

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: P454999

Luminaire Tested: **GALN-SA6A-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454999
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-SA6A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20400 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

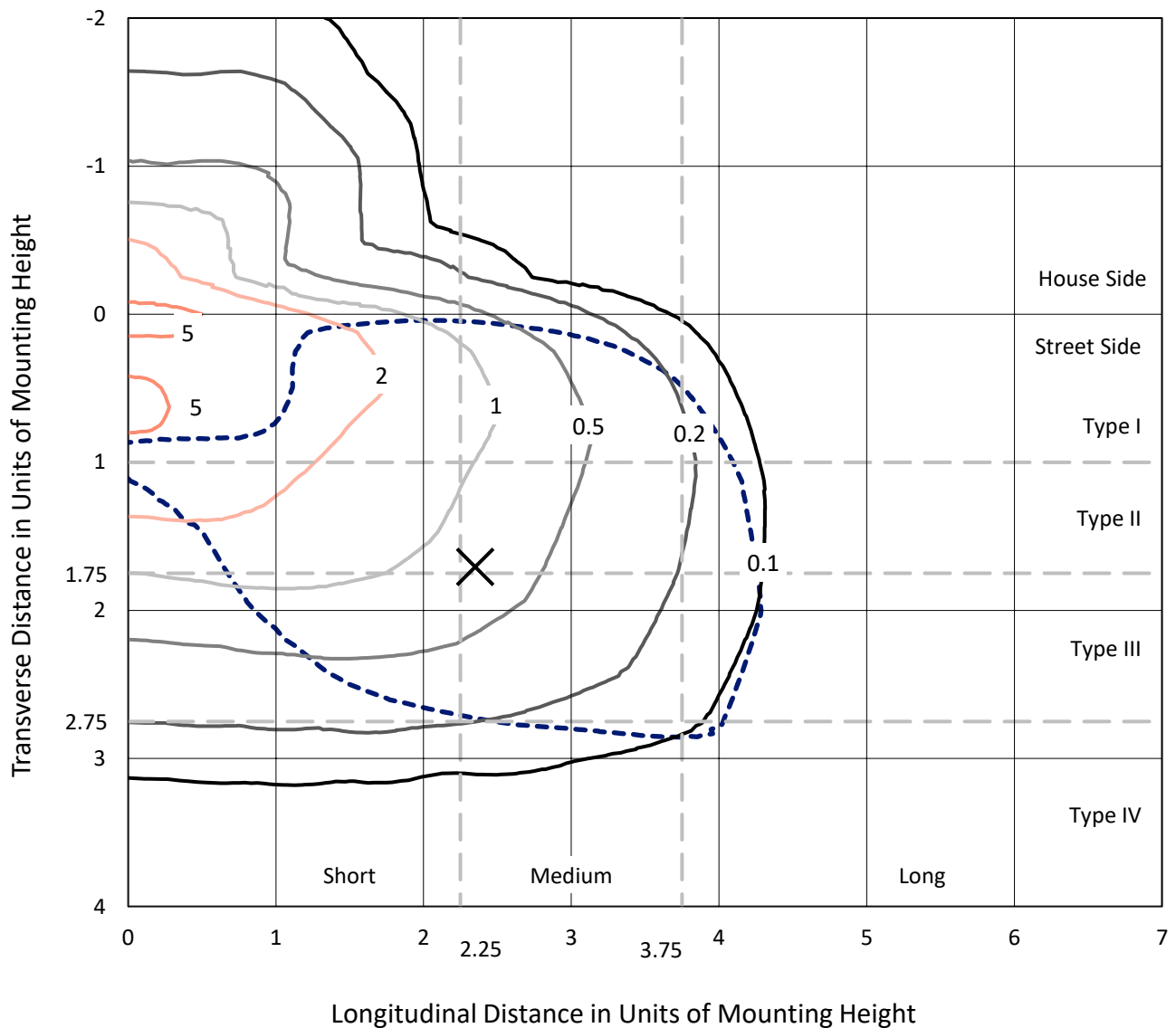
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

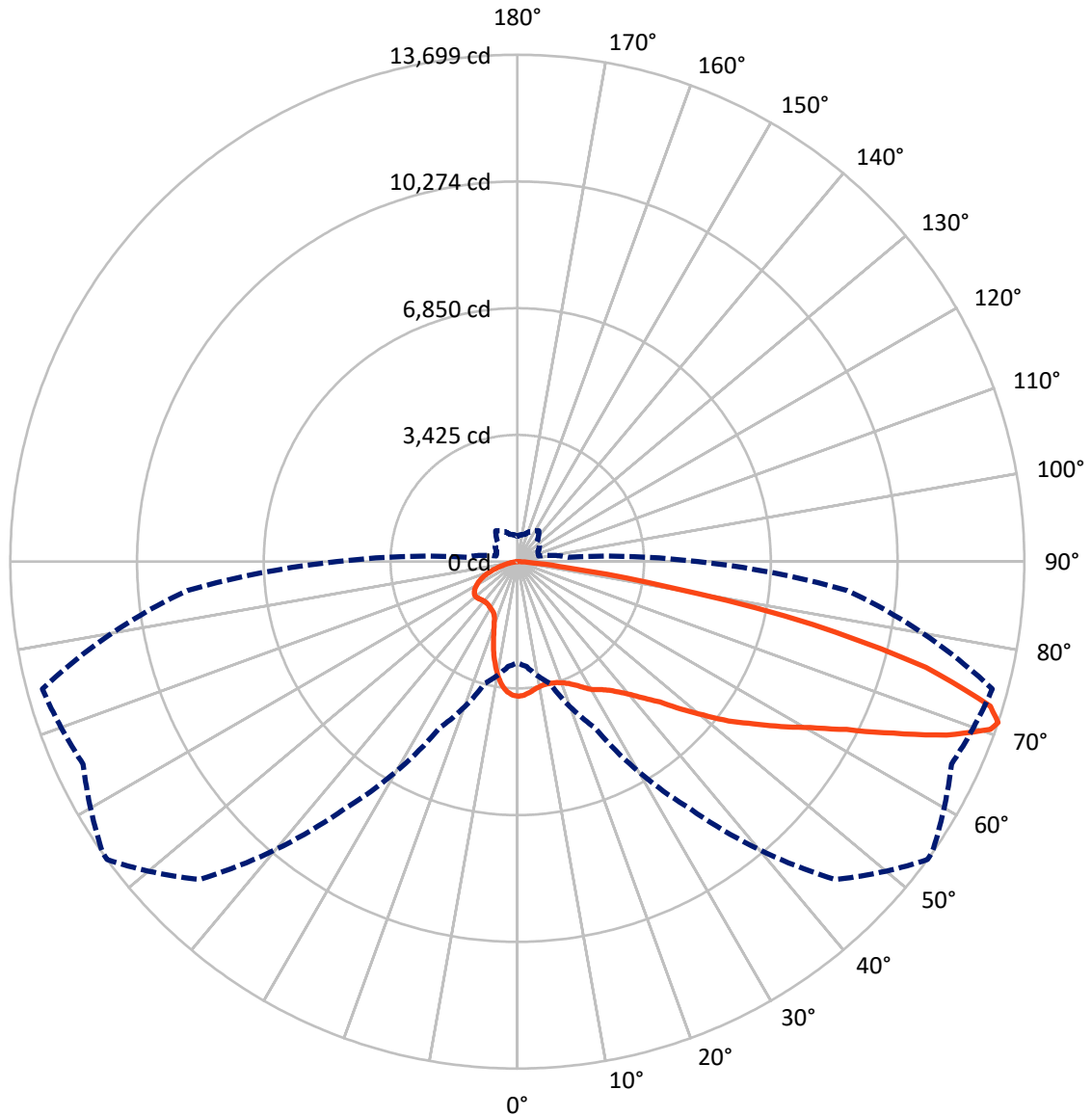
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	3683.1	0.0	3683.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16716.9	0.0	16716.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	20400.0	0.0	20400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	1.6
10°-20°	856.4	4.2
20°-30°	1426.0	7.0
30°-40°	2108.6	10.3
40°-50°	2970.0	14.6
50°-60°	3977.0	19.5
60°-70°	5012.7	24.6
70°-80°	3423.7	16.8
80°-90°	301.1	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°	20400.0	100.0
0°-180°	20400.0	100.0

Coefficient of Utilization



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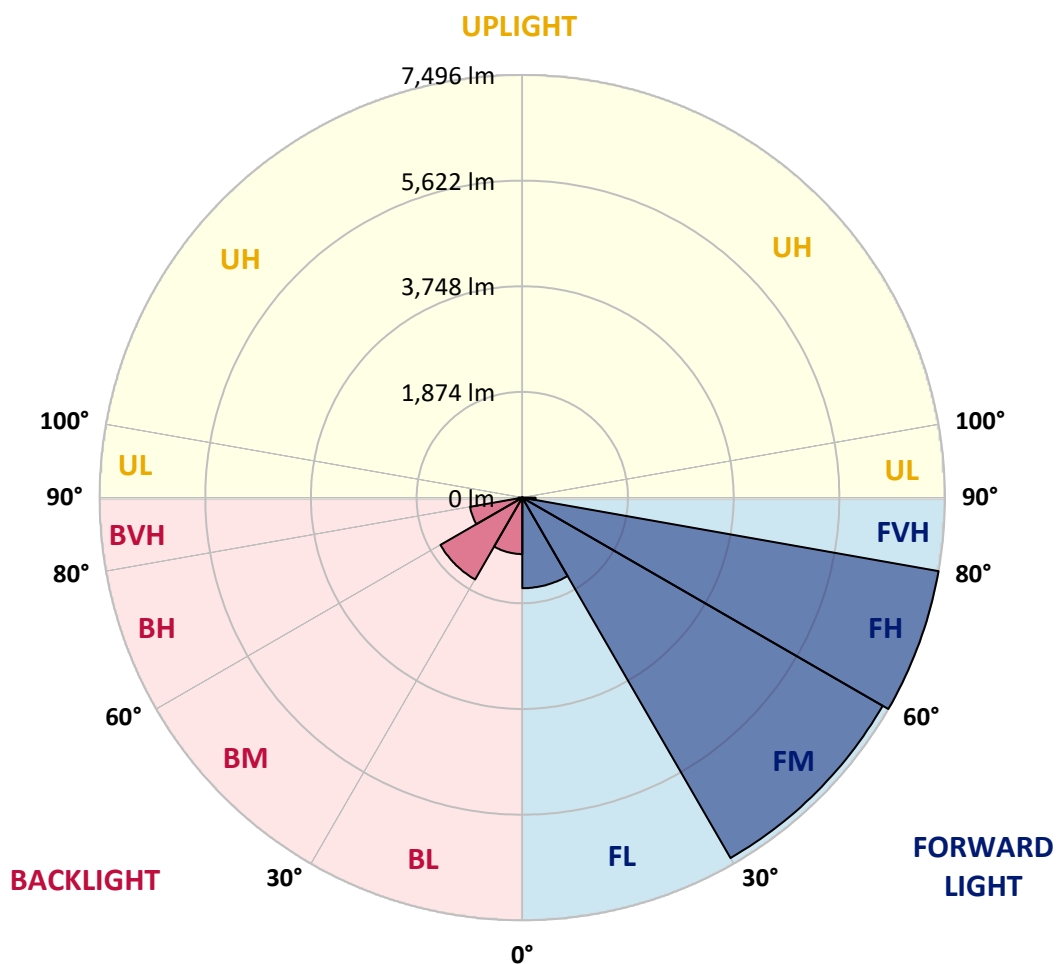
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1605.8	7.9			
FM	(30°-60°)	7380.0	36.2			
FH	(60°-80°)	7495.8	36.7			G3/7500
FVH	(80°-90°)	235.3	1.2			G3/500
BL	(0°-30°)	1001.0	4.9	B3/2500		
BM	(30°-60°)	1675.7	8.2	B2/2500		
BH	(60°-80°)	940.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	65.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7
