

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: P454068

Luminaire Tested: **GALN-SA5A-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454068
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-SA5A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA 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: 12360 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

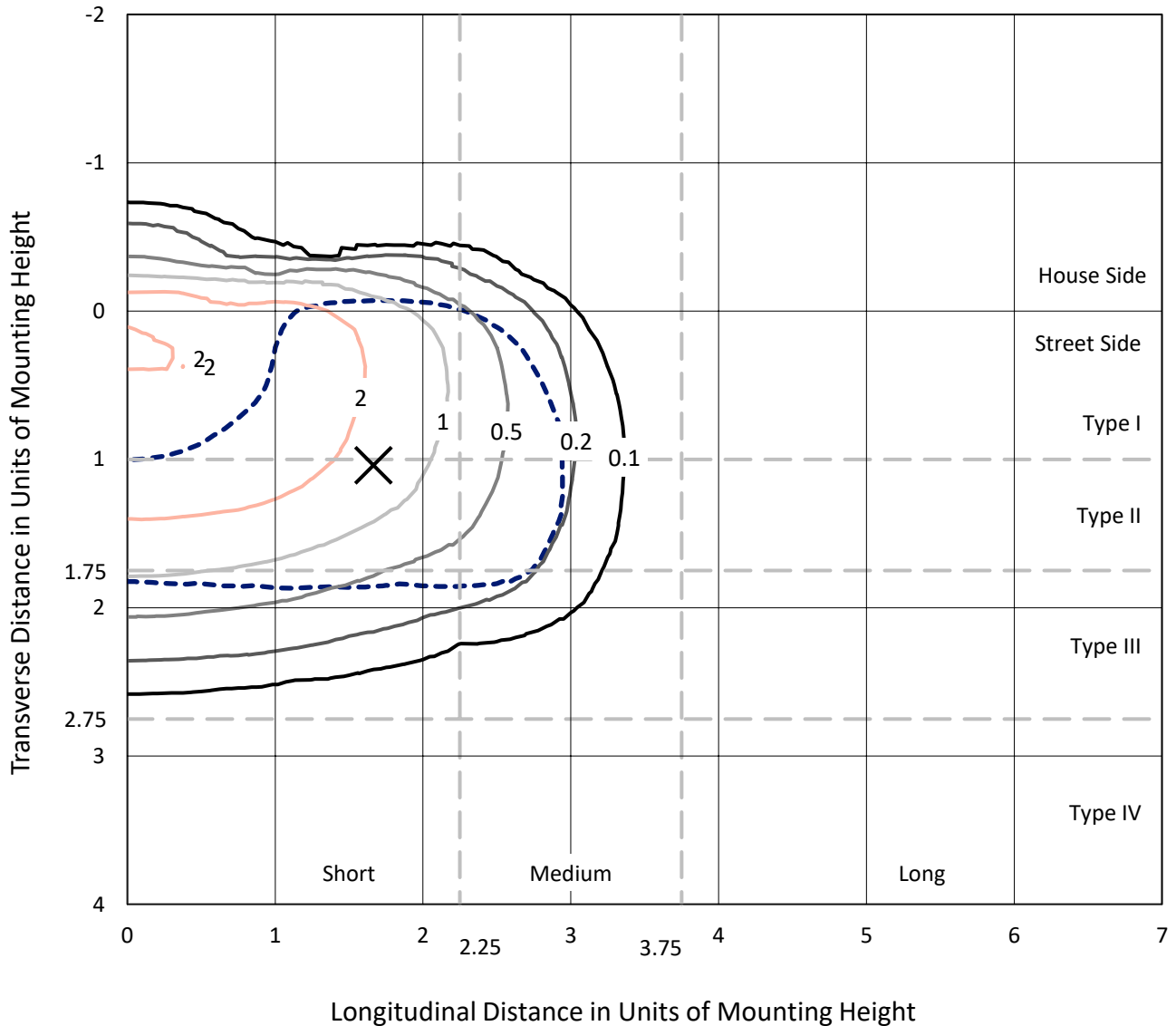
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

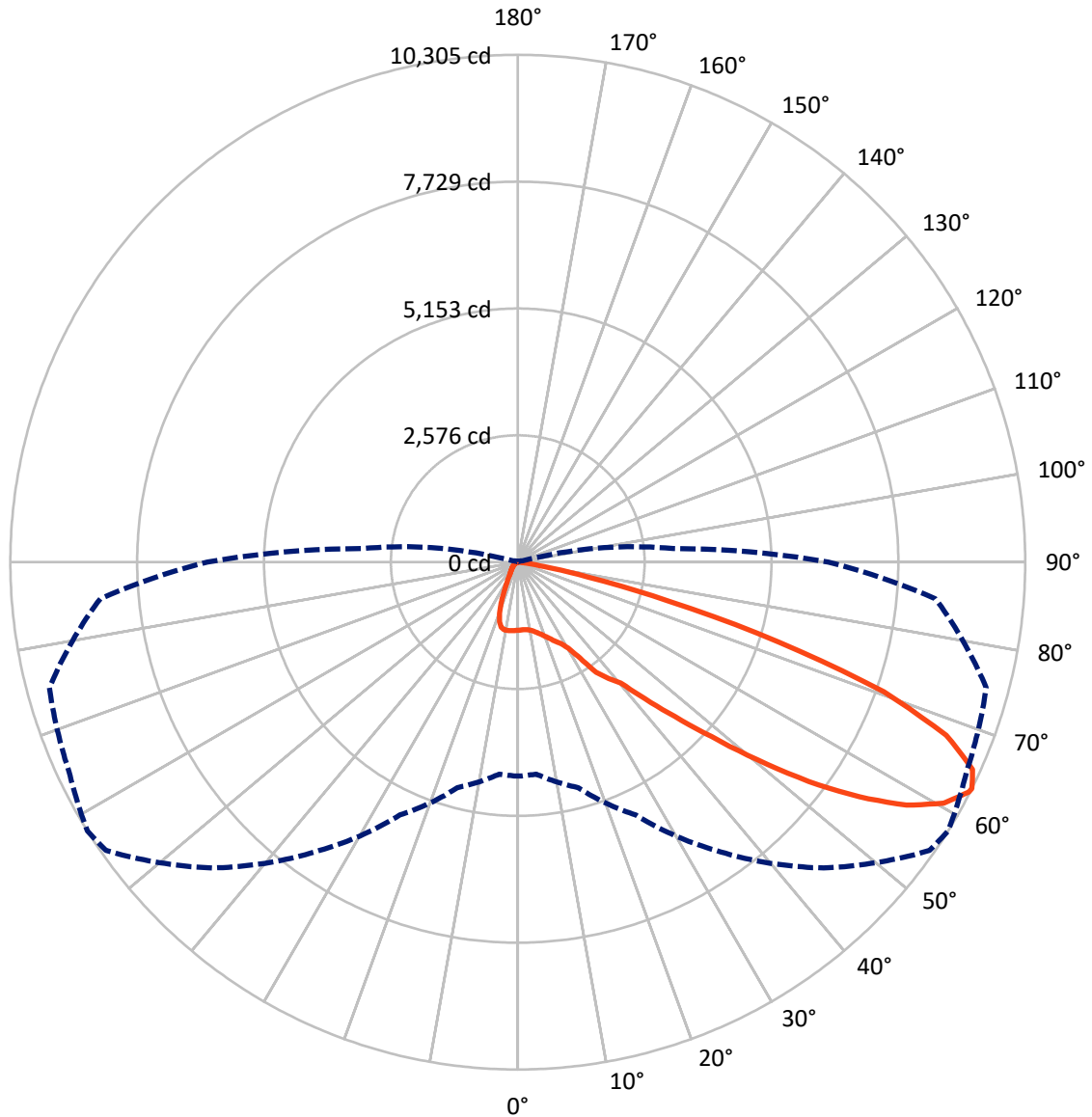
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	1279.8	0.0	1279.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11080.2	0.0	11080.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	12360.0	0.0	12360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.0
10°-20°	352.8	2.9
20°-30°	612.3	5.0
30°-40°	1125.2	9.1
40°-50°	2118.2	17.1
50°-60°	3623.0	29.3
60°-70°	3469.0	28.1
70°-80°	884.6	7.2
80°-90°	45.2	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°	12360.0	100.0
0°-180°	12360.0	100.0

Coefficient of Utilization



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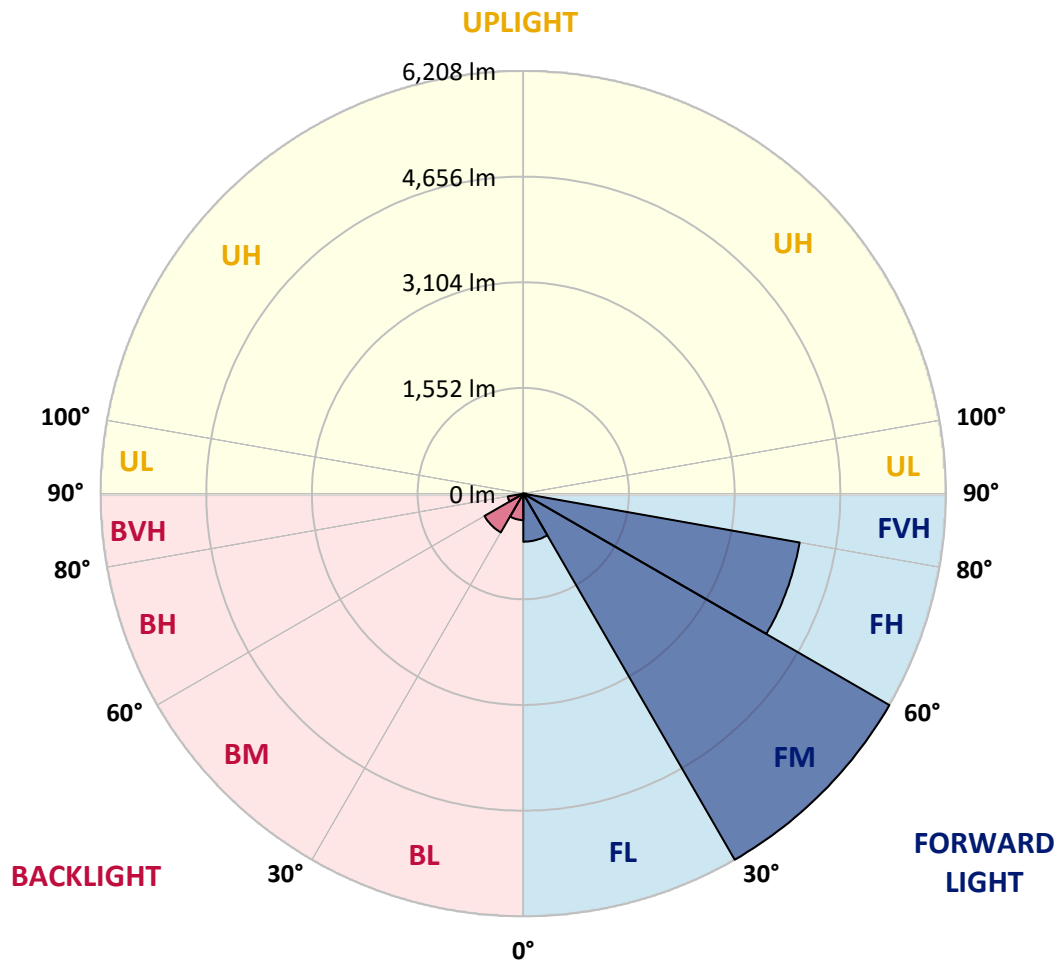
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.5	5.7			
FM (30°-60°)	6208.2	50.2			
FH (60°-80°)	4122.0	33.3			G2/5000
FVH (80°-90°)	43.5	0.4			G1/100
BL (0°-30°)	388.1	3.1	B1/500		
BM (30°-60°)	658.3	5.3	B1/1000		
