

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: P458770

Luminaire Tested: **GALN-SA3A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458770
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-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 9158 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

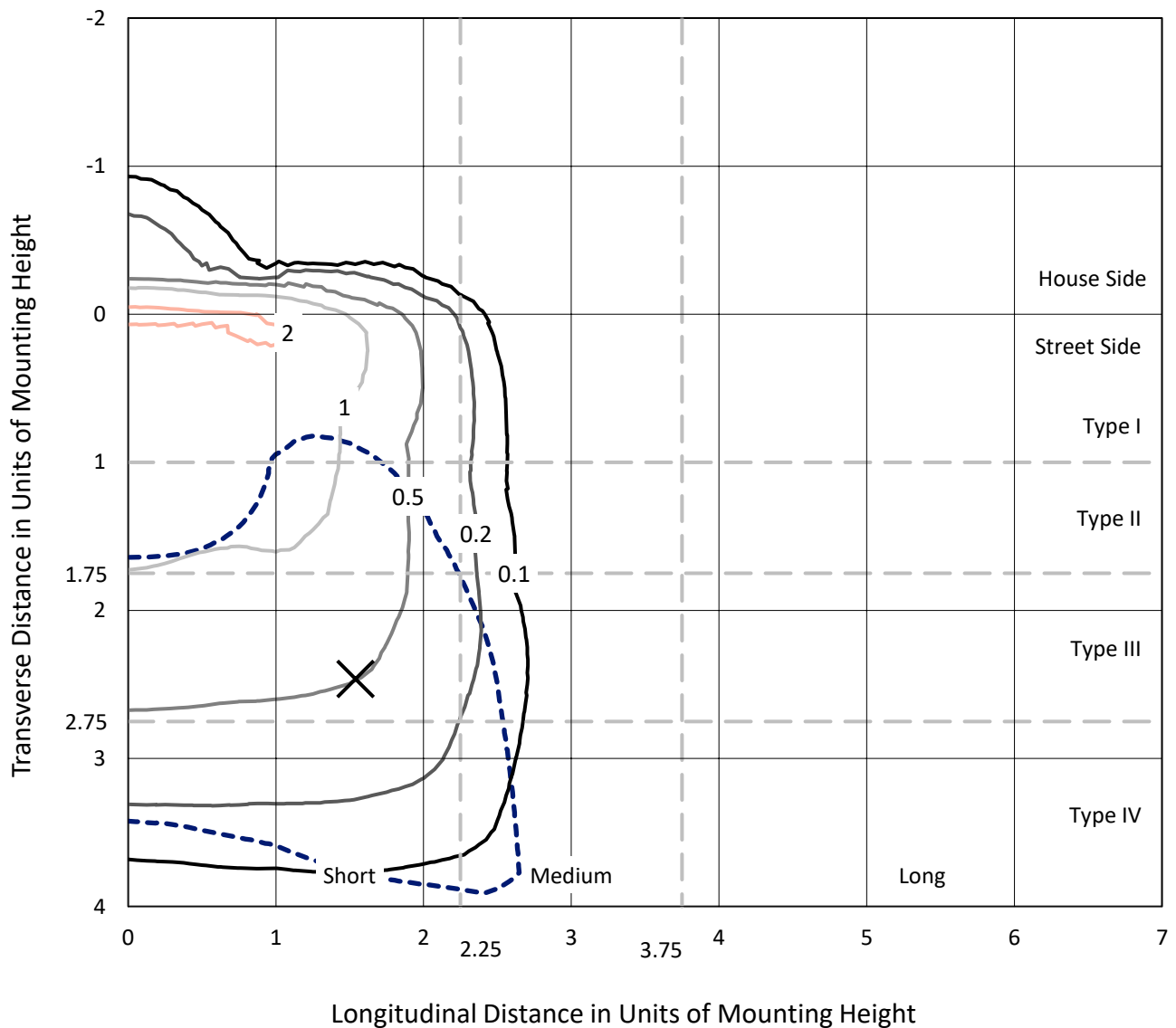
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

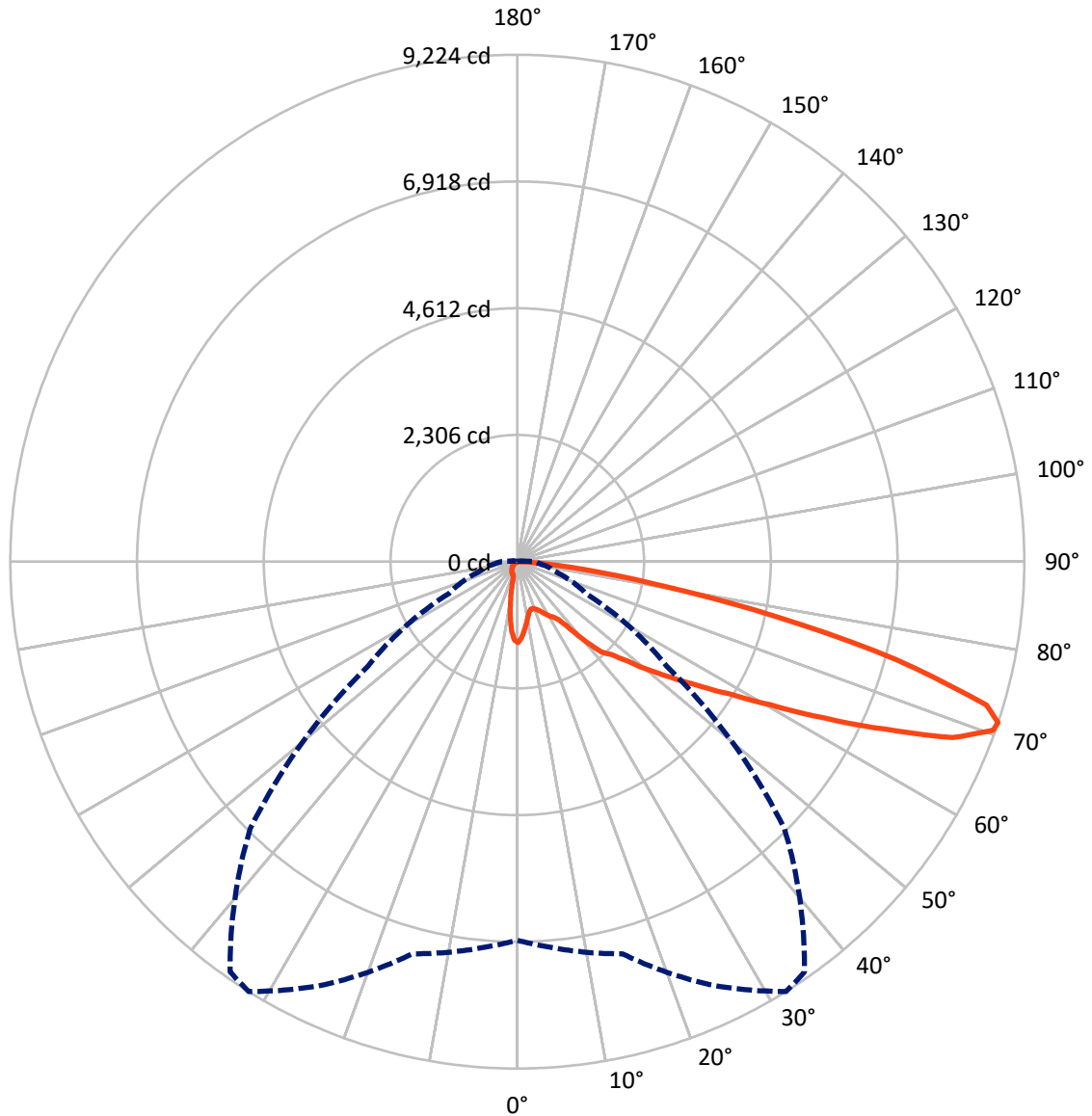
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	767.1	0.0	767.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8390.9	0.0	8390.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	9158.0	0.0	9158.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	1.3
10°-20°	259.9	2.8
20°-30°	404.3	4.4
30°-40°	673.6	7.4
40°-50°	1253.0	13.7
50°-60°	2011.8	22.0
60°-70°	2706.0	29.5
70°-80°	1605.5	17.5
80°-90°	124.1	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°	9158.0	100.0
0°-180°	9158.0	100.0



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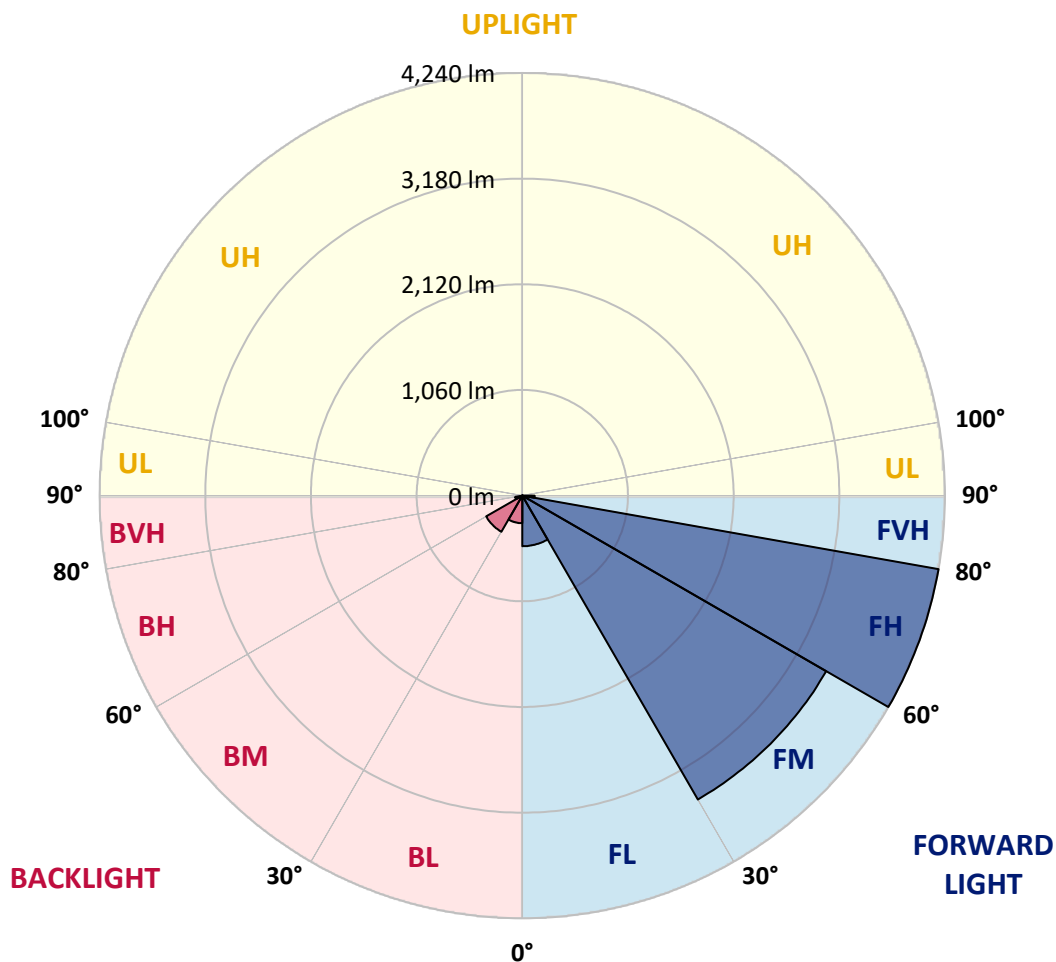
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.6	5.5			
FM (30°-60°)	3520.0	38.4			
FH (60°-80°)	4239.7	46.3			G2/5000
FVH (80°-90°)	123.6	1.3			G2/225
BL (0°-30°)	276.4	3.0	B1/500		
BM (30°-60°)	418.5	4.6	B1/1000		
