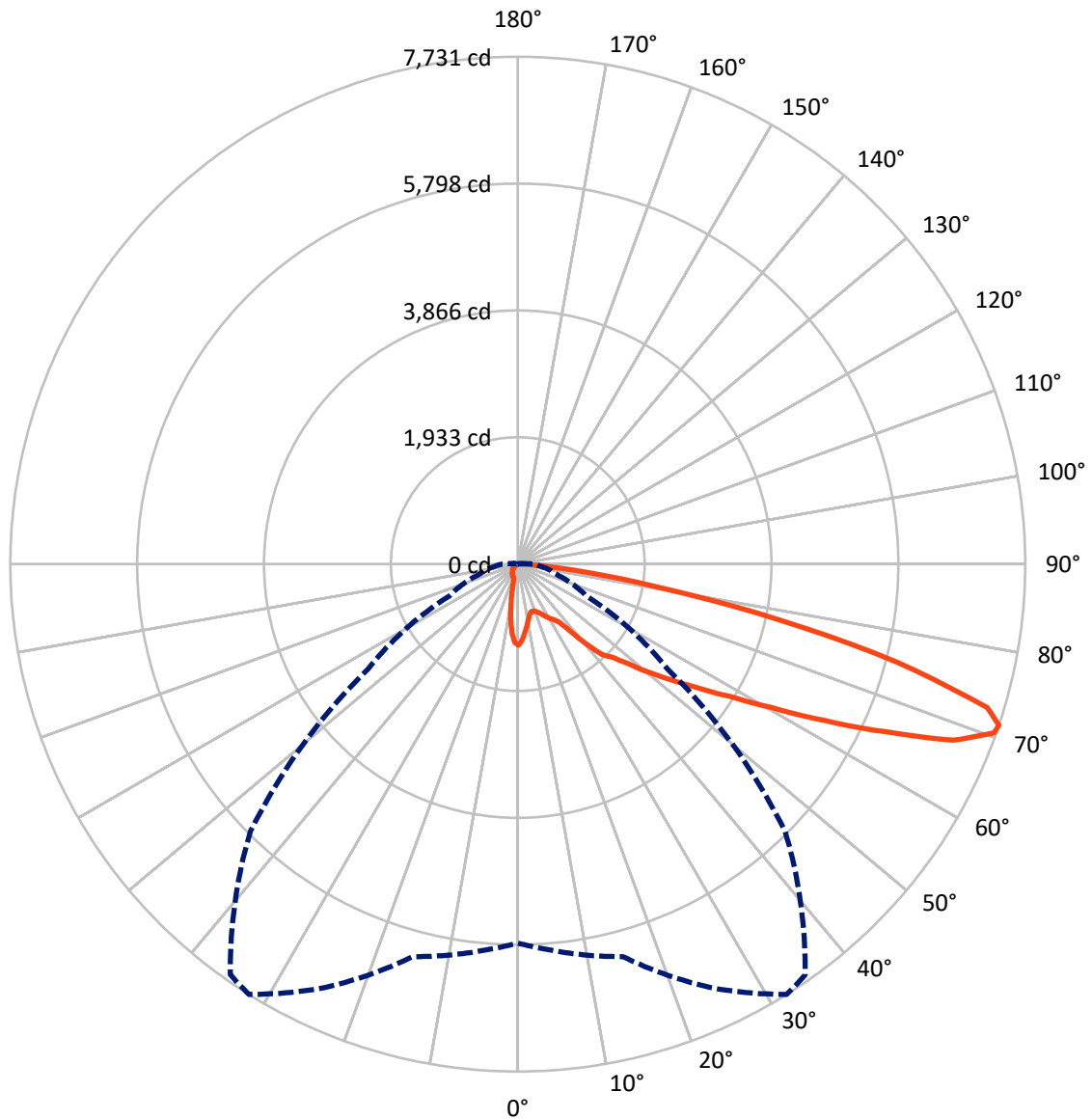
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	643.0	0.0	643.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7033.1	0.0	7033.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	7676.0	0.0	7676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.3
10°-20°	217.8	2.8
20°-30°	338.9	4.4
30°-40°	564.6	7.4
40°-50°	1050.3	13.7
50°-60°	1686.2	22.0
60°-70°	2268.1	29.5
70°-80°	1345.7	17.5
80°-90°	104.0	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°	7676.0	100.0
0°-180°	7676.0	100.0

Coefficient of Utilization



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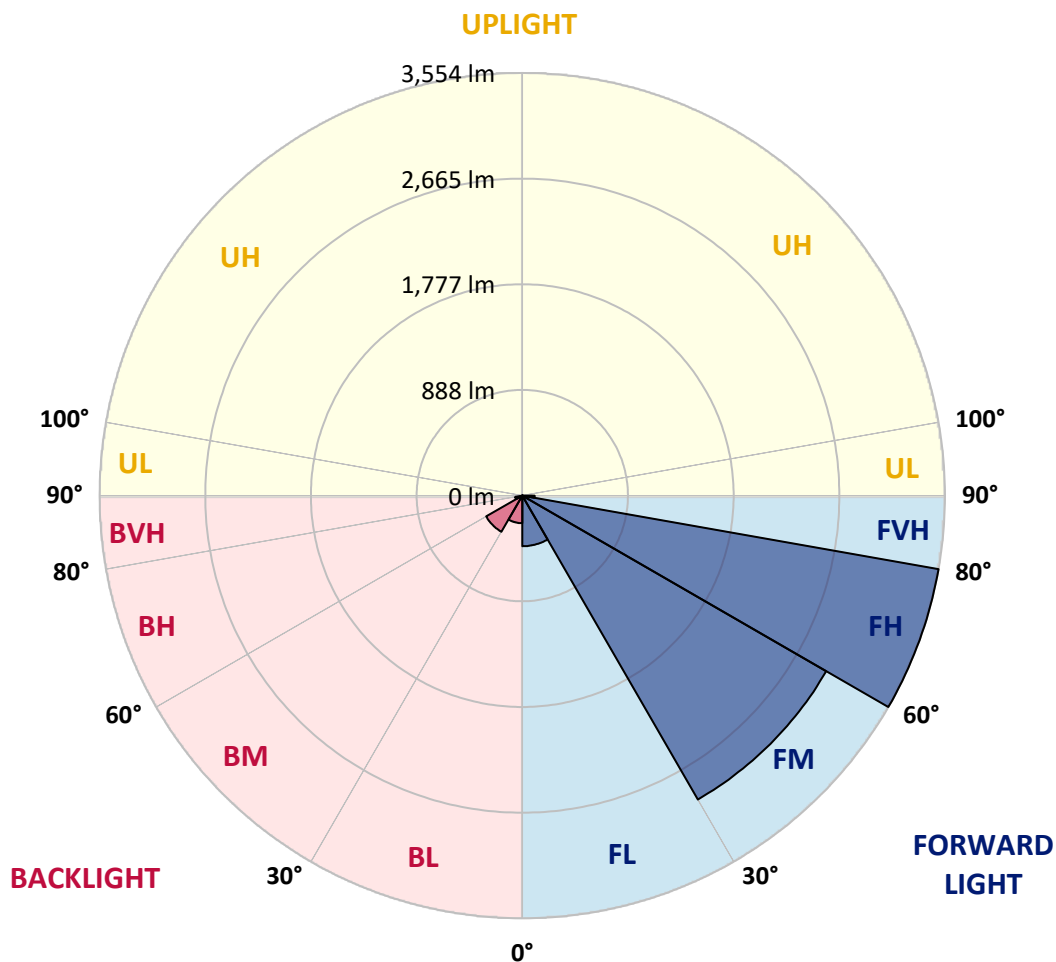
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.5	5.5			
FM	(30°-60°)	2950.4	38.4			
FH	(60°-80°)	3553.6	46.3			G2/5000
FVH	(80°-90°)	103.6	1.3			G2/225
BL	(0°-30°)	231.7	3.0	B1/500		
BM	(30°-60°)	350.7	4.6	B1/1000		
BH	(60°-80°)	60.1	0.8	B0/110		G0/110
BVH	(80°-90°)	0.4	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°	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4
2.5°	1144.9	1156.6	1154.9	1159.0	1169.0	1173.1	1184.3	1196.7	1213.8	1225.6	1233.2
5°	1025.2	1034.1	1035.3	1055.9	1065.9	1077.1	1110.1	1146.0	1186.1	1217.9	1239.1
7.5°	897.4	902.1	911.5	938.6	964.0	975.2	1025.2	1087.7	1150.8	1210.3	1248.6
10°	791.9	797.2	814.3	843.2	866.7	881.5	951.0	1029.4	1117.8	1206.1	1262.1
12.5°	731.8	734.8	741.2	767.2	797.2	813.1	888.0	977.5	1091.2	1207.9	1285.1
15°	727.7	726.5	718.9	729.5	756.6	773.1	846.1	942.2	1067.7	1213.8	1312.2
17.5°	749.5	746.5	728.3	728.3	750.7	764.2	828.4	923.3	1055.9	1227.4	1350.5
