

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: P458795

Luminaire Tested: **GALN-SA3B-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458795
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-SA3B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 11617 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

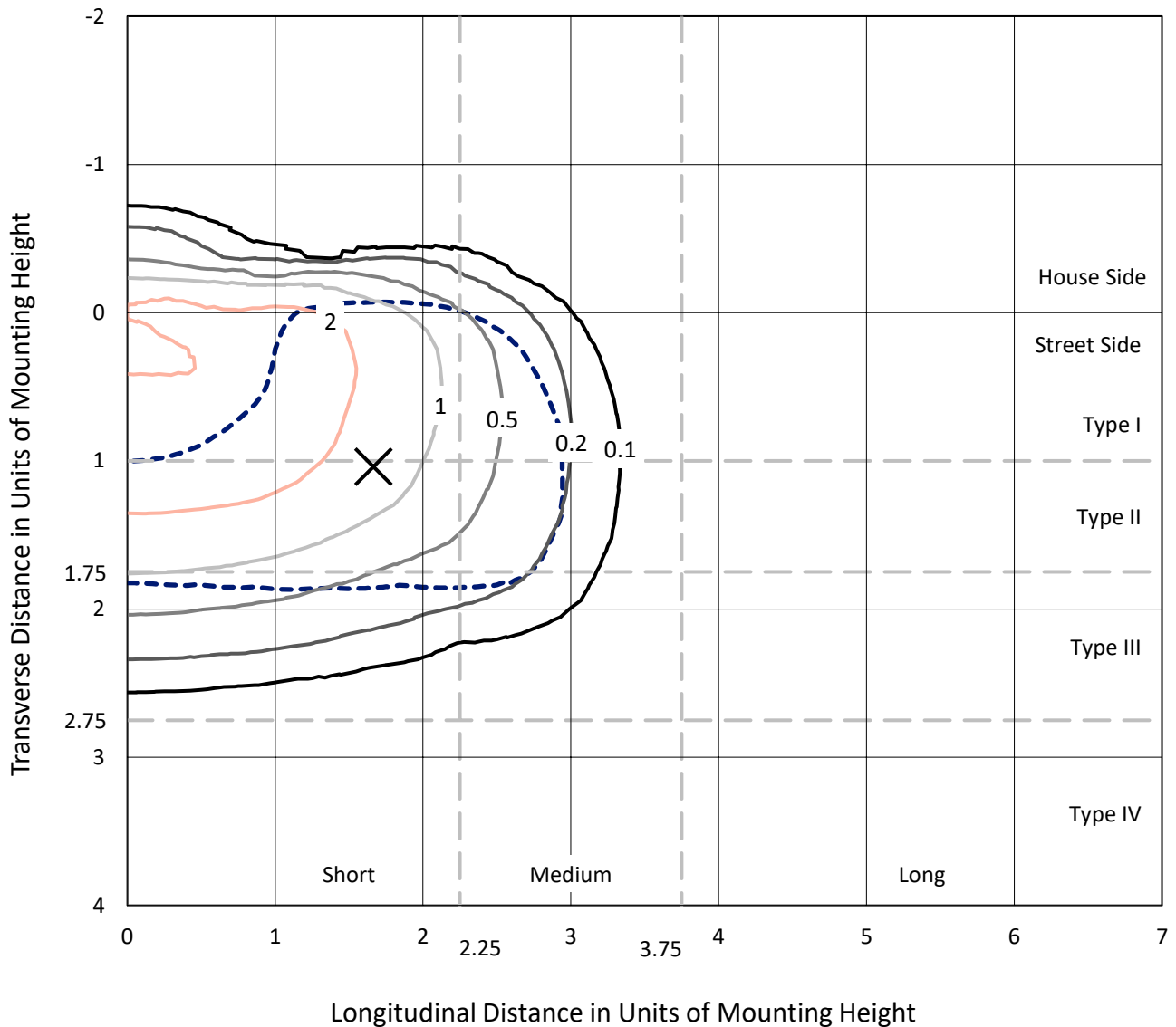
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

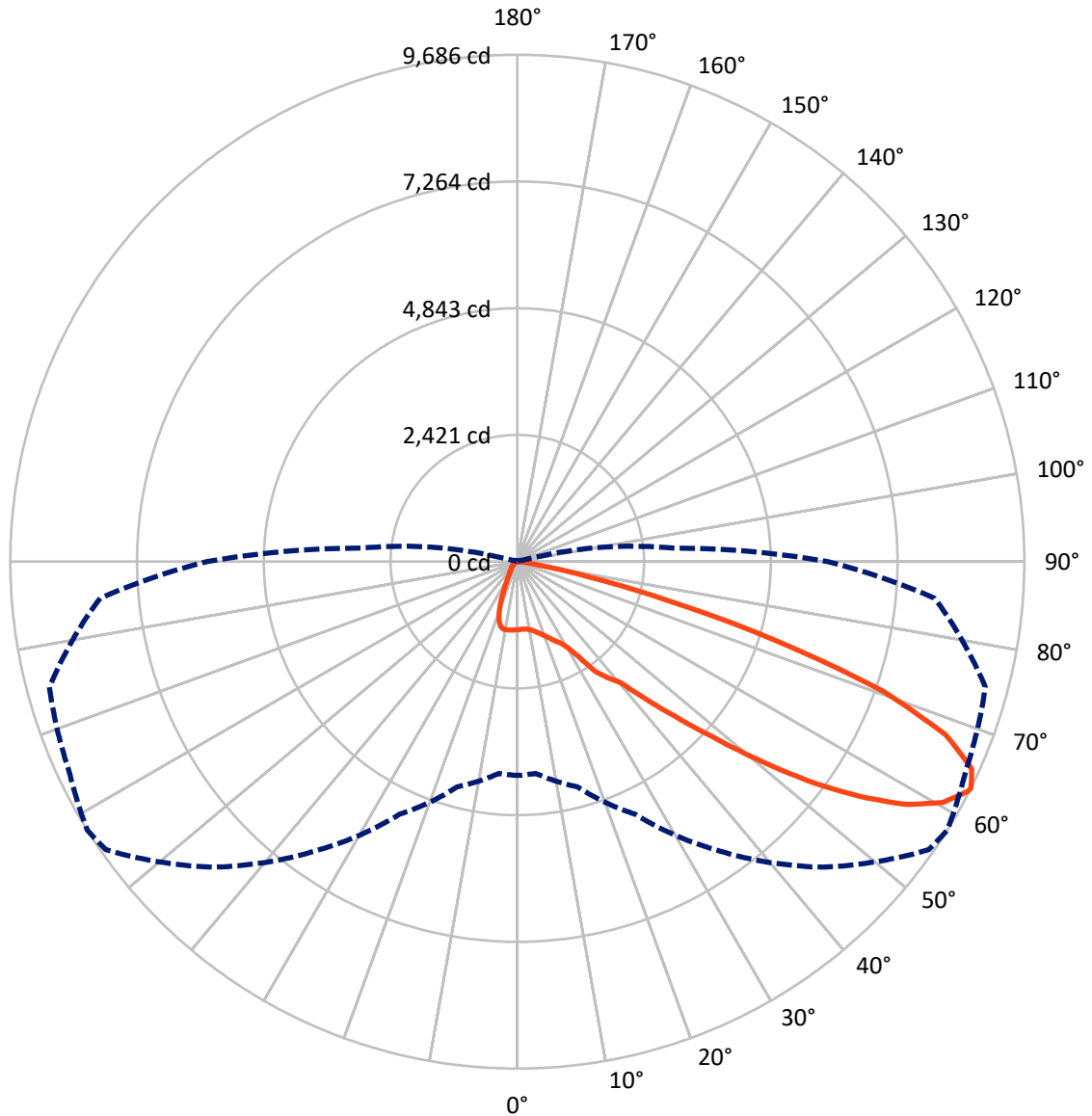
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1202.9	0.0	1202.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10414.1	0.0	10414.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	11617.0	0.0	11617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	1.0
10°-20°	331.6	2.9
20°-30°	575.5	5.0
30°-40°	1057.6	9.1
40°-50°	1990.9	17.1
50°-60°	3405.2	29.3
60°-70°	3260.5	28.1
70°-80°	831.4	7.2
80°-90°	42.5	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°	11617.0	100.0
0°-180°	11617.0	100.0

Coefficient of Utilization



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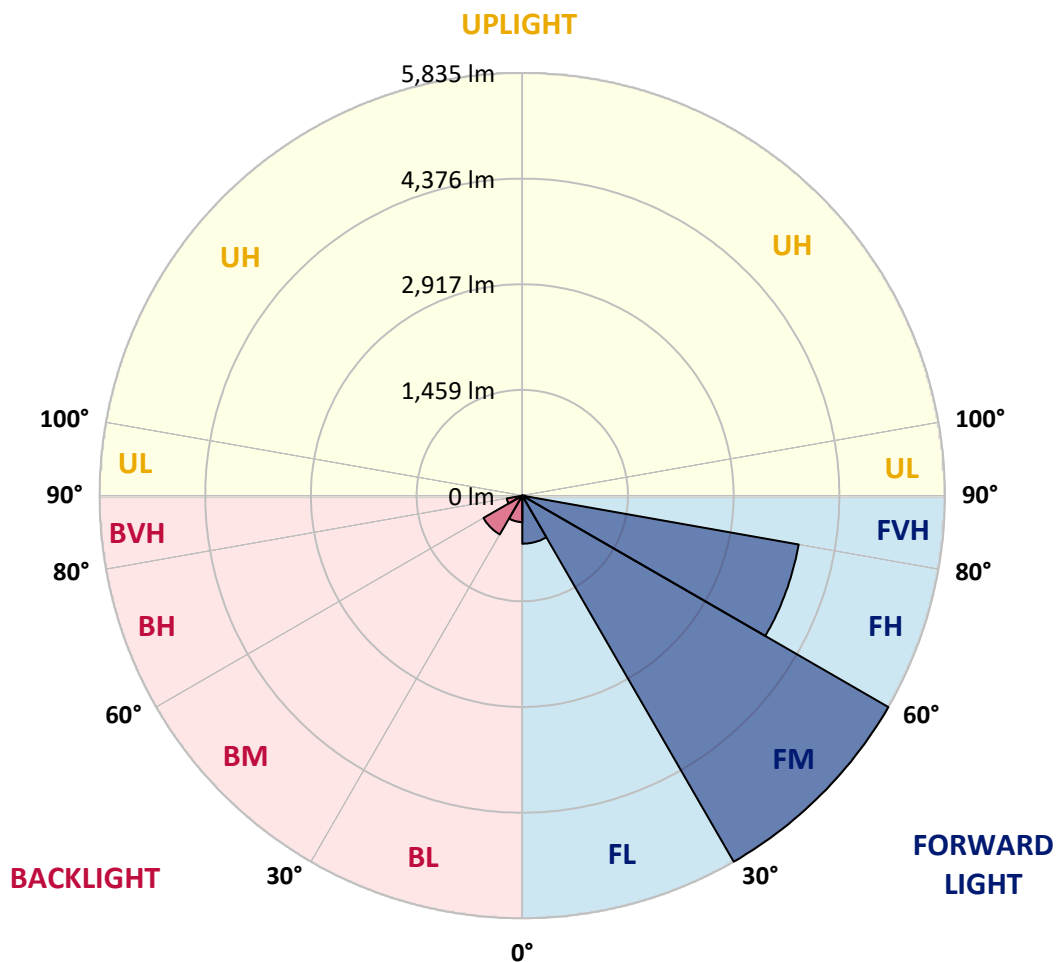
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.1	5.7			
FM (30°-60°)	5835.0	50.2			
FH (60°-80°)	3874.2	33.3			G2/5000
FVH (80°-90°)	40.9	0.4			G1/100
BL (0°-30°)	364.8	3.1	B1/500		
BM (30°-60°)	618.7	5.3	B1/1000		
BH (60°-80°)	217.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6