BH (60°-80°)	71.7	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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°	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7
2.5°	1365.9	1380.0	1377.8	1382.8	1394.7	1399.6	1413.0	1427.8	1448.1	1462.2	1471.3
5°	1223.2	1233.7	1235.1	1259.7	1271.7	1285.1	1324.4	1367.3	1415.1	1453.1	1478.4
7.5°	1070.6	1076.3	1087.5	1119.9	1150.1	1163.4	1223.2	1297.7	1372.9	1443.9	1489.6
10°	944.8	951.1	971.5	1006.0	1034.1	1051.7	1134.6	1228.1	1333.6	1439.0	1505.8
12.5°	873.1	876.6	884.4	915.3	951.1	970.1	1059.4	1166.2	1301.9	1441.1	1533.2
15°	868.2	866.8	857.6	870.3	902.6	922.3	1009.5	1124.1	1273.8	1448.1	1565.5
17.5°	894.2	890.7	868.9	868.9	895.6	911.8	988.4	1101.6	1259.7	1464.3	1611.2
20°	934.3	928.6	892.8	890.0	916.0	932.9	1001.0	1103.0	1262.6	1494.5	1672.4
22.5°	984.9	978.6	924.4	925.8	953.9	970.8	1037.6	1128.3	1280.1	1531.8	1737.8
25°	1051.0	1043.9	980.0	977.1	1006.7	1021.4	1091.7	1173.3	1304.7	1578.2	1823.5
27.5°	1138.8	1124.1	1047.4	1043.2	1074.9	1093.8	1157.1	1233.7	1348.3	1642.2	1938.8
30°	1211.2	1195.1	1122.0	1110.7	1144.5	1159.2	1224.6	1315.3	1434.1	1753.9	2098.4
32.5°	1306.1	1282.2	1196.5	1167.0	1202.8	1221.8	1322.3	1467.1	1561.3	1872.0	2288.2
35°	1519.8	1505.1	1400.3	1297.0	1294.9	1318.8	1466.4	1620.4	1692.1	2056.2	2546.9
37.5°	1825.6	1815.1	1704.0	1565.5	1525.5	1514.2	1641.5	1789.1	1900.9	2309.3	2847.8
40°	2180.7	2156.0	2054.1	1936.7	1884.7	1851.7	1848.1	2040.1	2173.6	2653.1	3161.3
