

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: P458737

Luminaire Tested: **GALN-SA2D-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10640 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

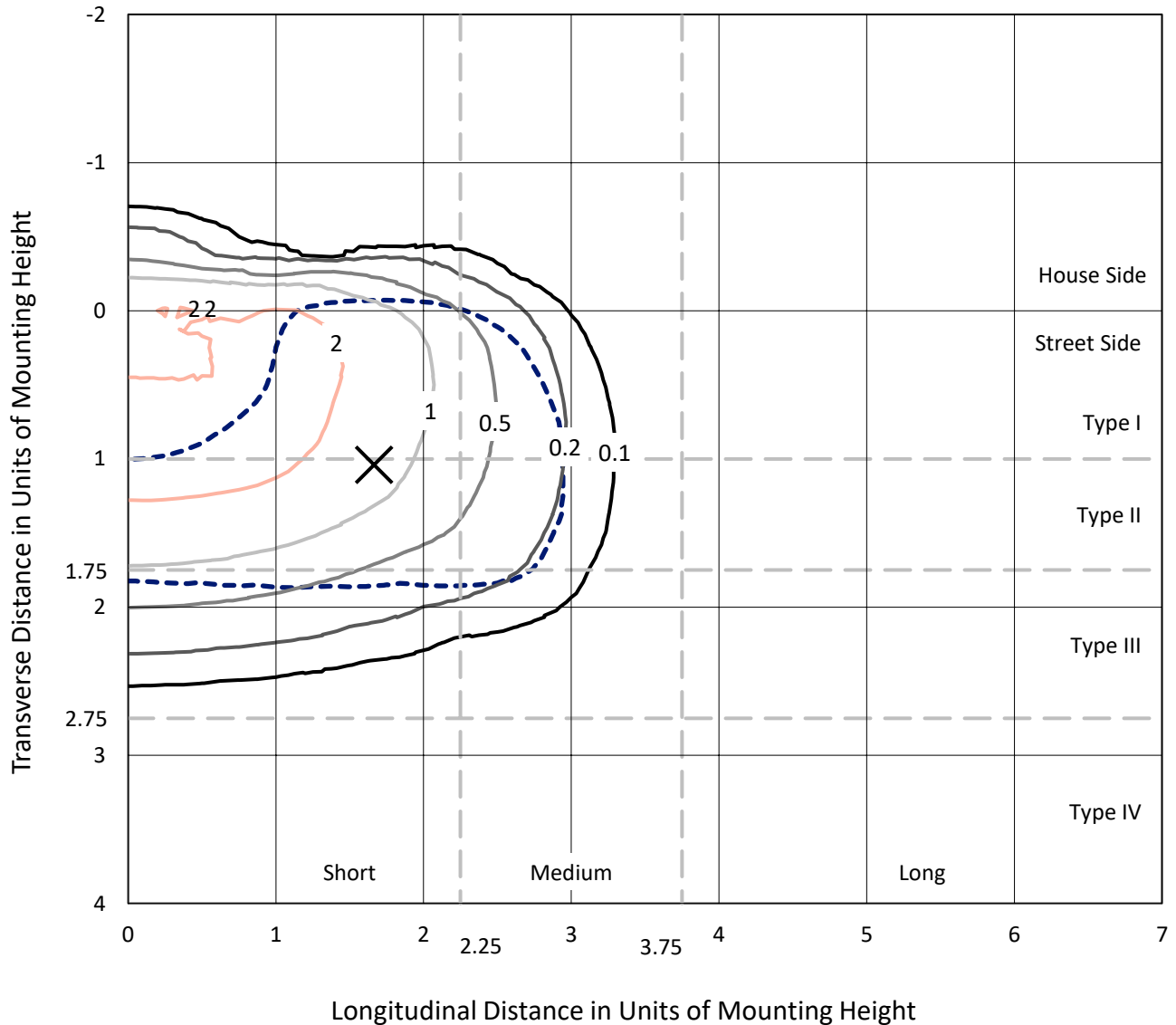
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

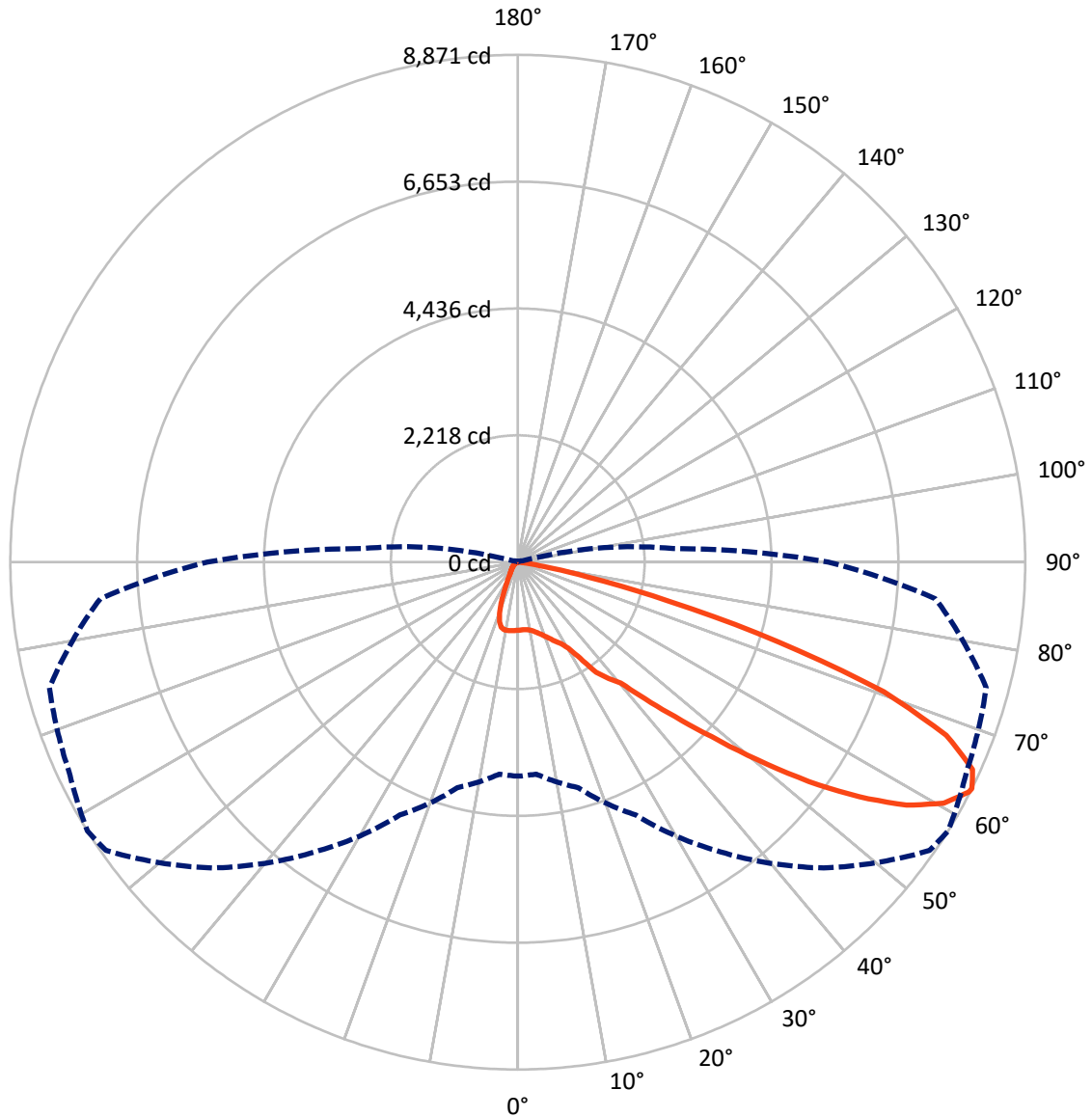
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.7	0.0	1101.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9538.3	0.0	9538.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	10640.0	0.0	10640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	1.0
10°-20°	303.7	2.9
20°-30°	527.1	5.0
30°-40°	968.6	9.1
40°-50°	1823.4	17.1
50°-60°	3118.8	29.3
60°-70°	2986.3	28.1
70°-80°	761.5	7.2
80°-90°	38.9	0.4
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°	10640.0	100.0
0°-180°	10640.0	100.0

Coefficient of Utilization



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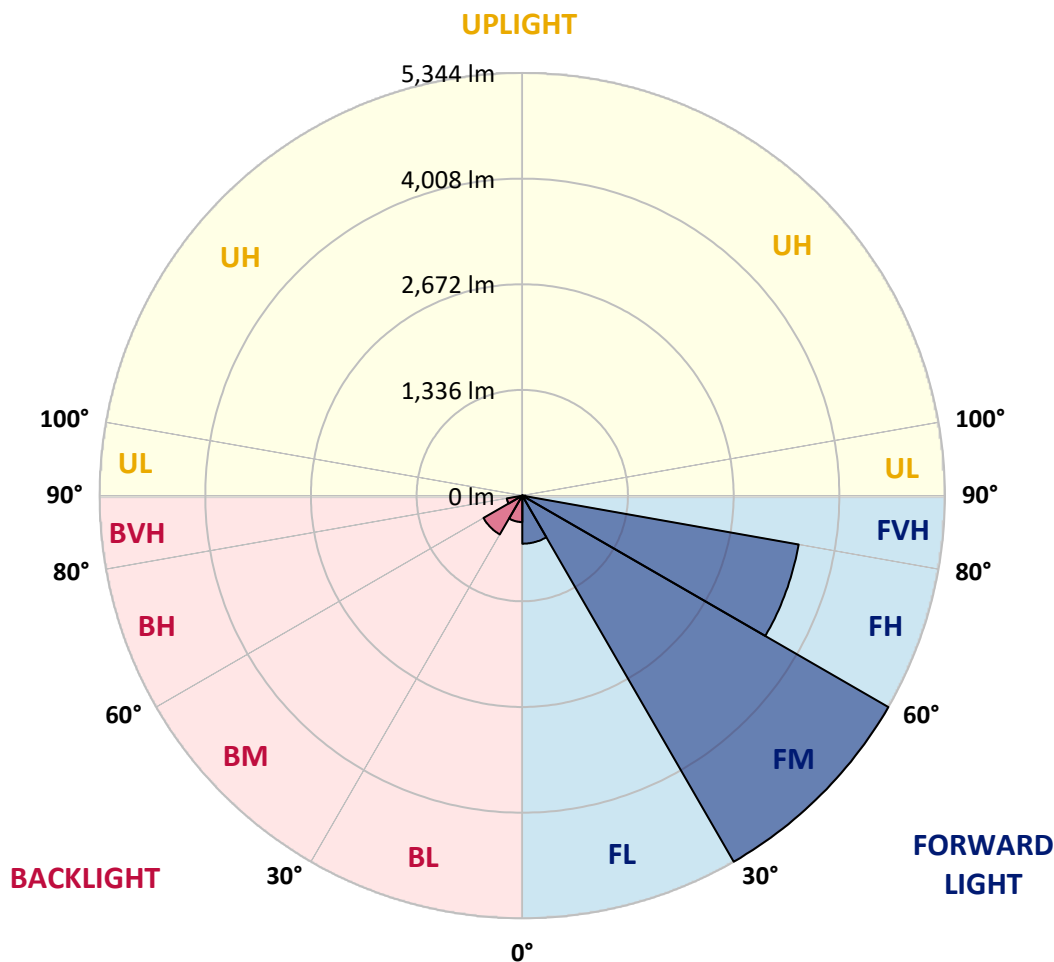
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.2	5.7			
FM (30°-60°)	5344.3	50.2			
FH (60°-80°)	3548.4	33.3			G2/5000
FVH (80°-90°)	37.4	0.4			G1/100
BL (0°-30°)	334.1	3.1	B1/500		
BM (30°-60°)	566.7	5.3	B1/1000		
BH (60°-80°)	199.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1161.5	1165.6	1169.6	1171.2	1176.8	1182.4	1186.4	1185.6	1192.0	1195.2	1195.2