2.5°	1268.2	1272.6	1277.0	1278.7	1284.8	1290.9	1295.3	1294.4	1301.4	1304.9	1304.9
5°	1217.5	1217.5	1228.8	1239.3	1256.8	1274.3	1290.9	1294.4	1307.6	1319.8	1324.2
7.5°	1174.6	1177.2	1186.0	1205.2	1228.8	1259.5	1292.7	1300.6	1323.3	1350.4	1361.8
10°	1154.5	1156.3	1167.6	1187.7	1217.5	1259.5	1305.8	1320.7	1355.7	1398.5	1414.3
12.5°	1150.1	1152.8	1164.1	1186.9	1221.0	1271.7	1334.7	1350.4	1401.2	1456.3	1479.9
15°	1158.0	1159.8	1171.1	1195.6	1233.2	1293.6	1373.2	1395.0	1455.4	1519.2	1549.8
17.5°	1186.0	1184.2	1192.1	1212.2	1254.2	1320.7	1419.5	1445.8	1516.6	1604.1	1624.2
20°	1304.9	1293.6	1286.6	1269.1	1285.7	1359.2	1475.5	1514.0	1601.4	1690.7	1704.6
22.5°	1561.2	1535.8	1486.0	1417.8	1365.3	1411.6	1542.8	1587.4	1700.3	1787.7	1787.7
25°	1887.4	1855.1	1805.2	1656.5	1528.0	1498.2	1618.9	1674.9	1807.9	1896.2	1867.3
27.5°	2295.9	2270.5	2173.4	2000.3	1803.5	1649.5	1707.3	1758.9	1903.2	2009.9	1949.5
30°	2628.2	2616.0	2536.4	2381.6	2164.7	1939.9	1871.7	1905.8	2030.0	2153.3	2091.2
32.5°	2909.0	2909.0	2827.7	2683.4	2480.4	2281.0	2150.7	2175.2	2294.1	2436.7	2321.3
35°	3217.7	3207.3	3141.7	3004.3	2776.9	2601.1	2547.8	2581.0	2688.6	2794.4	2510.2
37.5°	3542.2	3538.7	3470.5	3337.6	3152.2	2930.9	2805.8	2814.5	2869.6	2934.4	2731.5
40°	3894.7	3900.0	3810.7	3728.5	3553.6	3327.1	3087.4	3032.3	3083.9	3266.7	3139.9
42.5°	4311.0	4298.8	4260.3	4148.3	4007.5	3872.0	3584.2	3564.1	3609.6	3805.5	3668.2
