

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: P526459

Luminaire Tested: **GALN-SA1B-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3413 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 44
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



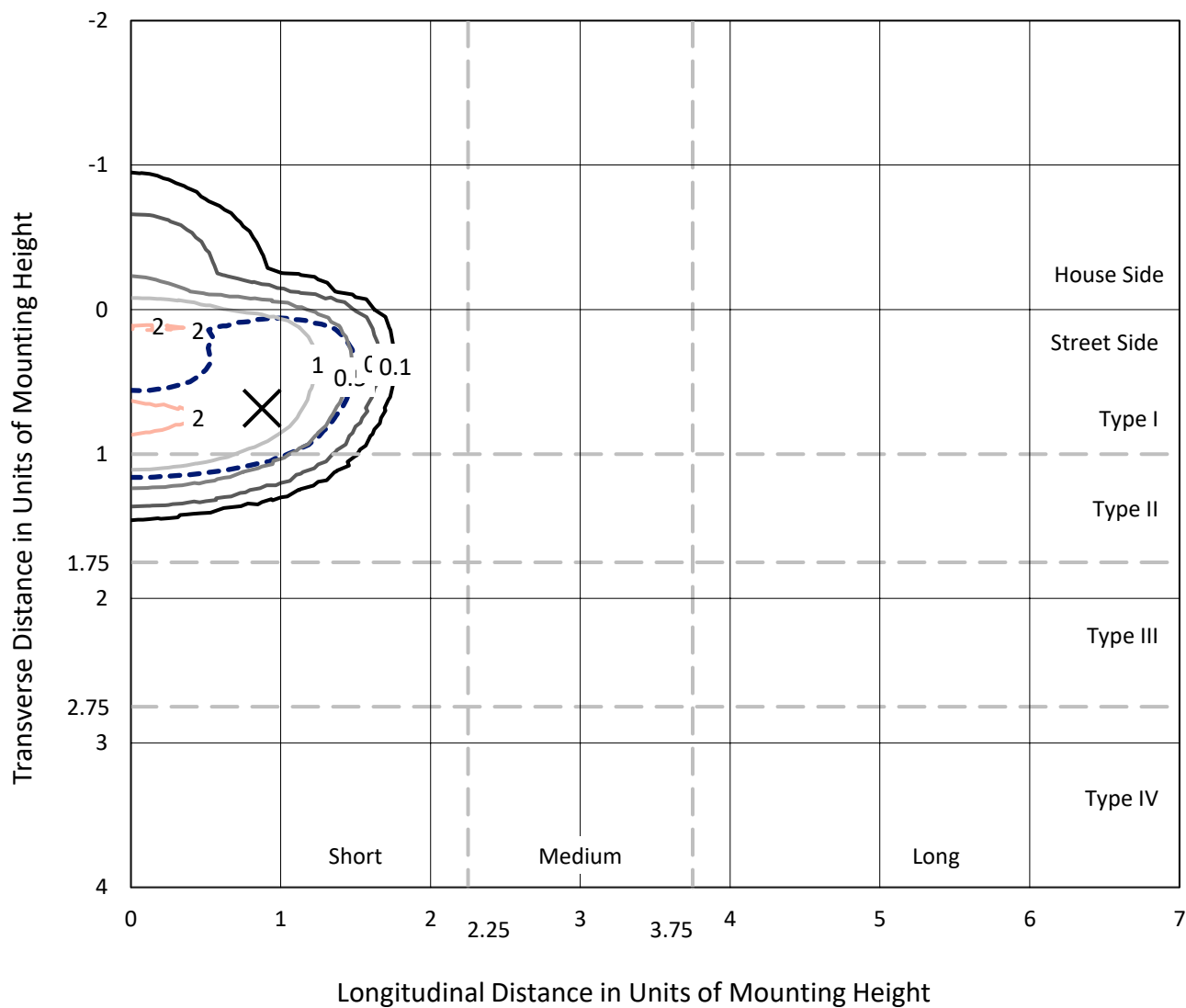
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

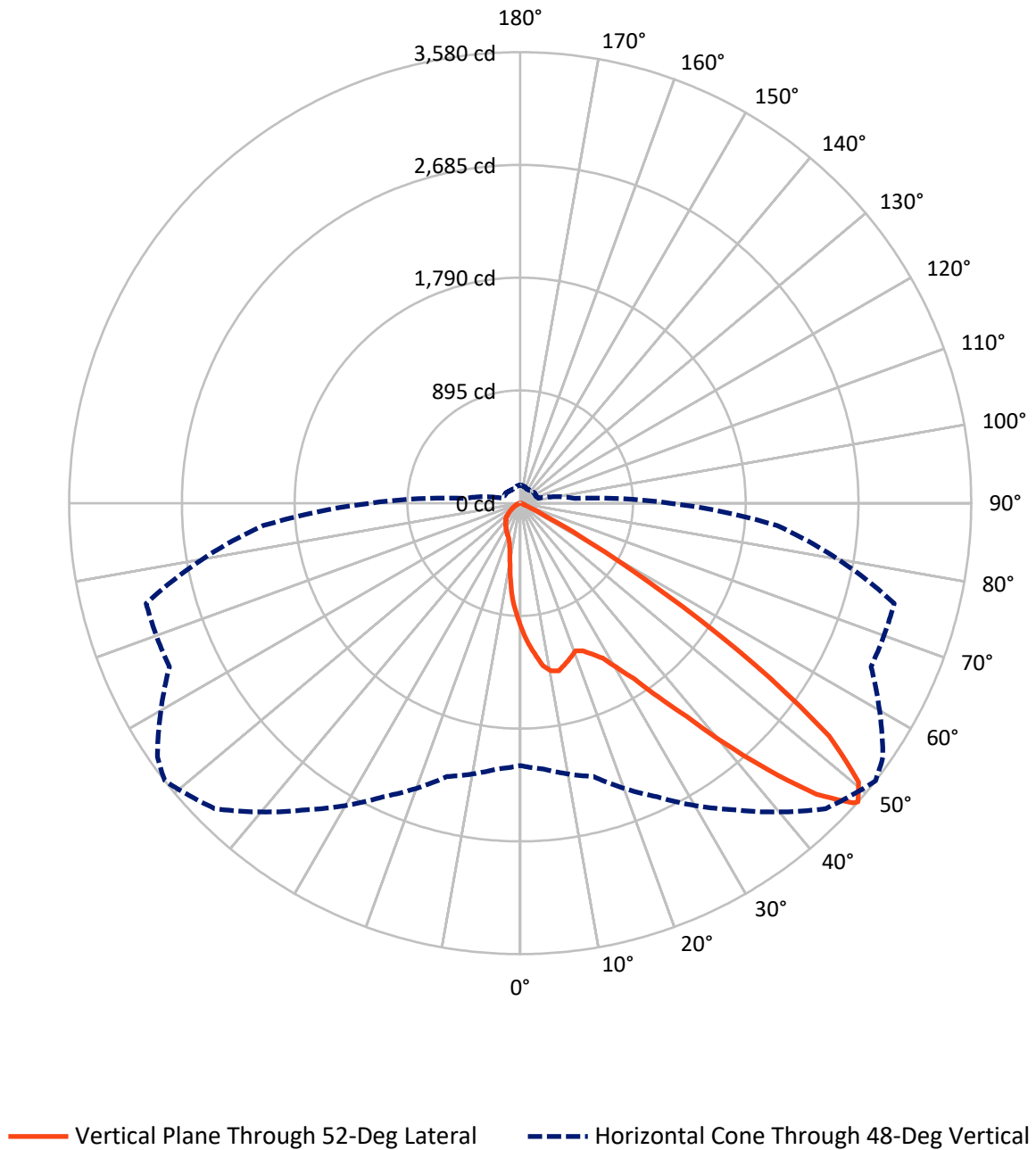


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	415.6	0.0	415.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2997.4	0.0	2997.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	3413.0	0.0	3413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	2.6
10°-20°	235.8	6.9
20°-30°	402.5	11.8
30°-40°	741.3	21.7
40°-50°	1151.2	33.7
50°-60°	692.8	20.3
60°-70°	80.1	2.3
70°-80°	15.5	0.5
80°-90°	3.6	0.1
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°	3413.0	100.0
0°-180°	3413.0	100.0

Coefficient of Utilization



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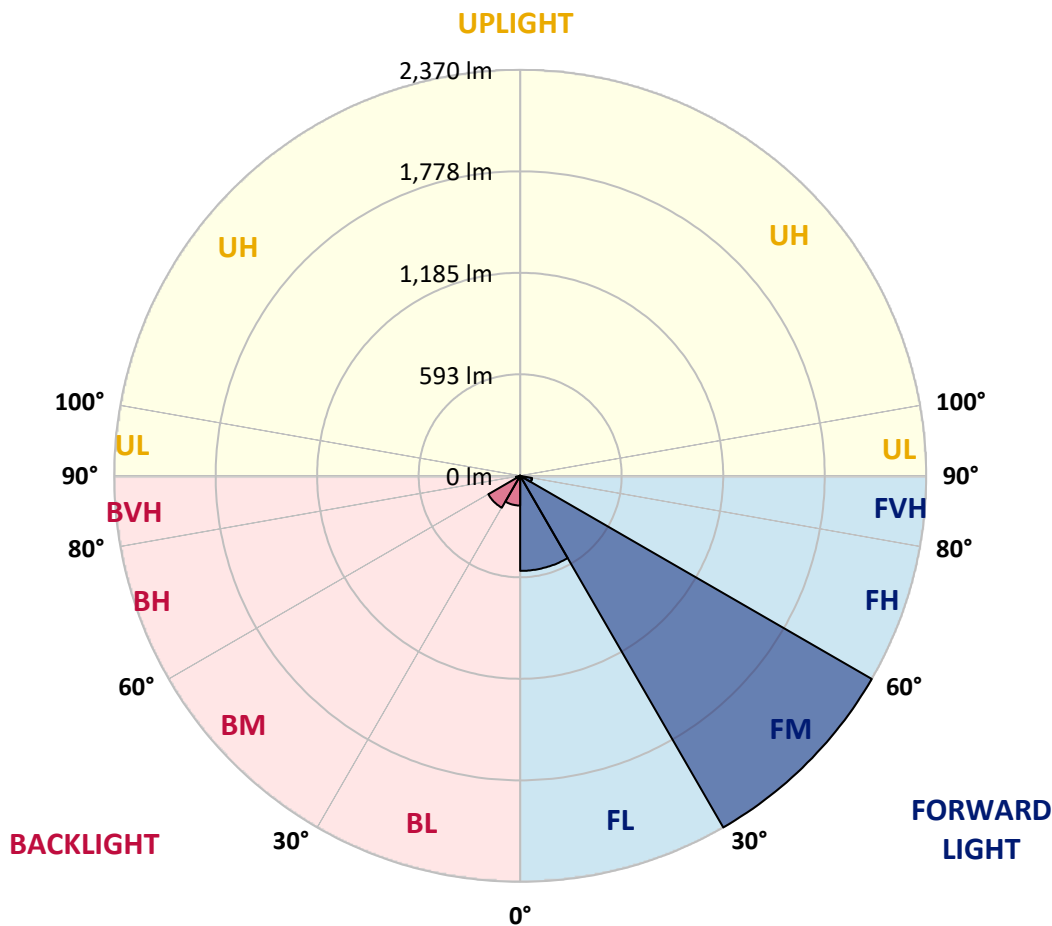
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.9	16.3			
FM	(30°-60°)	2370.3	69.4			
FH	(60°-80°)	70.6	2.1			G0/660
FVH	(80°-90°)	1.7	0.1			G0/10
BL	(0°-30°)	173.6	5.1	B1/500		
BM	(30°-60°)	215.0	6.3	B0/220		
BH	(60°-80°)	25.1	0.7	B0/110		G0/110