5°	1115.1	1115.1	1125.5	1135.1	1151.1	1167.2	1182.4	1185.6	1197.6	1208.8	1212.8
7.5°	1075.8	1078.2	1086.2	1103.9	1125.5	1153.5	1184.0	1191.2	1212.0	1236.9	1247.3
10°	1057.4	1059.0	1069.4	1087.9	1115.1	1153.5	1196.0	1209.6	1241.7	1280.9	1295.3
12.5°	1053.4	1055.8	1066.2	1087.1	1118.3	1164.8	1222.4	1236.9	1283.3	1333.8	1355.4
15°	1060.6	1062.2	1072.6	1095.1	1129.5	1184.8	1257.7	1277.7	1333.0	1391.5	1419.5
17.5°	1086.2	1084.6	1091.9	1110.3	1148.7	1209.6	1300.1	1324.2	1389.1	1469.2	1487.6
20°	1195.2	1184.8	1178.4	1162.4	1177.6	1244.9	1351.4	1386.6	1466.8	1548.5	1561.3
22.5°	1429.9	1406.7	1361.0	1298.5	1250.5	1292.9	1413.1	1453.9	1557.3	1637.4	1637.4
25°	1728.7	1699.1	1653.4	1517.2	1399.5	1372.2	1482.8	1534.0	1655.8	1736.7	1710.3
27.5°	2102.8	2079.6	1990.7	1832.0	1651.8	1510.8	1563.7	1610.9	1743.1	1840.9	1785.6
30°	2407.2	2396.0	2323.1	2181.3	1982.6	1776.8	1714.3	1745.5	1859.3	1972.2	1915.4
32.5°	2664.4	2664.4	2589.9	2457.7	2271.8	2089.2	1969.8	1992.3	2101.2	2231.8	2126.0
35°	2947.1	2937.5	2877.4	2751.7	2543.4	2382.4	2333.5	2364.0	2462.5	2559.4	2299.1
37.5°	3244.3	3241.1	3178.6	3056.9	2887.1	2684.4	2569.8	2577.8	2628.3	2687.6	2501.7
40°	3567.2	3572.0	3490.3	3415.0	3254.7	3047.3	2827.8	2777.3	2824.6	2992.0	2875.8
42.5°	3948.5	3937.3	3902.0	3799.5	3670.5	3546.3	3282.8	3264.4	3306.0	3485.4	3359.7
45°	4391.5	4407.5	4346.6	4289.7	4203.2	4099.9	3879.6	3847.5	3893.2	4172.0	3993.3