20°	783.1	778.4	748.3	746.0	767.8	781.9	839.1	924.5	1058.2	1252.7	1401.8
22.5°	825.5	820.2	774.8	776.0	799.6	813.7	869.7	945.7	1073.0	1283.9	1456.6
25°	880.9	875.0	821.4	819.0	843.8	856.1	915.1	983.4	1093.6	1322.8	1528.4
27.5°	954.5	942.2	877.9	874.4	900.9	916.8	969.9	1034.1	1130.1	1376.4	1625.1
30°	1015.2	1001.7	940.4	931.0	959.3	971.6	1026.4	1102.4	1202.0	1470.1	1758.8
32.5°	1094.8	1074.7	1002.9	978.1	1008.2	1024.1	1108.3	1229.7	1308.7	1569.1	1917.9
35°	1273.9	1261.5	1173.7	1087.1	1085.3	1105.4	1229.1	1358.2	1418.3	1723.5	2134.8
37.5°	1530.2	1521.4	1428.3	1312.2	1278.6	1269.2	1375.8	1499.6	1593.3	1935.6	2386.9
40°	1827.8	1807.1	1721.7	1623.3	1579.7	1552.0	1549.1	1709.9	1821.9	2223.7	2649.7
42.5°	2041.1	2003.4	1899.7	1892.6	1883.2	1854.3	1770.6	2017.5	2117.1	2533.7	2930.8
45°	2265.0	2207.8	2053.4	2026.9	2023.4	2021.6	2105.3	2381.6	2438.8	2869.5	3219.5
47.5°	2438.8	2393.4	2266.7	2255.0	2269.7	2309.8	2547.8	2768.2	2756.4	3168.8	3461.7
50°	2670.4	2636.2	2495.4	2517.7	2593.8	2659.2	3046.9	3189.5	3017.4	3404.5	3637.9
52.5°	2943.8	2880.7	2749.9	2810.6	2927.3	3036.3	3576.6	3558.3	3200.7	3581.9	3769.3
55°	3180.6	3135.8	3091.1	3154.1	3328.5	3464.6	4055.0	3834.7	3333.8	3724.5	3827.0
57.5°	3581.3	3570.7	3524.7	3589.0	3800.5	3941.9	4483.4	4049.1	3419.3	3798.7	3759.2
60°	4174.1	4157.0	4071.5	4153.4	4429.2	4651.3	4878.2	4241.8	3438.7	3769.8	3564.2
62.5°	4887.0	4828.7	4755.6	4876.4	5254.7	5352.5	5250.0	4356.1	3366.2	3540.0	3094.0
65°	5552.8	5492.7	5494.5	5749.0	6160.9	6227.5	5683.6	4339.0	3154.1	2964.4	2282.1
67.5°	6062.5	6052.5	6124.4	6621.1	7159.6	7113.7	6071.3	4083.3	2525.4	1921.5	1212.6