45°	4794.7	4812.2	4745.7	4683.6	4589.2	4476.3	4235.8	4200.8	4250.7	4555.0	4360.0
47.5°	5279.2	5262.6	5305.5	5294.1	5344.8	5260.9	5048.3	4976.6	5096.4	5385.1	5098.2
50°	5648.3	5666.7	5755.9	5886.2	6104.0	6151.2	5947.5	5923.0	5976.3	6161.7	5758.5
52.5°	5888.0	5949.2	6089.1	6424.1	6816.8	7122.1	6967.3	6954.1	6932.3	6982.1	6390.0
55°	6044.5	6106.6	6289.4	6782.7	7458.8	7954.7	7962.6	7906.6	7762.3	7726.4	6980.4
57.5°	5948.3	5960.6	6221.2	6880.7	7814.8	8548.6	8805.7	8749.8	8483.0	8347.4	7501.7
60°	5346.6	5371.9	5734.9	6509.8	7660.0	8742.8	9364.6	9339.3	9047.1	8894.1	7907.5
62.5°	4280.4	4353.9	4727.4	5591.5	6940.2	8415.6	9591.1	9662.9	9435.5	9224.7	8035.2
63°	4084.5	4060.9	4455.3	5323.8	6749.5	8253.8	9594.6	9685.6	9453.0	9256.2	8000.2
65°	3023.6	3094.4	3350.7	4198.2	5616.8	7500.8	9378.6	9539.5	9388.2	9117.1	7612.7
67.5°	1697.6	1694.1	1977.5	2747.2	3931.4	5883.6	8480.4	8820.6	8789.1	8181.2	6310.4
70°	830.9	844.0	960.3	1423.9	2280.1	4059.1	7046.9	7414.2	7425.6	6425.9	4363.5
72.5°	376.1	382.2	465.3	693.6	1172.0	2161.2	4855.9	5206.6	5141.9	4095.0	2409.6
75°	198.5	211.7	256.3	349.0	565.0	891.2	2641.4	2980.7	2845.2	1870.8	886.9
77.5°	146.9	151.3	174.1	222.2	302.6	347.2	1139.6	1355.7	1270.0	677.0	293.9
80°	107.6	111.1	129.4	157.4	190.7	176.7	429.4	492.4	441.7	230.0	90.1
82.5°	65.6	66.5	94.5	117.2	119.8	98.8	141.7	152.2	159.2	129.4	49.0