BVH	(80°-90°)	1.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	985.6	985.6	985.6	985.6	985.6	985.6	985.6	985.6	985.6	985.6	985.6
2.5°	1194.6	1167.2	1169.7	1151.8	1141.3	1124.4	1101.5	1097.1	1072.2	1038.4	1004.0
5°	1302.1	1295.6	1304.0	1278.2	1279.2	1251.3	1197.6	1198.6	1141.3	1086.1	1032.9
7.5°	1309.0	1294.1	1302.5	1325.4	1338.9	1333.9	1303.5	1277.2	1222.9	1141.8	1064.2
10°	1172.2	1200.6	1209.5	1247.3	1301.1	1357.8	1354.3	1355.8	1310.5	1204.5	1091.1
12.5°	1090.1	1071.2	1101.5	1124.4	1205.5	1315.5	1365.7	1376.7	1380.2	1265.2	1118.0
15°	1052.8	1052.8	1057.8	1064.2	1122.9	1224.4	1326.9	1358.8	1433.9	1344.8	1160.3
17.5°	1076.2	1075.2	1082.1	1068.7	1090.6	1168.7	1291.1	1327.4	1494.1	1423.0	1193.6
20°	1147.3	1150.8	1146.3	1107.5	1109.0	1167.7	1251.3	1308.5	1534.9	1490.6	1237.9
22.5°	1246.3	1248.3	1222.9	1180.7	1168.2	1197.1	1274.2	1318.0	1567.7	1571.7	1251.3
25°	1360.8	1352.8	1347.8	1288.1	1250.3	1275.2	1325.9	1351.3	1588.1	1641.4	1289.6
27.5°	1519.5	1503.6	1473.2	1420.0	1392.1	1356.8	1393.1	1434.9	1646.3	1738.9	1331.4
30°	1753.8	1739.9	1680.7	1612.0	1538.9	1504.0	1515.5	1538.4	1751.3	1851.8	1386.6
32.5°	2106.6	2077.2	1991.6	1860.8	1761.3	1665.3	1662.3	1686.6	1845.4	2008.1	1452.3
35°	2495.1	2486.2	2360.3	2225.5	2032.9	1884.7	1887.2	1900.1	2025.5	2213.0	1538.4
37.5°	2753.4	2802.6	2722.5	2577.7	2416.0	2204.1	2150.3	2154.8	2272.7	2455.8	1693.6