BH (60°-80°)	231.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5°	1349.3	1354.0	1358.6	1360.5	1367.0	1373.5	1378.2	1377.2	1384.7	1388.4	1388.4
5°	1295.3	1295.3	1307.4	1318.6	1337.2	1355.8	1373.5	1377.2	1391.2	1404.2	1408.9
7.5°	1249.7	1252.5	1261.8	1282.3	1307.4	1340.0	1375.4	1383.7	1407.9	1436.8	1448.9
10°	1228.3	1230.2	1242.3	1263.7	1295.3	1340.0	1389.3	1405.2	1442.4	1488.0	1504.7
12.5°	1223.7	1226.5	1238.6	1262.8	1299.1	1353.0	1420.0	1436.8	1490.8	1549.4	1574.5
15°	1232.1	1233.9	1246.0	1272.1	1312.1	1376.3	1461.0	1484.3	1548.5	1616.4	1649.0
17.5°	1261.8	1260.0	1268.4	1289.8	1334.4	1405.2	1510.3	1538.2	1613.6	1706.7	1728.1
20°	1388.4	1376.3	1368.9	1350.2	1367.9	1446.1	1569.9	1610.8	1703.9	1798.8	1813.7
22.5°	1661.1	1634.1	1581.0	1508.4	1452.6	1501.9	1641.5	1689.0	1809.0	1902.1	1902.1
25°	2008.2	1973.7	1920.7	1762.5	1625.7	1594.1	1722.5	1782.0	1923.5	2017.5	1986.8
27.5°	2442.7	2415.7	2312.5	2128.2	1918.8	1755.0	1816.5	1871.4	2024.9	2138.4	2074.2
30°	2796.3	2783.3	2698.6	2533.9	2303.1	2064.0	1991.4	2027.7	2159.8	2291.1	2225.0
32.5°	3095.1	3095.1	3008.5	2855.0	2639.1	2426.9	2288.3	2314.3	2440.9	2592.6	2469.7
35°	3423.5	3412.4	3342.6	3196.5	2954.5	2767.5	2710.7	2746.1	2860.6	2973.2	2670.7
37.5°	3768.8	3765.1	3692.5	3551.0	3353.8	3118.3	2985.3	2994.6	3053.2	3122.0	2906.2
40°	4143.8	4149.4	4054.5	3967.0	3780.9	3539.9	3284.9	3226.3	3281.2	3475.7	3340.7
