

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: P647854

Luminaire Tested: **GALN-SA3A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647854  
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-SA3A-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 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: 7696.9 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

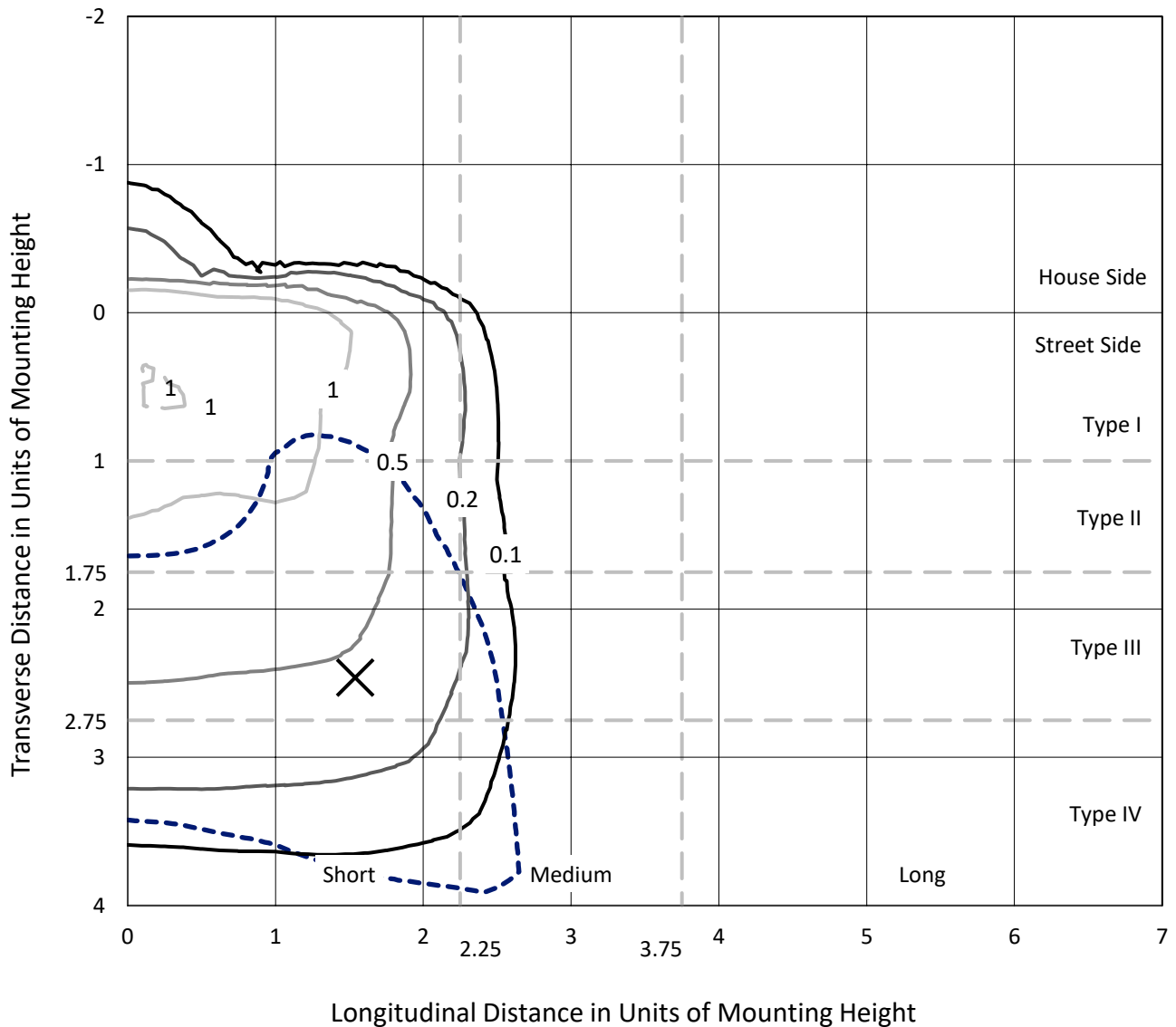
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

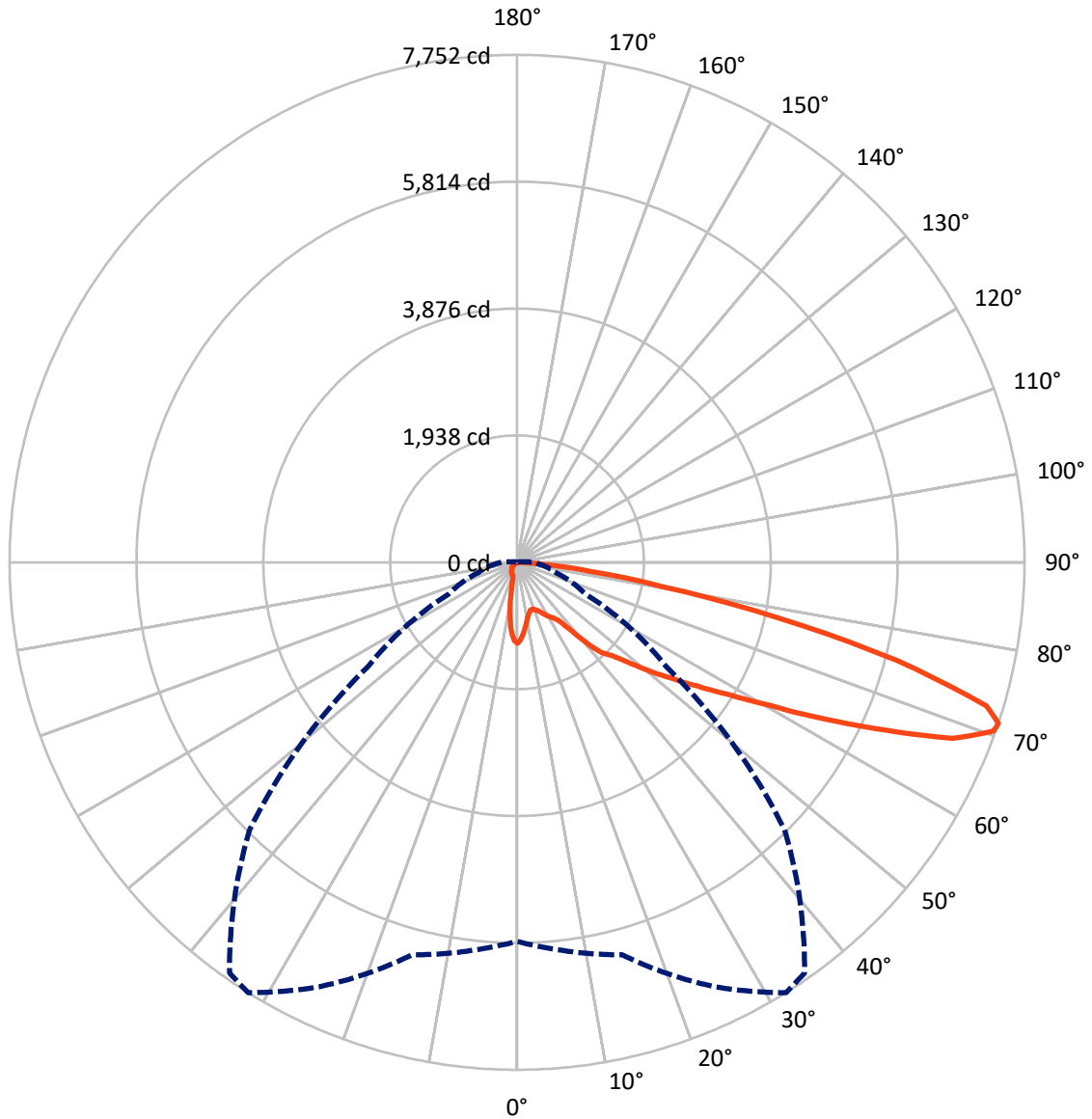
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	644.7	0.0	644.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	7052.2	0.0	7052.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	7696.9	0.0	7696.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	1.3
10°-20°	218.4	2.8
20°-30°	339.8	4.4
30°-40°	566.1	7.4
40°-50°	1053.1	13.7
50°-60°	1690.8	22.0
60°-70°	2274.2	29.5
70°-80°	1349.3	17.5
80°-90°	104.3	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°	7696.9	100.0
0°-180°	7696.9	100.0

**Coefficient of Utilization**



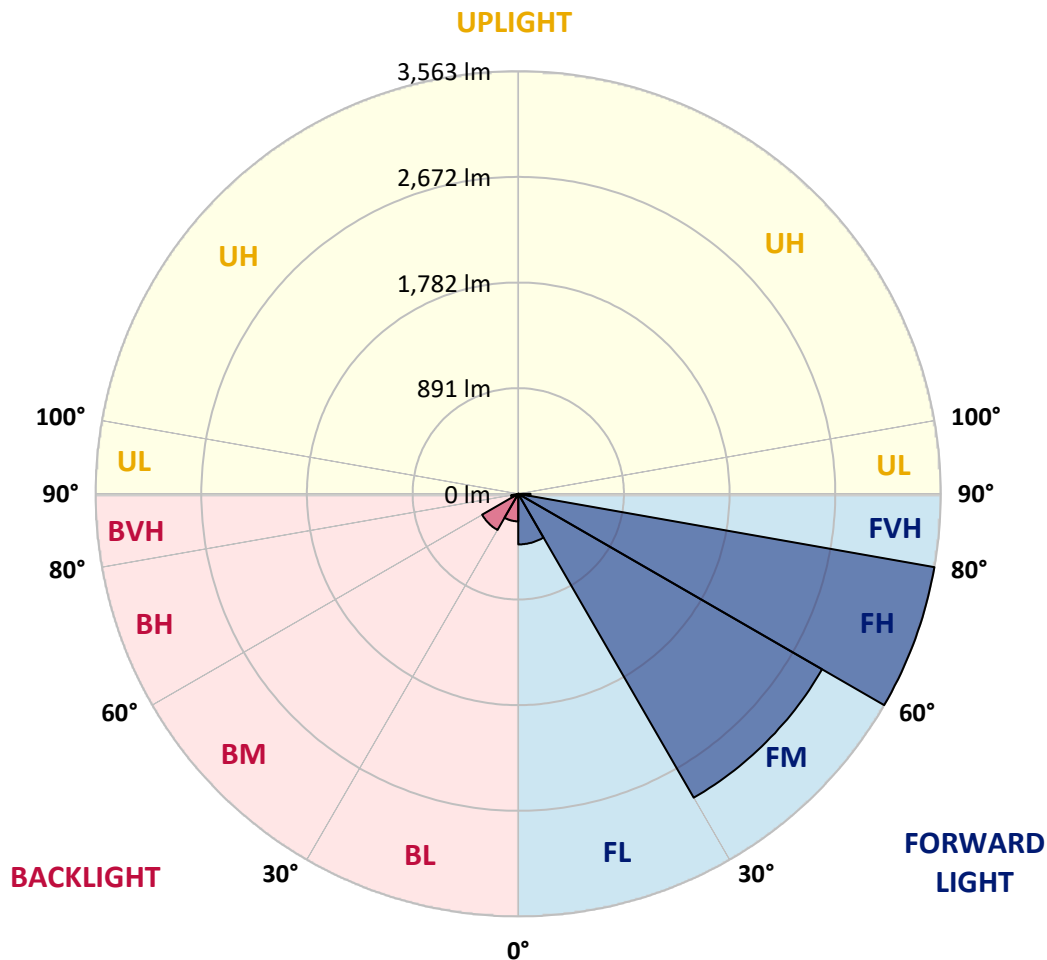
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.6	5.5			
FM (30°-60°)	2958.4	38.4			
FH (60°-80°)	3563.3	46.3			G2/5000
FVH (80°-90°)	103.9	1.3			G2/225
BL (0°-30°)	232.3	3.0	B1/500		
BM (30°-60°)	351.7	4.6	B1/1000		