2.5°	3516.2	3532.8	3537.2	3548.2	3571.3	3590.1	3608.8	3606.6	3633.1	3644.1	3654.0
5°	3359.8	3364.2	3380.7	3402.7	3443.5	3495.3	3546.0	3547.1	3612.1	3663.9	3689.2
7.5°	3245.2	3259.5	3270.5	3293.7	3336.6	3392.8	3473.3	3479.9	3595.6	3698.1	3752.1
10°	3170.2	3186.8	3198.9	3227.5	3270.5	3333.3	3420.4	3432.5	3583.5	3752.1	3846.8
12.5°	3101.9	3118.5	3129.5	3166.9	3223.1	3300.3	3398.3	3412.7	3587.9	3814.9	3950.4
15°	3143.8	3157.0	3152.6	3163.6	3201.1	3289.2	3407.2	3421.5	3604.4	3875.5	4052.9
17.5°	3330.0	3341.0	3304.7	3262.8	3245.2	3310.2	3434.7	3450.1	3637.5	3938.3	4157.6
20°	3604.4	3634.2	3554.8	3461.2	3376.3	3385.1	3492.0	3508.5	3683.7	4001.1	4264.5
22.5°	3961.4	3983.5	3886.5	3732.2	3575.8	3495.3	3578.0	3587.9	3753.2	4082.6	4381.3
25°	4381.3	4394.5	4260.0	4061.7	3835.8	3683.7	3695.9	3713.5	3867.8	4175.2	4484.8
27.5°	4789.0	4830.8	4675.5	4433.0	4135.5	3882.1	3857.8	3868.9	3992.3	4227.0	4556.5
30°	5272.7	5269.4	5105.2	4824.2	4443.0	4098.1	4011.0	4008.8	4059.5	4252.3	4608.3
32.5°	5658.4	5703.6	5542.7	5236.4	4794.5	4321.8	4116.8	4112.4	4111.3	4296.4	4685.4
35°	6097.0	6103.6	5955.9	5647.4	5174.6	4602.7	4264.5	4242.4	4217.1	4391.2	4790.1
37.5°	6489.2	6520.1	6384.6	6038.6	5548.2	4894.8	4467.2	4452.9	4375.7	4555.4	4957.6
40°	6795.6	6818.7	6737.2	6407.7	5916.2	5209.9	4725.1	4698.6	4604.9	4824.2	5181.3
42.5°	6895.9	6943.2	6975.2	6813.2	6339.4	5583.5	5042.4	5009.4	4937.7	5231.9	5439.1
45°	6903.6	6978.5	7147.1	7154.8	6764.7	6030.8	5412.7	5389.5	5384.0	5754.3	5801.6