42.5°	4586.8	4573.7	4532.8	4413.7	4263.8	4119.6	3813.5	3792.1	3840.4	4048.9	3902.8
45°	5101.4	5120.0	5049.2	4983.2	4882.7	4762.6	4506.7	4469.5	4522.5	4846.4	4638.9
47.5°	5616.9	5599.2	5644.8	5632.7	5686.7	5597.3	5371.2	5294.9	5422.4	5729.5	5424.3
50°	6009.6	6029.1	6124.0	6262.7	6494.4	6544.7	6327.8	6301.8	6358.5	6555.8	6126.8
52.5°	6264.6	6329.7	6478.6	6835.0	7252.8	7577.6	7412.9	7398.9	7375.7	7428.7	6798.7
55°	6431.1	6497.2	6691.7	7216.5	7935.9	8463.5	8471.9	8412.3	8258.8	8220.6	7426.8
57.5°	6328.8	6341.8	6619.1	7320.8	8314.6	9095.3	9368.9	9309.4	9025.5	8881.3	7981.5
60°	5688.5	5715.5	6101.7	6926.2	8149.9	9301.9	9963.6	9936.6	9625.8	9462.9	8413.2
62.5°	4554.2	4632.4	5029.7	5949.1	7384.0	8953.9	10204.6	10280.9	10038.9	9814.7	8549.1
63°	4345.7	4320.6	4740.3	5664.3	7181.2	8781.7	10208.3	10305.1	10057.5	9848.2	8511.9
65°	3217.0	3292.3	3565.0	4466.7	5976.1	7980.5	9978.4	10149.7	9988.7	9700.2	8099.6
67.5°	1806.2	1802.5	2104.0	2922.9	4182.9	6259.9	9022.8	9384.7	9351.2	8704.5	6714.0
70°	884.0	898.0	1021.8	1515.0	2426.0	4318.8	7497.6	7888.4	7900.5	6836.9	4642.6
72.5°	400.1	406.7	495.1	737.9	1247.0	2299.4	5166.5	5539.7	5470.8	4356.9	2563.7
75°	211.2	225.2	272.7	371.3	601.1	948.2	2810.3	3171.4	3027.1	1990.5	943.6
77.5°	156.3	161.0	185.2	236.4	322.0	369.4	1212.5	1442.4	1351.2	720.3	312.7
80°	114.5	118.2	137.7	167.5	202.9	188.0	456.9	523.9	469.9	244.7	95.8
82.5°	69.8	70.7	100.5	124.7	127.5	105.2	150.8	161.9	169.4	137.7	52.1