BH (60°-80°)	60.3	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°	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8
2.5°	1148.0	1159.8	1158.1	1162.1	1172.2	1176.3	1187.6	1199.9	1217.1	1228.9	1236.6
5°	1028.0	1036.9	1038.1	1058.8	1068.8	1080.0	1113.1	1149.1	1189.3	1221.2	1242.5
7.5°	899.8	904.5	914.0	941.2	966.6	977.8	1028.0	1090.6	1153.9	1213.6	1251.9
10°	794.0	799.4	816.5	845.5	869.1	883.9	953.6	1032.2	1120.8	1209.4	1265.6
12.5°	733.8	736.7	743.2	769.2	799.4	815.3	890.3	980.2	1094.2	1211.2	1288.6
15°	729.7	728.5	720.8	731.5	758.6	775.2	848.5	944.8	1070.6	1217.1	1315.8
17.5°	751.5	748.5	730.2	730.2	752.7	766.3	830.7	925.8	1058.8	1230.7	1354.2
20°	785.2	780.5	750.3	748.0	769.8	784.0	841.3	927.0	1061.1	1256.1	1405.6
22.5°	827.7	822.5	777.0	778.1	801.7	816.0	872.0	948.3	1075.9	1287.4	1460.5
25°	883.3	877.4	823.6	821.2	846.0	858.5	917.5	986.1	1096.6	1326.4	1532.6
27.5°	957.1	944.8	880.3	876.8	903.3	919.3	972.5	1036.9	1133.2	1380.2	1629.5
30°	1018.0	1004.4	943.0	933.5	961.8	974.3	1029.3	1105.4	1205.3	1474.1	1763.6
32.5°	1097.8	1077.6	1005.6	980.8	1010.9	1026.8	1111.3	1233.1	1312.2	1573.4	1923.1
35°	1277.4	1264.9	1176.9	1090.1	1088.3	1108.4	1232.4	1361.9	1422.1	1728.2	2140.6
37.5°	1534.4	1525.5	1432.2	1315.8	1282.1	1272.6	1379.6	1503.7	1597.6	1940.9	2393.5
40°	1832.8	1812.1	1726.4	1627.7	1584.0	1556.2	1553.3	1714.6	1826.8	2229.7	2657.0
