

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: P455463

Luminaire Tested: **GALN-SA6C-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31362 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

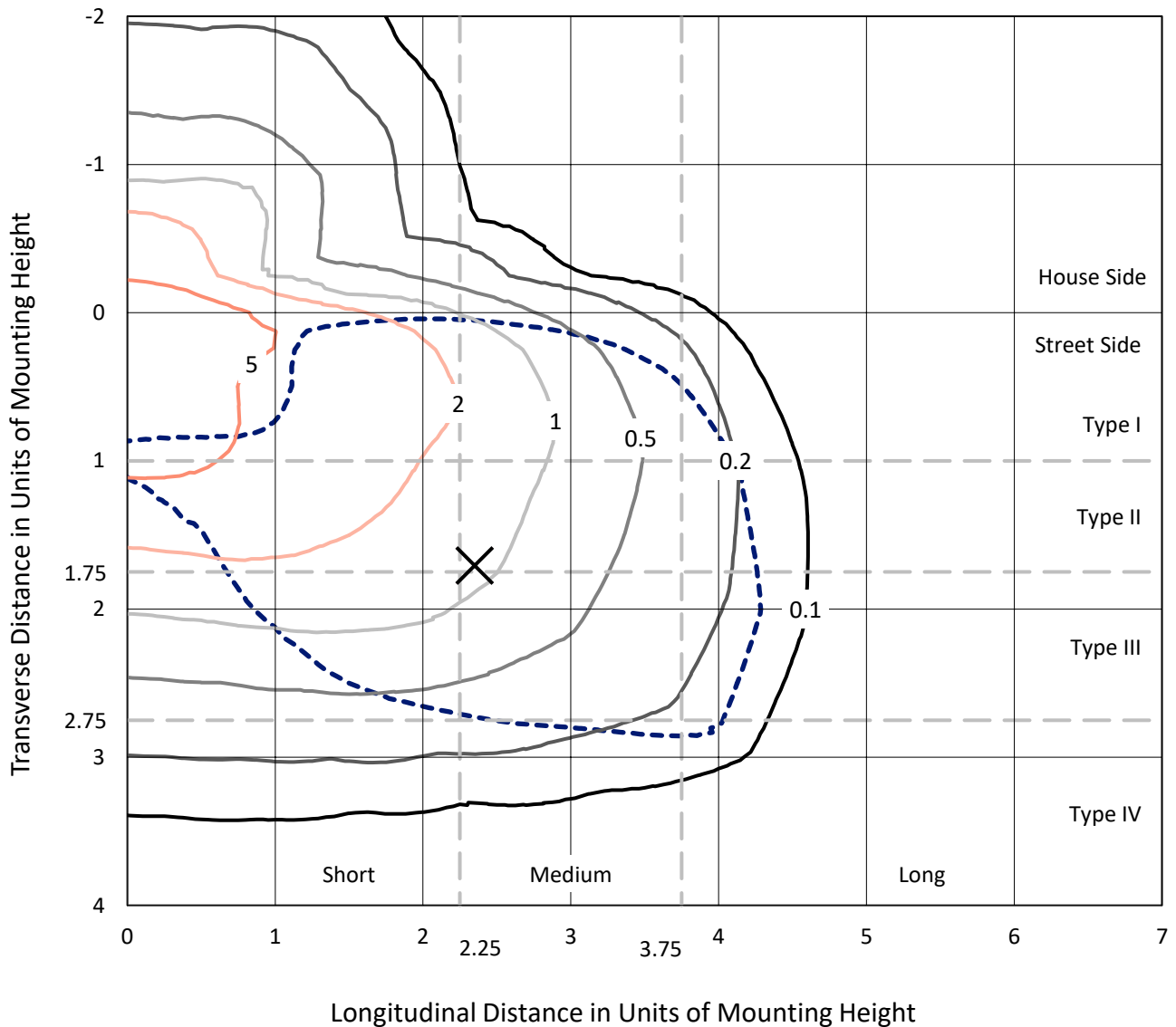
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

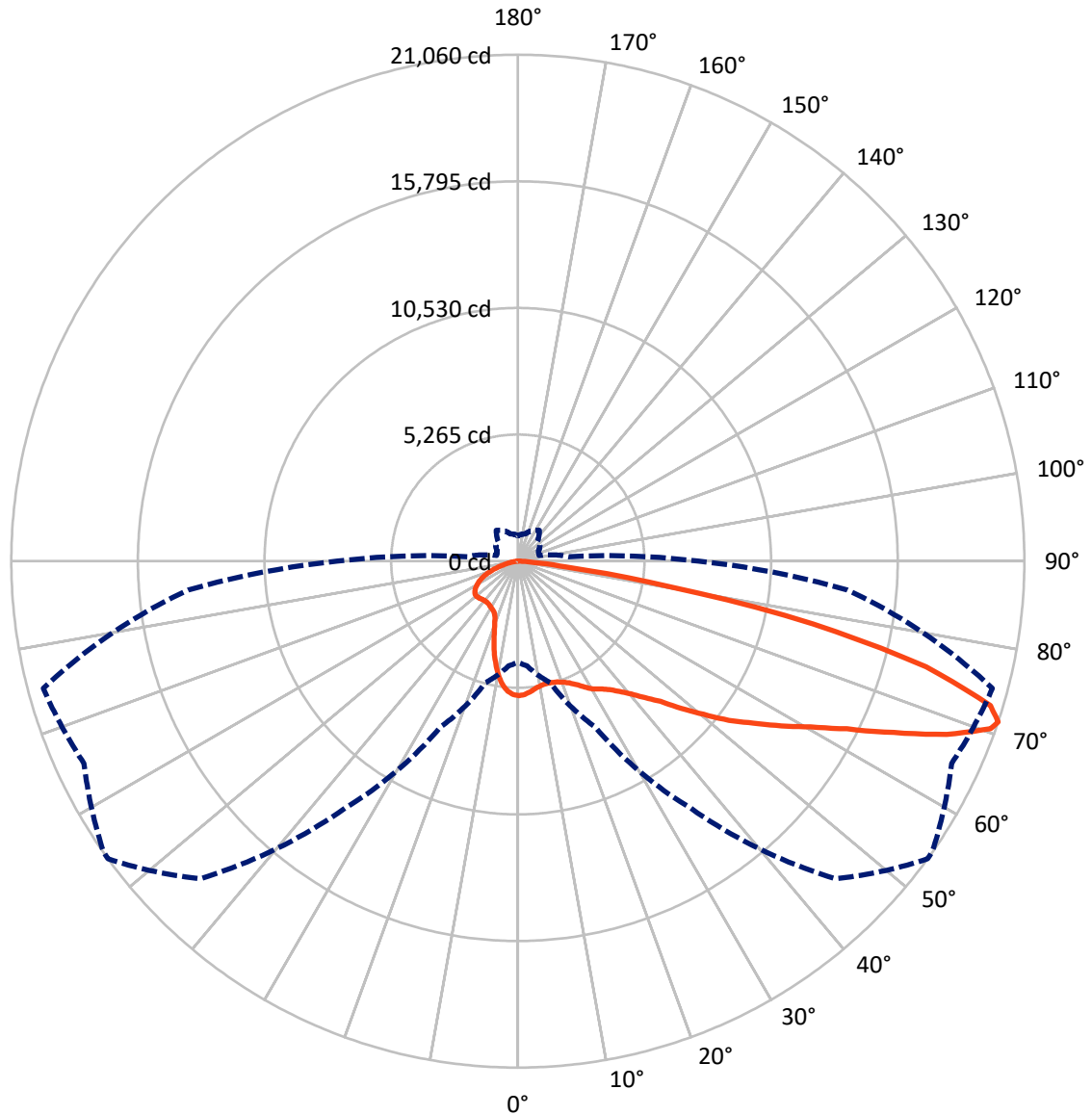
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5662.2	0.0	5662.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25699.8	0.0	25699.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	31362.0	0.0	31362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.6	1.6
10°-20°	1316.7	4.2
20°-30°	2192.3	7.0
30°-40°	3241.7	10.3
40°-50°	4566.0	14.6
50°-60°	6114.1	19.5
60°-70°	7706.3	24.6
70°-80°	5263.4	16.8
80°-90°	462.9	1.5
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°	31362.0	100.0
0°-180°	31362.0	100.0

Coefficient of Utilization



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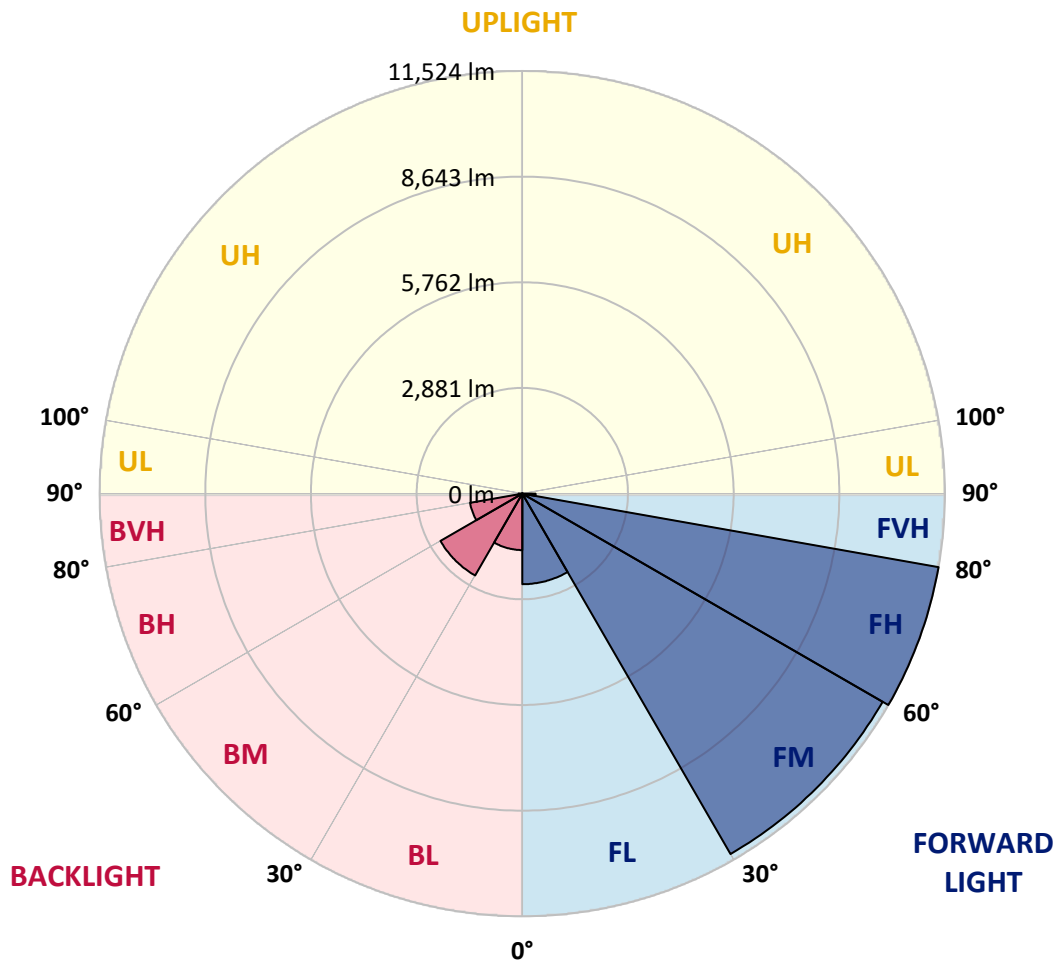
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2468.7	7.9			
FM (30°-60°)	11345.6	36.2			
FH (60°-80°)	11523.6	36.7			G4/12000
FVH (80°-90°)	361.8	1.2			G3/500
BL (0°-30°)	1538.9	4.9	B3/2500		
BM (30°-60°)	2576.1	8.2	B3/5000		
BH (60°-80°)	1446.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	101.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4
2.5°	5405.7	5431.1	5437.9	5454.8	5490.4	5519.2	5548.0	5544.6	5585.3	5602.2	5617.5
5°	5165.2	5171.9	5197.3	5231.2	5293.9	5373.5	5451.5	5453.1	5553.1	5632.7	5671.7