85°	23.6	29.7	63.8	84.8	70.8	49.9	59.5	65.6	71.7	82.2	28.9
87.5°	2.6	3.5	30.6	41.1	20.1	18.4	21.9	24.5	26.2	30.6	14.0
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°	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6	1300.6
2.5°	1308.4	1311.9	1309.3	1304.9	1304.1	1301.4	1296.2	1296.2	1296.2	1297.9	1296.2
5°	1327.7	1330.3	1324.2	1315.4	1305.8	1293.6	1280.5	1272.6	1271.7	1270.0	1265.6
7.5°	1364.4	1367.9	1353.9	1332.9	1306.7	1277.0	1249.0	1222.7	1210.5	1200.9	1200.9
10°	1417.8	1421.3	1393.3	1355.7	1303.2	1242.8	1176.4	1116.0	1068.8	1046.9	1041.7
12.5°	1481.6	1483.4	1437.0	1371.4	1284.8	1168.5	1026.8	894.7	802.9	760.9	756.6
15°	1551.6	1539.3	1478.1	1377.5	1232.3	1015.4	770.5	608.7	513.4	485.4	495.9
17.5°	1622.4	1599.7	1509.6	1367.9	1114.3	770.5	517.8	415.4	385.7	377.8	377.8
20°	1688.9	1657.4	1532.3	1325.9	909.6	530.9	384.0	359.5	354.2	349.0	349.9
22.5°	1755.4	1707.3	1552.5	1232.3	677.8	379.6	343.7	335.9	328.9	321.9	321.0
25°	1820.1	1753.6	1560.3	1059.2	461.8	326.2	314.0	303.5	289.5	281.6	279.9
27.5°	1887.4	1809.6	1555.1	840.5	336.7	292.1	279.9	265.0	248.4	234.4	234.4
30°	2016.9	1916.3	1536.7	604.4	283.4	257.1	241.4	217.8	199.4	185.4	184.5
32.5°	2193.6	2055.4	1473.7	425.1	251.9	226.5	202.9	176.7	157.4	146.9	146.9
35°	2351.0	2195.3	1355.7	313.1	226.5	196.8	167.9	142.6	127.7	120.7	118.1
37.5°	2590.6	2400.0	1193.0	254.5	202.0	170.6	140.8	117.2	105.0	99.7	99.7