85°	25.1	31.6	67.9	90.3	75.4	53.0	63.3	69.8	76.3	87.5	30.7
87.5°	2.8	3.7	32.6	43.7	21.4	19.5	23.3	26.1	27.9	32.6	14.9
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°	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7	1383.7
2.5°	1392.1	1395.8	1393.1	1388.4	1387.5	1384.7	1379.1	1379.1	1379.1	1381.0	1379.1
5°	1412.6	1415.4	1408.9	1399.6	1389.3	1376.3	1362.3	1354.0	1353.0	1351.2	1346.5
7.5°	1451.7	1455.4	1440.5	1418.2	1390.3	1358.6	1328.8	1300.9	1287.9	1277.7	1277.7
10°	1508.4	1512.2	1482.4	1442.4	1386.5	1322.3	1251.6	1187.4	1137.2	1113.9	1108.3
12.5°	1576.4	1578.2	1528.9	1459.1	1367.0	1243.2	1092.5	952.0	854.3	809.6	804.9
15°	1650.8	1637.8	1572.7	1465.6	1311.2	1080.4	819.8	647.7	546.2	516.5	527.6
17.5°	1726.2	1702.0	1606.2	1455.4	1185.5	819.8	550.9	442.0	410.4	402.0	402.0
20°	1796.9	1763.4	1630.3	1410.7	967.8	564.9	408.5	382.5	376.9	371.3	372.2
22.5°	1867.6	1816.5	1651.8	1311.2	721.2	403.9	365.7	357.3	349.9	342.4	341.5
25°	1936.5	1865.8	1660.1	1126.9	491.3	347.1	334.1	322.9	308.0	299.6	297.8
27.5°	2008.2	1925.3	1654.5	894.3	358.3	310.8	297.8	282.0	264.3	249.4	249.4
30°	2145.9	2038.9	1635.0	643.0	301.5	273.6	256.8	231.7	212.2	197.3	196.3
32.5°	2333.9	2186.8	1568.0	452.3	268.0	241.0	215.9	188.0	167.5	156.3	156.3
35°	2501.4	2335.7	1442.4	333.1	241.0	209.4	178.7	151.7	135.9	128.4	125.6
37.5°	2756.3	2553.5	1269.3	270.8	215.0	181.5	149.8	124.7	111.7	106.1	106.1