47.5°	6845.2	6921.2	7204.4	7357.6	7143.8	6482.6	5947.1	5910.7	5914.0	6400.0	6208.3
50°	6704.1	6794.5	7138.3	7487.6	7440.2	6952.1	6511.3	6499.2	6567.5	7137.2	6630.3
52.5°	6438.6	6547.6	7070.0	7569.1	7660.6	7356.5	7152.6	7118.4	7291.4	7937.2	7092.0
55°	5703.6	5867.8	6819.8	7614.3	7870.0	7743.2	7730.0	7791.7	8020.9	8809.9	7600.0
57.5°	5320.1	5443.5	6276.6	7622.0	8134.4	8192.8	8404.4	8419.8	8820.9	9736.6	8174.1
60°	5110.7	5219.8	5979.1	7571.3	8503.6	8749.3	9094.2	9149.3	9602.2	10740.5	8769.1
62.5°	4927.8	5021.5	5800.5	7396.1	8920.1	9574.6	9987.9	10014.3	10489.2	11849.0	9356.5
65°	4497.0	4603.8	5441.3	7220.9	9279.3	10606.0	11173.5	11142.7	11433.6	12805.5	9724.5
67.5°	3916.2	4051.8	4770.2	6616.0	9456.7	11733.3	12509.1	12470.5	12365.8	13432.5	9830.3
70°	3174.6	3247.4	3911.8	5570.2	8748.2	12325.0	13563.6	13522.8	12943.2	13515.1	9330.0
71°	2731.7	2845.2	3406.1	4947.6	8158.7	12144.3	13699.1	13688.1	12944.3	13287.0	8953.1
72.5°	2132.2	2201.6	2697.5	3833.6	6934.4	11117.3	13364.2	13406.0	12663.3	12653.4	8176.3
75°	1348.8	1379.6	1692.6	2256.7	3805.0	7873.3	11408.2	11521.7	11244.1	10357.0	6080.4
77.5°	783.5	823.1	1013.8	1330.0	1644.1	4273.3	8163.1	8286.5	7812.7	5702.5	2489.3
80°	456.2	500.3	667.8	772.5	754.8	1585.7	4156.5	4366.9	3382.9	1440.2	698.6
82.5°	253.4	283.2	469.4	470.5	402.2	517.9	1308.0	1368.6	965.3	580.7	285.4
85°	184.0	208.3	303.0	274.4	192.8	222.6	455.1	477.1	390.1	244.6	92.6
87.5°	65.0	92.6	166.4	132.2	52.9	46.3	131.1	106.9	99.2	68.3	20.9