42.5°	2046.6	2008.8	1904.8	1897.8	1888.3	1859.3	1775.5	2023.0	2122.9	2540.5	2938.8
45°	2271.2	2213.9	2059.1	2032.4	2028.9	2027.1	2111.0	2388.2	2445.5	2877.3	3228.3
47.5°	2445.5	2400.0	2272.9	2261.1	2275.9	2316.0	2554.7	2775.7	2763.9	3177.5	3471.1
50°	2677.6	2643.3	2502.2	2524.6	2600.8	2666.4	3055.2	3198.2	3025.6	3413.8	3647.8
52.5°	2951.8	2888.6	2757.4	2818.3	2935.2	3044.5	3586.3	3568.0	3209.4	3591.6	3779.5
55°	3189.3	3144.4	3099.5	3162.7	3337.5	3474.1	4066.0	3845.1	3342.9	3734.6	3837.4
57.5°	3591.1	3580.4	3534.3	3598.7	3810.9	3952.7	4495.6	4060.2	3428.6	3809.1	3769.4
60°	4185.4	4168.3	4082.6	4164.7	4441.3	4664.0	4891.5	4253.3	3448.1	3780.1	3573.9
62.5°	4900.3	4841.8	4768.5	4889.7	5269.0	5367.1	5264.3	4368.0	3375.4	3549.7	3102.4
65°	5567.9	5507.7	5509.4	5764.7	6177.7	6244.4	5699.1	4350.8	3162.7	2972.4	2288.2
67.5°	6079.0	6069.0	6141.1	6639.1	7179.1	7133.1	6087.9	4094.4	2532.3	1926.6	1215.9
70°	6105.0	6124.5	6331.3	7172.0	7720.3	7647.1	6054.8	3328.1	1578.7	886.3	479.2
71°	5790.7	5921.8	6207.8	7155.5	7752.2	7657.1	5775.9	2787.5	1158.1	618.0	345.6
72.5°	4934.5	5003.7	5621.7	6734.3	7500.0	7296.7	5068.7	1953.9	741.5	378.1	198.5
75°	2717.8	2887.9	3764.7	5283.1	5998.6	5820.2	3303.3	928.2	369.9	206.8	82.1
77.5°	1293.9	1260.8	1836.8	3142.0	4067.2	4057.8	1664.3	412.4	215.6	140.0	41.3