42.5°	2435.1	2390.1	2266.4	2258.0	2246.7	2212.3	2112.5	2407.0	2525.8	3022.8	3496.6
45°	2702.3	2634.1	2449.9	2418.3	2414.0	2411.9	2511.8	2841.5	2909.6	3423.5	3841.1
47.5°	2909.6	2855.5	2704.4	2690.3	2707.9	2755.7	3039.7	3302.6	3288.6	3780.6	4130.0
50°	3185.9	3145.1	2977.1	3003.8	3094.5	3172.6	3635.1	3805.2	3600.0	4061.8	4340.2
52.5°	3512.1	3436.9	3280.8	3353.2	3492.4	3622.5	4267.1	4245.3	3818.6	4273.4	4497.0
55°	3794.7	3741.3	3687.8	3763.1	3971.2	4133.5	4837.9	4575.0	3977.5	4443.6	4565.9
57.5°	4272.7	4260.1	4205.2	4281.9	4534.2	4703.0	5349.0	4830.9	4079.4	4532.1	4485.0
60°	4979.9	4959.5	4857.6	4955.3	5284.3	5549.3	5820.0	5060.8	4102.6	4497.7	4252.3
62.5°	5830.5	5760.9	5673.8	5817.9	6269.2	6385.9	6263.6	5197.2	4016.1	4223.5	3691.4
65°	6624.9	6553.2	6555.3	6859.0	7350.4	7429.8	6781.0	5176.8	3763.1	3536.7	2722.7
67.5°	7233.0	7221.0	7306.8	7899.4	8541.9	8487.1	7243.5	4871.7	3013.0	2292.4	1446.7
70°	7263.9	7287.1	7533.2	8533.5	9185.9	9098.7	7204.2	3959.9	1878.4	1054.5	570.1
71°	6889.9	7046.0	7386.2	8513.8	9223.8	9110.7	6872.4	3316.7	1377.8	735.3	411.2
72.5°	5871.3	5953.6	6688.9	8012.6	8923.7	8681.8	6030.9	2324.8	882.2	449.9	236.2
75°	3233.7	3436.2	4479.4	6286.1	7137.4	6925.1	3930.4	1104.4	440.1	246.0	97.7
77.5°	1539.5	1500.2	2185.6	3738.5	4839.3	4828.1	1980.3	490.7	256.6	166.6	49.2
80°	440.1	494.9	836.5	1777.1	2686.8	2716.3	760.6	236.9	177.9	130.1	25.3