7.5°	4989.0	5011.0	5027.9	5063.5	5129.6	5216.0	5339.6	5349.8	5527.7	5685.2	5768.2
10°	4873.8	4899.2	4917.8	4961.9	5027.9	5124.5	5258.3	5277.0	5509.0	5768.2	5913.9
12.5°	4768.7	4794.2	4811.1	4868.7	4955.1	5073.7	5224.4	5246.5	5515.8	5864.8	6073.2
15°	4833.1	4853.5	4846.7	4863.6	4921.2	5056.7	5238.0	5260.0	5541.2	5958.0	6230.7
17.5°	5119.4	5136.4	5080.5	5016.1	4989.0	5088.9	5280.4	5304.1	5592.1	6054.5	6391.6
20°	5541.2	5587.0	5465.0	5321.0	5190.6	5204.1	5368.4	5393.9	5663.2	6151.1	6556.0
22.5°	6090.1	6124.0	5974.9	5737.7	5497.2	5373.5	5500.6	5515.8	5769.9	6276.5	6735.5
25°	6735.5	6755.9	6549.2	6244.3	5897.0	5663.2	5681.8	5708.9	5946.1	6418.8	6894.8
27.5°	7362.3	7426.7	7187.9	6815.2	6357.8	5968.1	5930.9	5947.8	6137.5	6498.4	7004.9
30°	8106.0	8100.9	7848.5	7416.5	6830.4	6300.2	6166.3	6163.0	6240.9	6537.3	7084.5
32.5°	8698.9	8768.4	8521.1	8050.1	7370.8	6644.1	6329.0	6322.2	6320.5	6605.1	7203.1
35°	9373.2	9383.3	9156.3	8682.0	7955.3	7076.0	6556.0	6522.1	6483.1	6750.8	7364.0
37.5°	9976.3	10023.7	9815.3	9283.4	8529.5	7525.0	6867.7	6845.7	6727.1	7003.2	7621.5
40°	10447.2	10482.8	10357.4	9850.9	9095.4	8009.5	7264.1	7223.4	7079.4	7416.5	7965.4
42.5°	10601.4	10674.2	10723.3	10474.3	9745.9	8583.7	7752.0	7701.1	7591.0	8043.3	8361.8
45°	10613.2	10728.4	10987.6	10999.5	10399.8	9271.5	8321.2	8285.6	8277.1	8846.3	8919.2
47.5°	10523.4	10640.3	11075.7	11311.2	10982.5	9966.1	9142.8	9086.9	9092.0	9839.0	9544.3
