

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: P529022

Luminaire Tested: **GALN-SA4A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11686 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

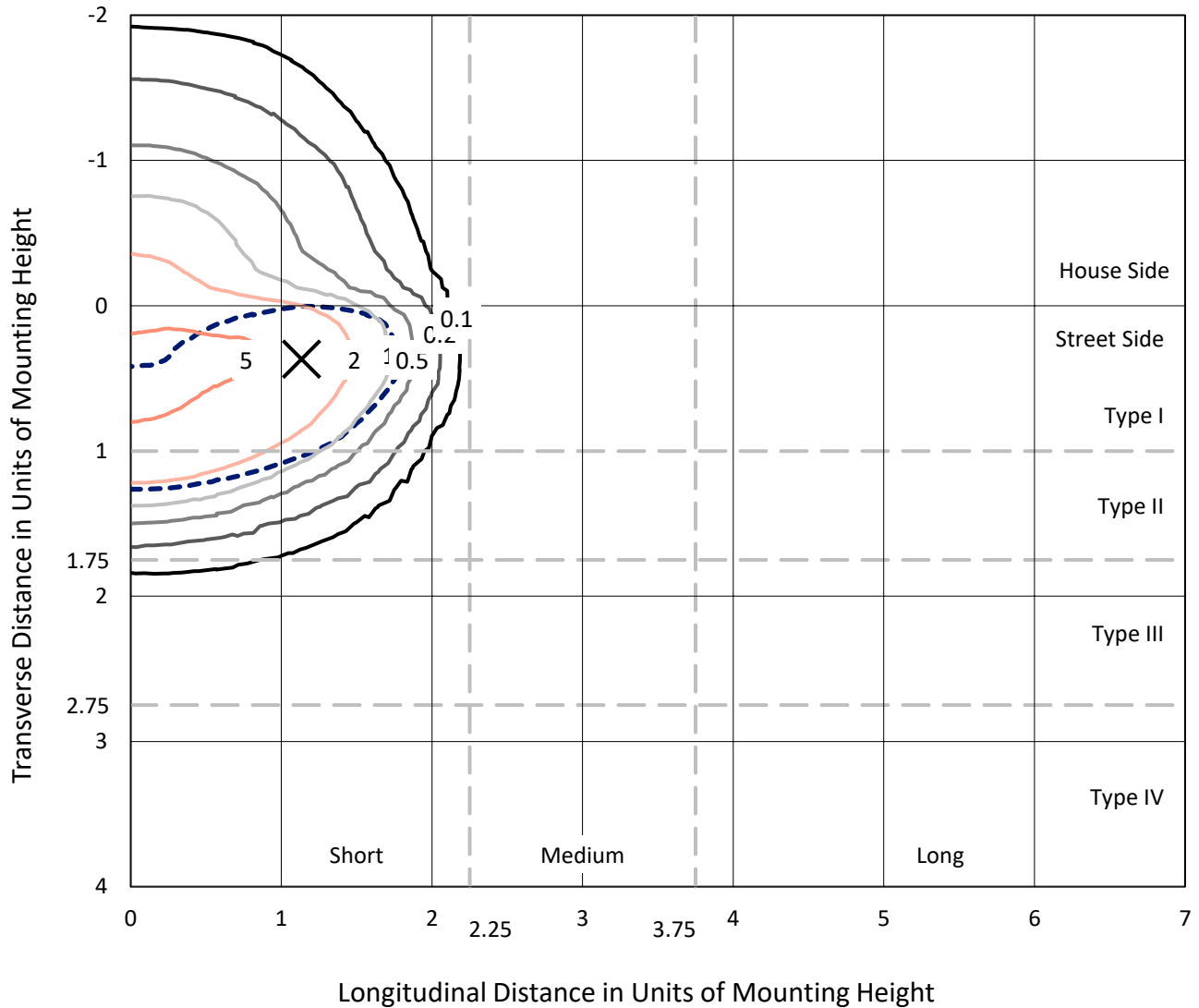
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

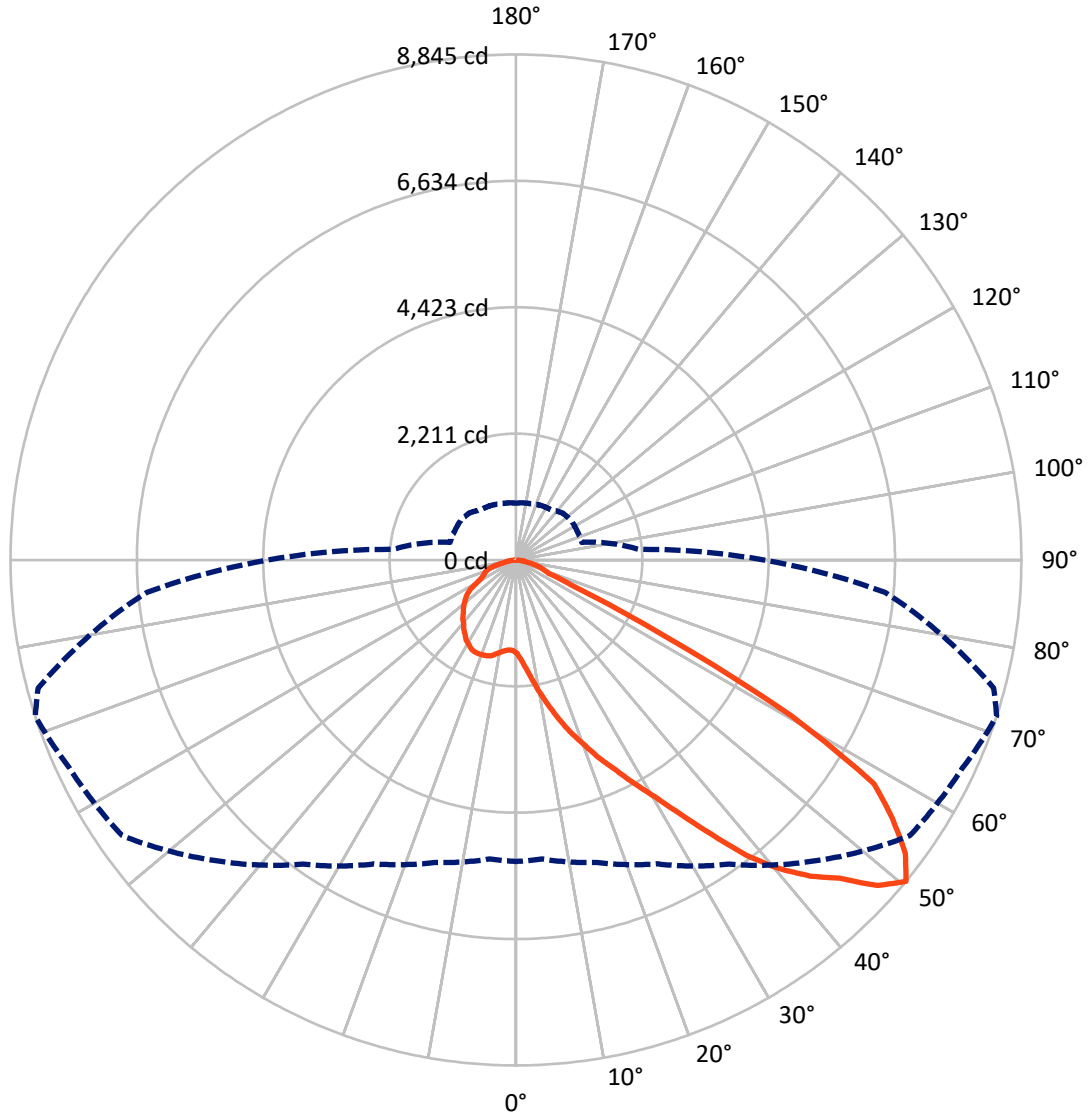
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2677.3	0.0	2677.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9008.7	0.0	9008.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	11686.0	0.0	11686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	1.6
10°-20°	715.3	6.1
20°-30°	1387.0	11.9
30°-40°	2297.8	19.7
40°-50°	3215.1	27.5
50°-60°	2712.3	23.2
60°-70°	826.7	7.1
70°-80°	290.0	2.5
80°-90°	50.4	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°	11686.0	100.0
0°-180°	11686.0	100.0

Coefficient of Utilization



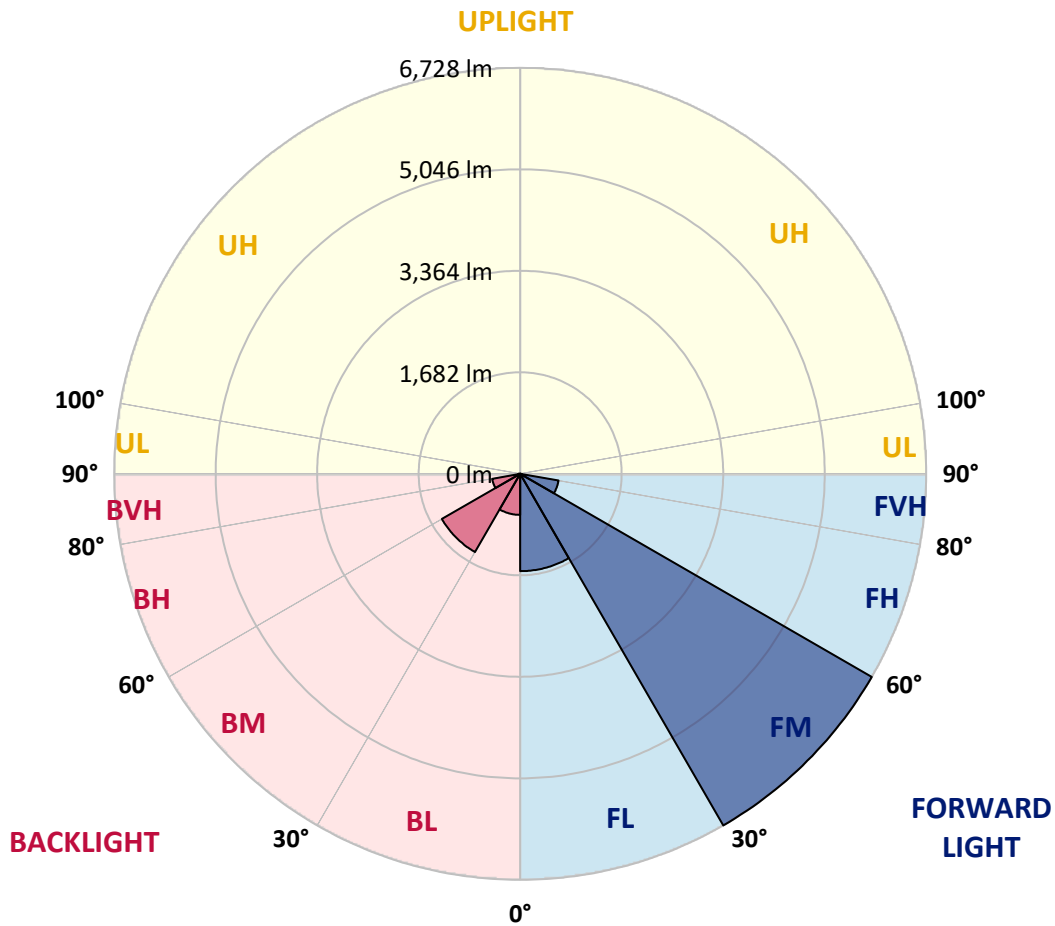
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.1	13.8			
FM (30°-60°)	6728.0	57.6			
FH (60°-80°)	645.0	5.5			G0/660
FVH (80°-90°)	22.6	0.2			G1/100
BL (0°-30°)	680.6	5.8	B2/1000		
BM (30°-60°)	1497.2	12.8	B2/2500		
BH (60°-80°)	471.7	4.0	B1/500		G1/500
BVH (80°-90°)	27.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8
2.5°	2092.4	2079.4	2040.4	2027.3	1981.1	1897.2	1868.3	1783.0	1746.8	1713.6	1674.5