40°	2952.9	2911.1	2920.5	2886.7	2776.2	2632.0	2513.1	2489.7	2558.8	2724.5	1847.8
42.5°	2865.8	2867.8	2926.0	3006.1	3033.5	3023.0	2901.6	2857.3	2803.6	2944.4	1994.6
45°	2620.0	2671.3	2746.9	2958.8	3144.9	3319.6	3295.7	3222.0	2972.8	3118.6	2079.2
47.5°	2228.0	2226.0	2349.9	2625.5	3038.9	3447.9	3556.4	3504.6	3092.7	3099.1	2061.8
48°	2083.2	2119.0	2246.9	2571.3	2971.8	3429.0	3579.8	3514.6	3072.3	3073.3	2046.9
50°	1539.9	1533.4	1692.6	2090.6	2654.4	3222.0	3481.3	3532.0	3071.8	2942.4	1942.4
52.5°	813.5	841.3	957.3	1314.5	1876.7	2636.9	3070.8	3149.9	2963.3	2728.5	1792.1
55°	345.8	312.5	401.5	593.6	1055.8	1761.8	2252.8	2429.0	2505.6	2414.5	1567.7
57.5°	123.4	134.8	155.2	223.4	443.8	964.2	1343.3	1480.2	1735.9	1771.7	1068.2
60°	79.1	80.6	87.1	102.5	166.7	371.7	637.3	746.3	862.2	890.1	498.5
62.5°	61.2	61.7	64.7	67.2	79.1	144.3	239.3	283.6	294.5	253.2	130.9
65°	51.2	51.7	52.7	52.7	56.2	67.7	83.6	92.0	89.6	88.6	74.1
67.5°	39.3	40.3	42.3	42.3	44.3	41.3	46.3	49.3	55.7	67.7	63.2
70°	30.8	31.3	32.8	33.8	33.8	29.9	33.3	36.3	40.8	50.3	49.8
72.5°	23.9	24.9	25.9	25.9	24.4	20.4	23.9	26.4	29.4	34.8	33.8
75°	18.4	18.4	18.9	15.4	11.9	10.4	14.4	17.4	21.9	22.9	18.9
77.5°	5.0	5.5	5.0	4.5	5.0	7.5	9.5	10.9	13.9	13.9	12.4
80°	0.0	0.5	1.5	3.0	5.0	7.0	8.5	9.5	10.9	11.9	11.4
82.5°	0.0	0.5	1.5	3.0	4.5	5.5	7.5	8.0	9.0	10.4	10.4