50°	10306.6	10445.5	10974.1	11511.1	11438.2	10687.8	10010.1	9991.5	10096.5	10972.4	10193.1
52.5°	9898.3	10066.0	10869.0	11636.4	11777.0	11309.5	10996.1	10943.6	11209.5	12202.2	10902.9
55°	8768.4	9020.8	10484.5	11705.9	12098.9	11904.1	11883.8	11978.6	12331.0	13543.9	11683.9
57.5°	8178.9	8368.6	9649.3	11717.7	12505.5	12595.3	12920.5	12944.2	13560.9	14968.6	12566.5
60°	7857.0	8024.7	9191.9	11639.8	13073.0	13450.8	13981.0	14065.7	14761.9	16511.9	13481.2
62.5°	7575.8	7719.8	8917.5	11370.5	13713.3	14719.6	15354.9	15395.5	16125.7	18216.1	14384.2
65°	6913.4	7077.7	8365.2	11101.1	14265.6	16305.2	17177.7	17130.2	17577.5	19686.5	14950.0
67.5°	6020.7	6229.0	7333.5	10171.1	14538.3	18038.2	19230.8	19171.6	19010.6	20650.5	15112.6
70°	4880.6	4992.4	6013.9	8563.4	13449.1	18947.9	20852.1	20789.4	19898.3	20777.5	14343.5
71°	4199.5	4374.0	5236.3	7606.3	12542.7	18670.1	21060.4	21043.5	19900.0	20426.8	13764.2
72.5°	3278.0	3384.7	4147.0	5893.6	10660.7	17091.3	20545.4	20609.8	19468.0	19452.8	12569.8
75°	2073.5	2120.9	2602.1	3469.4	5849.6	12104.0	17538.5	17713.0	17286.1	15922.4	9347.8
77.5°	1204.5	1265.5	1558.5	2044.7	2527.5	6569.5	12549.5	12739.3	12010.8	8766.7	3826.9
80°	701.3	769.1	1026.6	1187.5	1160.4	2437.7	6390.0	6713.5	5200.7	2214.1	1074.0
82.5°	389.6	435.4	721.7	723.4	618.3	796.2	2010.8	2104.0	1484.0	892.8	438.8
85°	282.9	320.2	465.9	421.8	296.5	342.2	699.6	733.5	599.7	376.1	142.3
87.5°	99.9	142.3	255.8	203.3	81.3	71.2	201.6	164.3	152.5	105.0	32.2