47.5°	4835.3	4820.0	4859.3	4848.9	4895.3	4818.4	4623.8	4558.1	4667.8	4932.2	4669.4
50°	5173.3	5190.1	5271.8	5391.2	5590.7	5633.9	5447.3	5424.8	5473.7	5643.5	5274.2
52.5°	5392.8	5448.9	5577.0	5883.8	6243.5	6523.1	6381.3	6369.3	6349.3	6394.9	5852.6
55°	5536.2	5593.1	5760.5	6212.3	6831.5	7285.7	7292.9	7241.7	7109.5	7076.6	6393.3
57.5°	5448.1	5459.3	5698.0	6302.0	7157.5	7829.6	8065.2	8013.9	7769.6	7645.4	6870.8
60°	4896.9	4920.2	5252.6	5962.4	7015.8	8007.5	8577.0	8553.8	8286.3	8146.1	7242.5
62.5°	3920.4	3987.7	4329.8	5121.2	6356.5	7707.9	8784.5	8850.2	8641.9	8448.9	7359.4
63°	3741.0	3719.4	4080.6	4876.1	6181.8	7559.7	8787.7	8871.0	8658.0	8477.7	7327.4
65°	2769.3	2834.2	3068.9	3845.1	5144.5	6870.0	8589.9	8737.3	8598.7	8350.3	6972.5
67.5°	1554.9	1551.7	1811.2	2516.2	3600.8	5388.8	7767.2	8078.8	8049.9	7493.2	5779.7
70°	761.0	773.0	879.6	1304.1	2088.4	3717.8	6454.2	6790.7	6801.1	5885.5	3996.5
72.5°	344.5	350.1	426.2	635.2	1073.4	1979.4	4447.5	4768.8	4709.5	3750.6	2206.9
75°	181.8	193.9	234.7	319.6	517.5	816.3	2419.2	2730.0	2605.9	1713.5	812.3
77.5°	134.6	138.6	159.4	203.5	277.2	318.0	1043.8	1241.7	1163.2	620.0	269.2
80°	98.5	101.7	118.6	144.2	174.6	161.8	393.3	451.0	404.5	210.7	82.5
82.5°	60.1	60.9	86.5	107.3	109.7	90.5	129.8	139.4	145.8	118.6	44.9
85°	21.6	27.2	58.5	77.7	64.9	45.7	54.5	60.1	65.7	75.3	26.4