80°	369.9	415.9	703.1	1493.6	2258.2	2282.9	639.2	199.1	149.5	109.3	21.3
82.5°	111.7	114.0	258.2	660.5	1123.1	1058.8	239.9	101.6	107.5	86.8	12.4
85°	19.5	24.2	76.2	232.8	428.4	324.9	60.3	48.5	70.9	57.3	7.1
87.5°	1.2	1.8	25.4	26.6	37.8	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°	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8	1237.8
2.5°	1241.9	1245.4	1243.1	1237.8	1228.9	1218.3	1204.1	1192.3	1182.3	1176.9	1183.4
5°	1249.6	1254.3	1242.5	1215.9	1175.8	1132.1	1082.4	1044.0	1013.8	1004.4	1000.8
7.5°	1261.4	1264.4	1232.4	1173.4	1088.3	984.9	894.5	818.3	759.2	741.5	715.5
10°	1276.8	1275.0	1214.7	1104.8	955.3	800.0	660.0	555.9	477.4	449.1	446.7
12.5°	1300.4	1290.9	1192.3	1011.5	797.0	593.7	420.7	329.1	279.5	262.9	259.4
15°	1329.9	1307.5	1156.8	902.2	610.3	383.4	259.4	231.6	225.1	223.9	222.8
17.5°	1364.8	1329.4	1110.1	768.0	428.9	248.8	216.8	216.3	216.8	215.6	215.1
20°	1412.1	1352.4	1054.6	609.2	283.6	209.8	206.8	206.8	207.4	206.8	206.8
22.5°	1462.3	1379.6	986.1	464.9	213.9	199.1	198.5	199.7	200.9	200.3	200.3
25°	1524.3	1415.0	895.7	318.4	191.4	190.3	190.8	193.2	195.6	196.1	195.6
27.5°	1614.2	1458.7	798.8	219.2	175.5	176.6	182.6	188.5	192.0	192.6	192.6
30°	1715.2	1507.2	672.4	177.8	162.5	162.5	169.6	180.8	188.5	189.6	190.3
32.5°	1845.1	1563.3	532.4	160.1	150.1	148.9	155.4	169.0	183.1	187.3	187.3