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°	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4
2.5°	5625.9	5629.3	5612.4	5581.9	5551.4	5512.4	5468.4	5434.5	5419.3	5417.6	5415.9
5°	5686.9	5695.4	5631.0	5536.2	5431.1	5302.4	5192.3	5066.9	5034.7	4983.9	4999.1
7.5°	5785.2	5780.1	5653.0	5451.5	5205.8	4933.1	4702.7	4568.9	4429.9	4391.0	4392.7
10°	5925.8	5893.6	5653.0	5278.7	4868.7	4463.8	4142.0	3938.7	3828.6	3737.1	3703.2
12.5°	6074.9	5993.5	5598.8	5036.4	4435.0	3938.7	3593.1	3318.6	3247.5	3173.0	3174.6
15°	6217.2	6081.6	5492.1	4695.9	3967.5	3377.9	3042.5	2878.2	2856.2	2864.6	2862.9
17.5°	6345.9	6144.3	5329.5	4316.4	3422.0	2896.8	2718.9	2730.8	2790.1	2832.5	2837.5
20°	6476.4	6181.6	5087.2	3808.2	2907.0	2605.4	2612.2	2705.4	2795.2	2852.8	2861.2
22.5°	6600.0	6198.5	4802.6	3316.9	2534.3	2481.8	2581.7	2681.7	2769.8	2825.7	2834.1
25°	6681.3	6159.6	4399.4	2803.7	2351.3	2437.7	2542.8	2627.5	2702.0	2759.6	2773.2
27.5°	6703.4	6034.2	3899.7	2388.6	2266.6	2395.4	2491.9	2554.6	2612.2	2666.4	2676.6
30°	6691.5	5849.6	3350.8	2144.7	2217.5	2346.3	2420.8	2466.5	2536.0	2578.3	2586.8
32.5°	6672.9	5634.4	2778.2	2014.2	2176.9	2300.5	2344.6	2385.2	2383.5	2366.6	2378.4
35°	6679.6	5376.9	2314.1	1936.3	2141.3	2266.6	2303.9	2253.1	2107.4	2100.6	2093.8
37.5°	6715.2	5122.8	1977.0	1882.1	2122.6	2261.6	2281.9	2048.1	1919.4	1860.1	1844.8
40°	6806.7	4826.3	1755.0	1841.4	2120.9	2300.5	2181.9	1944.8	1697.4	1582.2	1573.8
42.5°	6928.7	4535.0	1619.5	1816.0	2141.3	2359.8	2141.3	1799.1	1529.7	1462.0	1451.8