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°	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7
2.5°	3659.5	3661.7	3650.7	3630.8	3611.0	3585.7	3557.0	3535.0	3525.1	3524.0	3522.9
5°	3699.2	3704.7	3662.8	3601.1	3532.8	3449.0	3377.4	3295.9	3274.9	3241.9	3251.8
7.5°	3763.1	3759.8	3677.1	3546.0	3386.2	3208.8	3058.9	2971.9	2881.5	2856.2	2857.3
10°	3854.5	3833.6	3677.1	3433.6	3166.9	2903.6	2694.2	2562.0	2490.4	2430.8	2408.8
12.5°	3951.5	3898.6	3641.9	3276.0	2884.8	2562.0	2337.2	2158.7	2112.4	2063.9	2065.0
15°	4044.1	3955.9	3572.4	3054.5	2580.7	2197.2	1979.1	1872.2	1857.8	1863.4	1862.3
17.5°	4127.8	3996.7	3466.7	2807.7	2225.9	1884.3	1768.6	1776.3	1814.9	1842.4	1845.7
20°	4212.7	4020.9	3309.1	2477.1	1890.9	1694.8	1699.2	1759.8	1818.2	1855.6	1861.2
22.5°	4293.1	4031.9	3124.0	2157.6	1648.5	1614.3	1679.3	1744.3	1801.6	1838.0	1843.5
25°	4346.0	4006.6	2861.7	1823.7	1529.5	1585.7	1654.0	1709.1	1757.6	1795.0	1803.9
27.5°	4360.3	3925.1	2536.6	1553.7	1474.4	1558.1	1620.9	1661.7	1699.2	1734.4	1741.0
30°	4352.6	3805.0	2179.6	1395.0	1442.4	1526.2	1574.7	1604.4	1649.6	1677.1	1682.6
32.5°	4340.5	3665.0	1807.2	1310.2	1416.0	1496.4	1525.1	1551.5	1550.4	1539.4	1547.1
35°	4344.9	3497.5	1505.2	1259.5	1392.8	1474.4	1498.6	1465.6	1370.8	1366.4	1362.0
37.5°	4368.0	3332.2	1285.9	1224.2	1380.7	1471.1	1484.3	1332.2	1248.5	1209.9	1200.0
40°	4427.5	3139.4	1141.6	1197.8	1379.6	1496.4	1419.3	1265.0	1104.1	1029.2	1023.7
42.5°	4506.9	2949.9	1053.4	1181.3	1392.8	1535.0	1392.8	1170.2	995.0	951.0	944.4