5°	2646.2	2585.5	2581.2	2507.4	2400.4	2338.2	2153.1	2028.8	1914.6	1856.7	1749.7
7.5°	2999.1	3000.5	3000.5	2939.8	2854.5	2696.9	2530.6	2306.4	2134.3	2049.0	1866.8
10°	3334.6	3305.6	3289.7	3283.9	3226.1	3072.8	2895.0	2617.3	2381.6	2281.8	1955.0
12.5°	3571.7	3547.1	3583.3	3564.5	3522.5	3422.8	3255.0	2938.3	2643.4	2508.9	2096.8
15°	3684.5	3701.9	3730.8	3782.8	3764.0	3726.4	3541.3	3268.0	2925.3	2773.5	2222.6
17.5°	3858.0	3810.3	3845.0	3910.1	3962.1	3944.8	3839.2	3506.6	3204.4	3017.9	2391.7
20°	3979.5	3952.0	3969.4	4044.6	4083.6	4181.9	4127.0	3819.0	3471.9	3275.3	2591.3
22.5°	4326.5	4286.1	4229.7	4241.2	4255.7	4325.1	4338.1	4161.7	3782.8	3574.6	2780.7
25°	4754.6	4717.0	4650.5	4582.5	4540.6	4527.5	4572.4	4430.7	4080.7	3865.3	2984.6
27.5°	5226.0	5162.3	5120.4	4980.1	4867.4	4850.0	4828.3	4751.7	4433.5	4200.7	3214.5
30°	5684.4	5633.8	5577.4	5353.2	5236.1	5217.3	5110.3	5132.0	4816.7	4557.9	3474.8
32.5°	6031.4	6035.8	5907.1	5737.9	5628.0	5528.2	5489.2	5551.3	5308.4	5100.2	3765.5
35°	6311.9	6325.0	6202.0	6048.8	5930.2	5999.6	5982.3	6011.2	5895.5	5641.0	4103.9
37.5°	6585.2	6520.2	6388.6	6314.8	6252.7	6366.9	6514.4	6539.0	6560.7	6261.3	4497.2
40°	6630.1	6635.9	6559.2	6611.3	6533.2	6705.3	7048.0	7016.2	7104.4	6842.6	4923.8
42.5°	6566.5	6579.5	6609.8	6683.6	6871.6	7078.3	7587.4	7457.2	7564.2	7331.4	5338.8
45°	6462.3	6408.8	6446.4	6727.0	7052.3	7512.2	8080.5	7979.2	7944.5	7749.3	5833.3