45°	7109.9	4201.2	1545.0	1804.2	2171.8	2381.8	2127.7	1692.4	1462.0	1407.8	1407.8
47.5°	7314.9	3882.8	1504.3	1795.7	2210.7	2366.6	2007.4	1658.5	1429.8	1436.6	1468.7
50°	7518.2	3606.6	1473.8	1777.1	2244.6	2358.1	1958.3	1656.8	1438.2	1524.6	1582.2
52.5°	7753.7	3411.8	1436.6	1746.6	2244.6	2303.9	1943.1	1690.7	1462.0	1487.4	1512.8
55°	8038.3	3350.8	1389.1	1680.5	2204.0	2168.4	1934.6	1739.8	1478.9	1419.6	1429.8
57.5°	8414.3	3449.1	1343.4	1597.5	2110.8	2027.8	1931.2	1753.3	1439.9	1390.8	1380.7
60°	8851.4	3643.9	1329.8	1512.8	1983.7	1907.5	1910.9	1714.4	1385.7	1334.9	1343.4
62.5°	9158.0	3760.8	1321.4	1448.4	1844.8	1775.4	1861.8	1666.9	1362.0	1318.0	1326.4
65°	9158.0	3618.5	1243.4	1350.2	1665.3	1616.1	1802.5	1607.7	1331.5	1280.7	1272.2
67.5°	8810.8	3203.4	1124.8	1202.8	1467.0	1434.9	1719.5	1536.5	1285.8	1246.8	1226.5
70°	7906.1	2429.3	975.8	1030.0	1216.3	1245.1	1612.7	1439.9	1209.6	1162.1	1131.6
71°	7508.0	2115.9	913.1	941.9	1119.8	1162.1	1561.9	1399.3	1175.7	1107.9	1053.7
72.5°	6740.6	1782.1	818.2	830.1	957.1	1033.4	1455.2	1321.4	1111.3	1014.7	953.7
75°	5121.1	1301.0	659.0	652.2	708.1	819.9	1231.6	1177.4	974.1	843.6	808.1
77.5°	2212.4	708.1	493.0	498.1	481.1	621.7	969.0	1011.3	835.2	686.1	653.9
80°	670.8	408.3	337.1	343.9	321.9	416.7	682.7	792.8	670.8	533.6	489.6
82.5°	343.9	243.9	230.4	227.0	205.0	235.5	413.3	542.1	479.4	333.7	294.8
85°	149.1	130.4	113.5	110.1	96.6	84.7	147.4	271.0	254.1	186.3	177.9
87.5°	37.3	33.9	22.0	20.3	11.9	1.7	0.0	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)