70°	6088.4	6107.9	6314.1	7152.6	7699.4	7626.3	6038.4	3319.1	1574.4	883.8	477.9
71°	5775.0	5905.8	6191.0	7136.1	7731.2	7636.3	5760.2	2780.0	1154.9	616.3	344.7
72.5°	4921.2	4990.1	5606.5	6716.0	7479.6	7276.9	5054.9	1948.6	739.5	377.1	198.0
75°	2710.4	2880.1	3754.5	5268.8	5982.4	5804.4	3294.3	925.7	368.9	206.2	81.9
77.5°	1290.4	1257.4	1831.9	3133.5	4056.2	4046.8	1659.8	411.3	215.1	139.6	41.2
80°	368.9	414.8	701.2	1489.6	2252.0	2276.8	637.5	198.6	149.1	109.0	21.2
82.5°	111.4	113.7	257.5	658.8	1120.1	1055.9	239.2	101.3	107.2	86.6	12.4
85°	19.4	24.2	76.0	232.2	427.2	324.1	60.1	48.3	70.7	57.2	7.1
87.5°	1.2	1.8	25.3	26.5	37.7	21.8	10.6	7.1	15.3	15.3	4.1
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°	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4
2.5°	1238.5	1242.1	1239.7	1234.4	1225.6	1215.0	1200.8	1189.1	1179.0	1173.7	1180.2
5°	1246.2	1250.9	1239.1	1212.6	1172.6	1128.9	1079.5	1041.2	1011.1	1001.7	998.1
7.5°	1258.0	1260.9	1229.1	1170.2	1085.3	982.2	892.1	816.1	757.2	739.5	713.5
10°	1273.3	1271.5	1211.4	1101.8	952.8	797.8	658.2	554.5	476.1	447.8	445.5
12.5°	1296.9	1287.5	1189.1	1008.7	794.9	592.2	419.5	328.2	278.7	262.2	258.7
15°	1326.3	1303.9	1153.7	899.7	608.7	382.4	258.7	231.0	224.5	223.3	222.1
17.5°	1361.1	1325.8	1107.1	766.0	427.8	248.1	216.2	215.7	216.2	215.1	214.5
20°	1408.2	1348.7	1051.8	607.5	282.8	209.2	206.2	206.2	206.8	206.2	206.2
22.5°	1458.3	1375.8	983.4	463.7	213.3	198.6	198.0	199.2	200.3	199.7	199.7
25°	1520.2	1411.2	893.3	317.6	190.9	189.7	190.3	192.7	195.0	195.6	195.0