47.5°	5964.9	6019.8	6137.0	6482.6	6971.3	7587.4	8430.4	8407.3	8511.4	8374.0	6283.0
50°	5275.1	5253.4	5479.0	5868.0	6498.5	7439.9	8411.6	8621.3	8845.4	8654.5	6484.0
52.5°	3950.6	4066.3	4260.0	4743.0	5642.4	6635.9	8000.9	8350.9	8533.1	8492.6	6322.1
55°	2497.3	2532.0	2649.1	3223.2	4033.0	5325.8	6858.6	7669.8	7995.1	8147.0	6173.1
57.5°	1213.2	1148.2	1291.3	1752.6	2329.6	3581.8	5289.6	6680.7	7387.8	7662.5	5849.2
60°	633.4	657.9	714.3	879.2	1204.5	1859.6	3297.0	4452.3	5532.5	5954.8	4433.5
62.5°	524.9	533.6	571.2	653.6	801.1	1070.1	1683.2	2170.5	2821.2	3201.5	2521.9
65°	445.4	449.7	490.2	545.2	639.1	753.4	866.2	906.7	1097.5	1126.5	896.5
67.5°	371.6	376.0	419.4	471.4	532.1	562.5	591.4	588.5	610.2	601.6	600.1
70°	286.3	290.7	335.5	390.4	420.8	403.4	493.1	513.3	522.0	529.2	540.8
72.5°	206.8	215.5	250.2	289.2	273.3	313.8	406.3	436.7	448.3	452.6	467.1
75°	150.4	153.3	162.0	150.4	173.5	218.4	286.3	323.9	338.4	342.7	364.4
77.5°	66.5	68.0	69.4	86.8	111.3	135.9	170.6	201.0	221.2	227.0	232.8
80°	34.7	36.2	44.8	59.3	79.5	99.8	124.4	141.7	154.7	156.2	162.0
82.5°	21.7	23.1	31.8	41.9	56.4	73.7	91.1	105.6	115.7	117.1	118.6
85°	10.1	13.0	18.8	26.0	37.6	47.7	49.2	41.9	44.8	46.3	43.4
87.5°	2.9	4.3	5.8	4.3	5.8	5.8	7.2	8.7	8.7	8.7	10.1
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°	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8	1626.8