35°	2005.9	1629.5	395.9	148.9	141.2	138.3	141.8	153.0	171.3	183.1	184.3
37.5°	2194.4	1692.1	289.5	138.8	133.0	128.8	131.2	140.0	154.8	172.5	177.3
40°	2368.7	1747.7	216.3	130.6	124.7	121.7	123.5	127.6	140.0	156.6	159.5
42.5°	2558.8	1790.8	171.9	121.7	116.4	115.2	115.2	117.0	125.3	134.7	135.3
45°	2748.5	1806.1	144.2	111.1	107.5	108.7	108.1	107.0	110.5	109.3	109.3
47.5°	2883.8	1787.8	119.3	101.0	101.0	102.8	99.8	95.7	94.0	86.8	87.5
50°	2976.6	1721.1	98.1	89.2	94.0	96.3	90.4	83.9	77.4	69.7	68.0
52.5°	3015.0	1602.3	80.3	73.8	83.3	86.3	79.2	71.5	61.5	55.0	53.2
55°	2990.2	1455.8	66.8	60.3	70.3	73.8	66.8	57.9	46.7	39.6	38.4
57.5°	2880.9	1280.9	56.7	47.8	56.1	58.5	53.8	44.3	33.1	26.0	26.0
60°	2691.8	1100.1	46.1	37.8	42.0	45.5	40.8	31.9	22.5	16.0	14.8
62.5°	2308.4	893.3	37.2	29.5	29.5	32.5	28.3	23.0	14.2	8.3	7.7
65°	1666.7	612.7	29.5	21.8	21.3	21.3	17.7	15.3	8.3	3.5	2.3
67.5°	905.8	345.6	23.6	16.5	14.8	14.2	11.2	8.8	3.5	0.6	0.0
70°	356.3	133.0	18.3	11.2	9.5	8.8	5.9	4.1	2.3	0.0	0.0
71°	241.6	91.6	16.0	9.5	7.7	6.5	4.7	3.5	1.8	0.0	0.0
72.5°	138.3	56.7	12.4	7.1	5.9	4.7	3.5	2.3	1.8	0.0	0.0
75°	60.3	29.0	7.7	5.3	4.1	3.0	2.3	1.8	0.6	0.0	0.0
77.5°	30.7	16.0	5.3	4.1	2.3	1.8	1.2	0.6	0.0	0.0	0.0
80°	17.1	8.3	3.5	2.3	1.8	1.2	0.6	0.6	0.0	0.0	0.0
82.5°	9.5	4.7	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	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)