45°	4624.8	2732.8	1005.0	1173.6	1412.7	1549.3	1384.0	1100.8	951.0	915.7	915.7
47.5°	4758.1	2525.6	978.5	1168.0	1438.0	1539.4	1305.8	1078.8	930.0	934.4	955.4
50°	4890.3	2346.0	958.7	1155.9	1460.1	1533.9	1273.8	1077.7	935.5	991.7	1029.2
52.5°	5043.5	2219.3	934.4	1136.1	1460.1	1498.6	1263.9	1099.7	951.0	967.5	984.0
55°	5228.6	2179.6	903.6	1093.1	1433.6	1410.5	1258.4	1131.7	962.0	923.4	930.0
57.5°	5473.3	2243.5	873.8	1039.1	1373.0	1319.0	1256.2	1140.5	936.6	904.7	898.1
60°	5757.6	2370.2	865.0	984.0	1290.4	1240.8	1243.0	1115.1	901.4	868.3	873.8
62.5°	5957.0	2446.3	859.5	942.1	1200.0	1154.8	1211.0	1084.3	885.9	857.3	862.8
65°	5957.0	2353.7	808.8	878.2	1083.2	1051.2	1172.4	1045.7	866.1	833.1	827.5
67.5°	5731.1	2083.7	731.7	782.4	954.3	933.3	1118.5	999.4	836.4	811.0	797.8
70°	5142.7	1580.2	634.7	670.0	791.2	809.9	1049.0	936.6	786.8	755.9	736.1
71°	4883.7	1376.3	593.9	612.7	728.4	755.9	1016.0	910.2	764.7	720.7	685.4
72.5°	4384.6	1159.2	532.2	539.9	622.6	672.2	946.6	859.5	722.9	660.1	620.4
75°	3331.1	846.3	428.6	424.2	460.6	533.3	801.1	765.8	633.6	548.8	525.6
77.5°	1439.1	460.6	320.7	324.0	312.9	404.4	630.3	657.8	543.2	446.3	425.3
80°	436.4	265.6	219.3	223.7	209.4	271.1	444.1	515.7	436.4	347.1	318.5
82.5°	223.7	158.7	149.9	147.7	133.3	153.2	268.9	352.6	311.8	217.1	191.7
85°	97.0	84.8	73.8	71.6	62.8	55.1	95.9	176.3	165.3	121.2	115.7
87.5°	24.2	22.0	14.3	13.2	7.7	1.1	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)