27.5°	1609.8	1454.8	796.6	218.6	175.0	176.2	182.1	188.0	191.5	192.1	192.1
30°	1710.5	1503.1	670.5	177.4	162.0	162.0	169.1	180.3	188.0	189.1	189.7
32.5°	1840.1	1559.1	530.9	159.7	149.7	148.5	155.0	168.5	182.7	186.8	186.8
35°	2000.4	1625.1	394.8	148.5	140.8	137.9	141.4	152.6	170.9	182.7	183.8
37.5°	2188.4	1687.5	288.7	138.5	132.6	128.5	130.8	139.6	154.4	172.1	176.8
40°	2362.2	1742.9	215.7	130.2	124.3	121.4	123.1	127.3	139.6	156.1	159.1
42.5°	2551.9	1785.9	171.5	121.4	116.1	114.9	114.9	116.7	124.9	134.3	134.9
45°	2741.1	1801.3	143.8	110.8	107.2	108.4	107.8	106.6	110.2	109.0	109.0
47.5°	2876.0	1783.0	119.0	100.8	100.8	102.5	99.6	95.5	93.7	86.6	87.2
50°	2968.5	1716.4	97.8	89.0	93.7	96.0	90.2	83.7	77.2	69.5	67.8
52.5°	3006.8	1598.0	80.1	73.7	83.1	86.0	79.0	71.3	61.3	54.8	53.0
55°	2982.1	1451.8	66.6	60.1	70.1	73.7	66.6	57.7	46.5	39.5	38.3
57.5°	2873.0	1277.4	56.6	47.7	56.0	58.3	53.6	44.2	33.0	25.9	25.9
60°	2684.5	1097.1	46.0	37.7	41.8	45.4	40.7	31.8	22.4	15.9	14.7
62.5°	2302.1	890.9	37.1	29.5	29.5	32.4	28.3	23.0	14.1	8.2	7.7
65°	1662.2	611.0	29.5	21.8	21.2	21.2	17.7	15.3	8.2	3.5	2.4
67.5°	903.3	344.7	23.6	16.5	14.7	14.1	11.2	8.8	3.5	0.6	0.0
70°	355.3	132.6	18.3	11.2	9.4	8.8	5.9	4.1	2.4	0.0	0.0
71°	241.0	91.3	15.9	9.4	7.7	6.5	4.7	3.5	1.8	0.0	0.0
72.5°	137.9	56.6	12.4	7.1	5.9	4.7	3.5	2.4	1.8	0.0	0.0
75°	60.1	28.9	7.7	5.3	4.1	2.9	2.4	1.8	0.6	0.0	0.0
77.5°	30.6	15.9	5.3	4.1	2.4	1.8	1.2	0.6	0.0	0.0	0.0
80°	17.1	8.2	3.5	2.4	1.8	1.2	0.6	0.6	0.0	0.0	0.0
82.5°	9.4	4.7	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.2	0.0	0.0	0.0	0.0	0.6	0.6	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)