2.5°	1652.8	1639.8	1589.2	1570.4	1521.2	1529.9	1503.9	1502.4	1496.6	1495.2	1493.8
5°	1693.3	1652.8	1592.1	1545.8	1518.3	1515.4	1496.6	1496.6	1502.4	1506.8	1496.6
7.5°	1759.8	1713.6	1610.9	1567.5	1542.9	1538.6	1525.6	1515.4	1528.5	1524.1	1512.6
10°	1836.5	1755.5	1647.0	1609.4	1568.9	1558.8	1558.8	1563.2	1541.5	1548.7	1537.1
12.5°	1921.8	1813.3	1693.3	1649.9	1602.2	1596.4	1593.5	1561.7	1573.3	1567.5	1538.6
15°	2030.2	1879.8	1752.6	1678.8	1638.4	1612.3	1574.7	1568.9	1561.7	1547.3	1534.2
17.5°	2147.4	1952.1	1780.1	1687.5	1626.8	1608.0	1579.1	1548.7	1527.0	1529.9	1519.8
20°	2247.1	2018.7	1790.2	1696.2	1618.1	1582.0	1537.1	1518.3	1495.2	1493.8	1492.3
22.5°	2365.7	2108.3	1804.7	1673.1	1592.1	1554.5	1524.1	1490.9	1475.0	1454.7	1464.8
25°	2507.4	2143.0	1807.5	1660.0	1573.3	1506.8	1490.9	1454.7	1448.9	1420.0	1425.8
27.5°	2610.1	2161.8	1784.4	1619.6	1529.9	1479.3	1450.4	1424.3	1414.2	1392.5	1386.7
30°	2747.5	2190.7	1735.2	1568.9	1486.5	1430.1	1412.8	1407.0	1378.1	1354.9	1352.0
32.5°	2903.6	2209.5	1703.4	1516.9	1441.7	1398.3	1407.0	1379.5	1343.4	1323.1	1317.3
35°	3028.0	2216.8	1623.9	1457.6	1411.3	1383.9	1373.7	1368.0	1315.9	1297.1	1282.6
37.5°	3217.4	2200.9	1557.4	1415.7	1378.1	1368.0	1359.3	1320.2	1260.9	1233.5	1213.2
40°	3438.7	2196.5	1472.1	1356.4	1346.3	1357.8	1331.8	1271.1	1188.6	1158.3	1143.8
42.5°	3651.2	2226.9	1418.6	1324.6	1311.6	1315.9	1279.7	1188.6	1148.2	1130.8	1107.7