82.5°	132.9	135.7	307.2	785.9	1336.4	1259.7	285.4	120.9	127.9	103.3	14.8
85°	23.2	28.8	90.7	277.0	509.7	386.6	71.7	57.6	84.4	68.2	8.4
87.5°	1.4	2.1	30.2	31.6	45.0	26.0	12.7	8.4	18.3	18.3	4.9
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°	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7	1472.7
2.5°	1477.7	1481.9	1479.1	1472.7	1462.2	1449.6	1432.7	1418.6	1406.7	1400.3	1408.1
5°	1486.8	1492.4	1478.4	1446.7	1398.9	1346.9	1287.9	1242.2	1206.3	1195.1	1190.9
7.5°	1500.9	1504.4	1466.4	1396.1	1294.9	1171.9	1064.3	973.6	903.3	882.2	851.3
10°	1519.1	1517.0	1445.3	1314.6	1136.7	951.8	785.2	661.5	568.0	534.3	531.5
12.5°	1547.3	1536.0	1418.6	1203.5	948.3	706.5	500.5	391.6	332.5	312.8	308.6
15°	1582.4	1555.7	1376.4	1073.5	726.2	456.2	308.6	275.6	267.8	266.4	265.0
17.5°	1623.9	1581.7	1320.9	913.9	510.4	296.0	258.0	257.3	258.0	256.6	255.9
20°	1680.1	1609.1	1254.8	724.8	337.4	249.6	246.0	246.0	246.7	246.0	246.0
22.5°	1739.9	1641.5	1173.3	553.2	254.5	236.9	236.2	237.6	239.0	238.3	238.3
25°	1813.7	1683.6	1065.7	378.9	227.8	226.4	227.1	229.9	232.7	233.4	232.7
27.5°	1920.5	1735.7	950.4	260.8	208.8	210.2	217.2	224.3	228.5	229.2	229.2
30°	2040.8	1793.3	800.0	211.6	193.3	193.3	201.8	215.1	224.3	225.7	226.4
32.5°	2195.4	1860.1	633.4	190.5	178.6	177.2	184.9	201.1	217.9	222.8	222.8
35°	2386.6	1938.8	471.0	177.2	168.0	164.5	168.7	182.1	203.9	217.9	219.3