85°	0.0	0.5	1.0	2.0	3.0	3.5	3.5	3.0	3.0	2.5	2.0
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5
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°	985.6	985.6	985.6	985.6	985.6	985.6	985.6	985.6	985.6	985.6	985.6
2.5°	990.6	975.2	951.8	915.0	879.6	856.8	834.9	810.5	797.1	796.1	788.6
5°	1002.5	967.7	912.0	848.8	781.1	722.9	664.2	625.9	591.6	572.7	569.2
7.5°	1009.0	963.7	873.7	767.7	652.3	557.2	491.6	443.3	424.4	410.5	410.0
10°	1022.4	956.8	816.5	660.2	517.4	421.4	376.1	354.2	343.8	339.8	333.8
12.5°	1032.4	943.8	757.7	549.8	409.0	349.3	329.4	324.4	324.9	326.9	324.4
15°	1046.3	932.4	678.6	451.3	343.3	314.4	314.4	315.4	322.4	323.4	322.9
17.5°	1045.3	910.0	597.0	371.7	303.5	299.5	301.0	310.5	314.9	316.4	312.9
20°	1057.3	889.1	513.0	317.4	281.1	287.1	297.0	299.5	305.0	306.0	302.0
22.5°	1053.8	836.9	434.8	274.6	264.2	275.6	285.6	288.6	287.1	284.1	283.6
25°	1047.3	792.1	363.2	246.3	251.8	264.2	273.6	268.2	265.2	265.7	266.2
27.5°	1035.9	735.4	304.0	226.4	234.8	253.2	252.7	250.8	253.7	251.3	253.7
30°	1033.9	678.6	255.2	208.5	222.4	235.8	236.8	240.3	243.8	239.3	243.8
32.5°	1036.9	616.4	220.4	197.5	214.9	215.4	226.4	229.9	227.4	217.4	218.4
35°	1059.8	568.7	195.0	191.6	203.0	203.5	213.9	209.5	198.5	192.5	196.0
37.5°	1108.0	528.9	183.1	186.1	187.1	193.5	194.0	185.1	186.1	185.6	187.6