87.5°	2.4	3.2	28.0	37.7	18.4	16.8	20.0	22.4	24.0	28.0	12.8
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°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1198.4	1201.6	1199.2	1195.2	1194.4	1192.0	1187.2	1187.2	1187.2	1188.8	1187.2
5°	1216.0	1218.4	1212.8	1204.8	1196.0	1184.8	1172.8	1165.6	1164.8	1163.2	1159.1
7.5°	1249.7	1252.9	1240.1	1220.8	1196.8	1169.6	1143.9	1119.9	1108.7	1099.9	1099.9
10°	1298.5	1301.7	1276.1	1241.7	1193.6	1138.3	1077.4	1022.2	978.9	958.9	954.1
12.5°	1357.0	1358.6	1316.2	1256.1	1176.8	1070.2	940.5	819.5	735.4	696.9	692.9
15°	1421.1	1409.9	1353.8	1261.7	1128.7	930.0	705.7	557.5	470.2	444.6	454.2
17.5°	1486.0	1465.2	1382.6	1252.9	1020.6	705.7	474.2	380.5	353.3	346.1	346.1
20°	1546.9	1518.0	1403.5	1214.4	833.1	486.2	351.7	329.2	324.4	319.6	320.4
22.5°	1607.7	1563.7	1421.9	1128.7	620.8	347.7	314.8	307.6	301.2	294.8	294.0
25°	1667.0	1606.1	1429.1	970.1	423.0	298.8	287.6	278.0	265.2	257.9	256.3
27.5°	1728.7	1657.4	1424.3	769.8	308.4	267.6	256.3	242.7	227.5	214.7	214.7
30°	1847.3	1755.1	1407.5	553.5	259.5	235.5	221.1	199.5	182.6	169.8	169.0
32.5°	2009.1	1882.5	1349.8	389.3	230.7	207.5	185.8	161.8	144.2	134.6	134.6
35°	2153.3	2010.7	1241.7	286.8	207.5	180.2	153.8	130.6	117.0	110.5	108.1
37.5°	2372.8	2198.1	1092.7	233.1	185.0	156.2	129.0	107.3	96.1	91.3	91.3