37.5°	2610.9	2013.3	344.5	165.2	158.2	153.3	156.1	166.6	184.2	205.3	210.9
40°	2818.3	2079.4	257.3	155.4	148.3	144.8	146.9	151.8	166.6	186.3	189.8
42.5°	3044.6	2130.7	204.6	144.8	138.5	137.1	137.1	139.2	149.0	160.3	161.0
45°	3270.3	2149.0	171.5	132.2	127.9	129.3	128.6	127.2	131.5	130.1	130.1
47.5°	3431.3	2127.2	142.0	120.2	120.2	122.3	118.8	113.9	111.8	103.3	104.0
50°	3541.6	2047.8	116.7	106.2	111.8	114.6	107.6	99.8	92.1	83.0	80.8
52.5°	3587.3	1906.5	95.6	87.9	99.1	102.6	94.2	85.1	73.1	65.4	63.3
55°	3557.8	1732.2	79.4	71.7	83.7	87.9	79.4	68.9	55.5	47.1	45.7
57.5°	3427.7	1524.1	67.5	56.9	66.8	69.6	64.0	52.7	39.4	30.9	30.9
60°	3202.8	1309.0	54.8	45.0	49.9	54.1	48.5	38.0	26.7	19.0	17.6
62.5°	2746.6	1062.9	44.3	35.1	35.1	38.7	33.7	27.4	16.9	9.8	9.1
65°	1983.1	729.0	35.1	26.0	25.3	25.3	21.1	18.3	9.8	4.2	2.8
67.5°	1077.7	411.2	28.1	19.7	17.6	16.9	13.4	10.5	4.2	0.7	0.0
70°	423.9	158.2	21.8	13.4	11.2	10.5	7.0	4.9	2.8	0.0	0.0
71°	287.5	109.0	19.0	11.2	9.1	7.7	5.6	4.2	2.1	0.0	0.0
72.5°	164.5	67.5	14.8	8.4	7.0	5.6	4.2	2.8	2.1	0.0	0.0
75°	71.7	34.4	9.1	6.3	4.9	3.5	2.8	2.1	0.7	0.0	0.0
77.5°	36.6	19.0	6.3	4.9	2.8	2.1	1.4	0.7	0.0	0.0	0.0
80°	20.4	9.8	4.2	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
82.5°	11.2	5.6	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.4	0.0	0.0	0.0	0.0	0.7	0.7	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)