40°	3138.8	2819.6	1057.1	237.3	189.8	154.5	124.7	105.2	94.9	88.4	88.4
42.5°	3613.4	3145.3	842.2	213.1	166.6	133.1	104.2	89.3	80.0	75.4	74.4
45°	4210.8	3488.7	648.6	190.8	148.0	113.5	88.4	75.4	66.1	63.3	64.2
47.5°	4834.3	3791.1	502.5	171.2	128.4	95.8	75.4	65.1	58.6	54.9	54.9
50°	5366.6	3999.6	381.5	148.9	113.5	81.0	66.1	58.6	53.0	51.2	50.3
52.5°	5811.4	4060.1	292.2	129.3	99.6	69.8	58.6	53.0	48.4	45.6	45.6
55°	6190.1	4007.0	228.9	108.9	83.8	60.5	52.1	47.5	41.9	39.1	38.2
57.5°	6411.6	3836.7	174.9	90.3	67.9	50.3	45.6	40.0	33.5	28.8	28.8
60°	6523.3	3589.2	134.0	74.4	52.1	40.0	37.2	29.8	23.3	19.5	18.6
62.5°	6389.3	3260.7	101.4	58.6	39.1	29.8	25.1	21.4	14.9	11.2	11.2
63°	6306.4	3165.8	97.7	55.8	36.3	27.9	23.3	19.5	13.0	10.2	9.3
65°	5749.0	2751.7	80.0	44.7	28.8	19.5	15.8	14.0	9.3	4.7	3.7
67.5°	4565.4	2104.9	63.3	33.5	20.5	14.0	9.3	8.4	2.8	0.0	0.0
70°	3086.7	1359.6	49.3	24.2	14.0	8.4	4.7	3.7	0.9	0.0	0.0
72.5°	1609.9	697.0	38.2	17.7	8.4	5.6	2.8	0.9	0.0	0.0	0.0
75°	569.5	237.3	27.9	11.2	5.6	2.8	0.9	0.0	0.0	0.0	0.0
77.5°	172.2	88.4	17.7	8.4	3.7	1.9	0.0	0.0	0.0	0.0	0.0
80°	60.5	32.6	10.2	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	15.8	6.5	4.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0
85°	16.8	10.2	5.6	4.7	2.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	7.4	5.6	4.7	3.7	1.9	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)