40°	2950.1	2650.1	993.6	223.0	178.4	145.2	117.2	98.8	89.2	83.1	83.1
42.5°	3396.2	2956.2	791.5	200.3	156.6	125.1	98.0	84.0	75.2	70.8	70.0
45°	3957.7	3279.0	609.6	179.3	139.1	106.7	83.1	70.8	62.1	59.5	60.3
47.5°	4543.7	3563.2	472.3	160.9	120.7	90.1	70.8	61.2	55.1	51.6	51.6
50°	5044.0	3759.1	358.6	139.9	106.7	76.1	62.1	55.1	49.9	48.1	47.2
52.5°	5462.0	3816.0	274.6	121.6	93.6	65.6	55.1	49.9	45.5	42.9	42.9
55°	5818.0	3766.1	215.2	102.3	78.7	56.9	49.0	44.6	39.4	36.7	35.9
57.5°	6026.2	3606.1	164.4	84.8	63.8	47.2	42.9	37.6	31.5	27.1	27.1
60°	6131.1	3373.4	125.9	70.0	49.0	37.6	35.0	28.0	21.9	18.4	17.5
62.5°	6005.2	3064.7	95.3	55.1	36.7	28.0	23.6	20.1	14.0	10.5	10.5
63°	5927.3	2975.5	91.8	52.5	34.1	26.2	21.9	18.4	12.2	9.6	8.7
65°	5403.4	2586.3	75.2	42.0	27.1	18.4	14.9	13.1	8.7	4.4	3.5
67.5°	4290.9	1978.4	59.5	31.5	19.2	13.1	8.7	7.9	2.6	0.0	0.0
70°	2901.1	1277.8	46.4	22.7	13.1	7.9	4.4	3.5	0.9	0.0	0.0
72.5°	1513.1	655.1	35.9	16.6	7.9	5.2	2.6	0.9	0.0	0.0	0.0
75°	535.3	223.0	26.2	10.5	5.2	2.6	0.9	0.0	0.0	0.0	0.0
77.5°	161.8	83.1	16.6	7.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0
80°	56.9	30.6	9.6	5.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	28.0	14.9	6.1	4.4	2.6	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.7	9.6	5.2	4.4	2.6	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	7.0	5.2	4.4	3.5	1.7	0.9	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)