40°	2702.0	2427.2	910.0	204.3	163.4	133.0	107.3	90.5	81.7	76.1	76.1
42.5°	3110.5	2707.6	725.0	183.4	143.4	114.6	89.7	76.9	68.9	64.9	64.1
45°	3624.8	3003.2	558.3	164.2	127.4	97.7	76.1	64.9	56.9	54.5	55.3
47.5°	4161.6	3263.6	432.6	147.4	110.5	82.5	64.9	56.1	50.5	47.3	47.3
50°	4619.8	3443.0	328.4	128.2	97.7	69.7	56.9	50.5	45.7	44.1	43.3
52.5°	5002.7	3495.1	251.5	111.3	85.7	60.1	50.5	45.7	41.7	39.3	39.3
55°	5328.7	3449.4	197.1	93.7	72.1	52.1	44.9	40.9	36.0	33.6	32.8
57.5°	5519.4	3302.8	150.6	77.7	58.5	43.3	39.3	34.4	28.8	24.8	24.8
60°	5615.5	3089.7	115.4	64.1	44.9	34.4	32.0	25.6	20.0	16.8	16.0
62.5°	5500.1	2806.9	87.3	50.5	33.6	25.6	21.6	18.4	12.8	9.6	9.6
63°	5428.8	2725.2	84.1	48.1	31.2	24.0	20.0	16.8	11.2	8.8	8.0
65°	4949.0	2368.8	68.9	38.5	24.8	16.8	13.6	12.0	8.0	4.0	3.2
67.5°	3930.0	1812.0	54.5	28.8	17.6	12.0	8.0	7.2	2.4	0.0	0.0
70°	2657.1	1170.4	42.5	20.8	12.0	7.2	4.0	3.2	0.8	0.0	0.0
72.5°	1385.8	600.0	32.8	15.2	7.2	4.8	2.4	0.8	0.0	0.0	0.0
75°	490.3	204.3	24.0	9.6	4.8	2.4	0.8	0.0	0.0	0.0	0.0
77.5°	148.2	76.1	15.2	7.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0
80°	52.1	28.0	8.8	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	25.6	13.6	5.6	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.4	8.8	4.8	4.0	2.4	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	6.4	4.8	4.0	3.2	1.6	0.8	0.0	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)