45°	4007.0	2290.5	1330.4	1275.4	1269.6	1266.7	1223.3	1127.9	1104.8	1083.1	1078.7
47.5°	4328.0	2248.6	1274.0	1224.8	1230.6	1214.7	1122.1	1091.8	1065.7	1044.0	1036.8
50°	4346.8	2148.8	1194.4	1185.7	1187.2	1159.7	1071.5	1051.3	1018.0	1003.5	993.4
52.5°	4248.5	1985.4	1120.7	1123.6	1127.9	1083.1	1009.3	994.9	967.4	947.2	941.4
55°	3972.3	1730.9	1048.4	1059.9	1071.5	986.2	963.1	926.9	905.2	876.3	877.7
57.5°	3499.4	1394.0	947.2	966.0	990.5	896.5	879.2	834.4	802.6	779.4	776.5
60°	2345.5	992.0	795.3	802.6	857.5	819.9	818.5	773.6	730.2	710.0	698.4
62.5°	1383.9	757.7	686.9	679.6	678.2	699.9	736.0	720.1	663.7	624.7	636.3
65°	724.5	655.1	639.1	614.6	600.1	594.3	621.8	629.0	591.4	549.5	546.6
67.5°	608.8	608.8	595.8	587.1	566.8	542.3	524.9	501.8	496.0	484.4	470.0
70°	553.8	568.3	564.0	543.7	526.4	498.9	454.1	416.5	380.3	367.3	376.0
72.5°	483.0	497.4	497.4	487.3	464.2	422.2	378.9	335.5	305.1	282.0	279.1
75°	371.6	378.9	396.2	384.6	354.3	328.3	283.4	238.6	209.7	188.0	183.6
77.5°	237.1	248.7	248.7	247.3	225.6	201.0	172.1	140.3	118.6	102.7	98.3
80°	157.6	164.8	170.6	164.8	150.4	131.6	109.9	88.2	72.3	59.3	56.4
82.5°	115.7	124.4	128.7	122.9	108.5	94.0	78.1	62.2	46.3	36.2	33.3
85°	44.8	46.3	52.1	62.2	60.7	59.3	47.7	34.7	26.0	18.8	17.4
87.5°	11.6	10.1	11.6	11.6	10.1	8.7	8.7	8.7	8.7	4.3	5.8
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)