40°	1169.7	498.5	174.6	181.1	180.1	184.6	166.7	171.6	176.1	177.6	178.6
42.5°	1212.0	476.6	169.2	173.1	171.2	163.2	153.2	158.2	161.7	167.2	168.2
45°	1230.9	459.2	162.7	159.2	159.2	144.8	140.8	141.8	149.8	155.7	154.7
47.5°	1200.1	442.3	151.3	140.8	144.3	132.3	127.9	127.9	136.3	143.8	142.3
48°	1188.1	435.3	151.7	136.8	139.3	130.4	125.9	124.9	134.3	141.3	141.3
50°	1128.9	409.5	138.8	125.9	120.9	119.9	116.9	117.9	123.9	130.4	130.4
52.5°	1013.5	353.7	117.4	108.0	99.0	105.0	106.5	104.5	107.5	113.4	112.9
55°	845.8	271.7	94.0	89.6	82.6	89.1	92.0	89.6	86.6	91.0	91.0
57.5°	541.8	146.3	75.1	76.1	69.2	75.6	78.1	72.1	66.7	70.2	69.7
60°	244.3	87.6	61.7	60.2	55.7	63.2	67.2	60.2	52.7	55.2	57.7
62.5°	91.5	62.2	46.8	45.8	44.8	51.7	53.7	48.3	40.8	42.3	42.8
65°	67.2	54.7	37.3	33.8	35.8	40.8	39.8	34.3	29.4	29.4	30.3
67.5°	57.2	47.8	30.3	26.4	26.4	26.9	24.9	21.9	20.4	21.4	22.4
70°	44.8	37.8	23.9	20.4	18.4	16.4	14.4	13.9	12.4	13.9	13.4
72.5°	28.9	25.4	18.4	15.4	13.9	11.4	9.5	9.0	7.5	7.0	7.0
75°	15.4	15.4	14.4	12.4	10.9	9.0	7.5	6.0	4.0	3.0	3.0
77.5°	10.9	11.9	12.9	11.9	10.0	7.5	6.0	4.0	2.0	1.0	1.0
80°	10.4	11.9	12.9	11.4	10.0	7.5	5.5	3.0	1.5	0.5	0.5
82.5°	9.5	10.9	11.9	10.4	9.0	6.5	5.0	3.0	1.5	0.5	0.5
85°	2.0	2.5	3.0	3.0	3.5	4.5	3.5	2.5	1.0	0.5	0.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5
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)