

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: P455314

Luminaire Tested: **GALN-SA6C-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35533 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

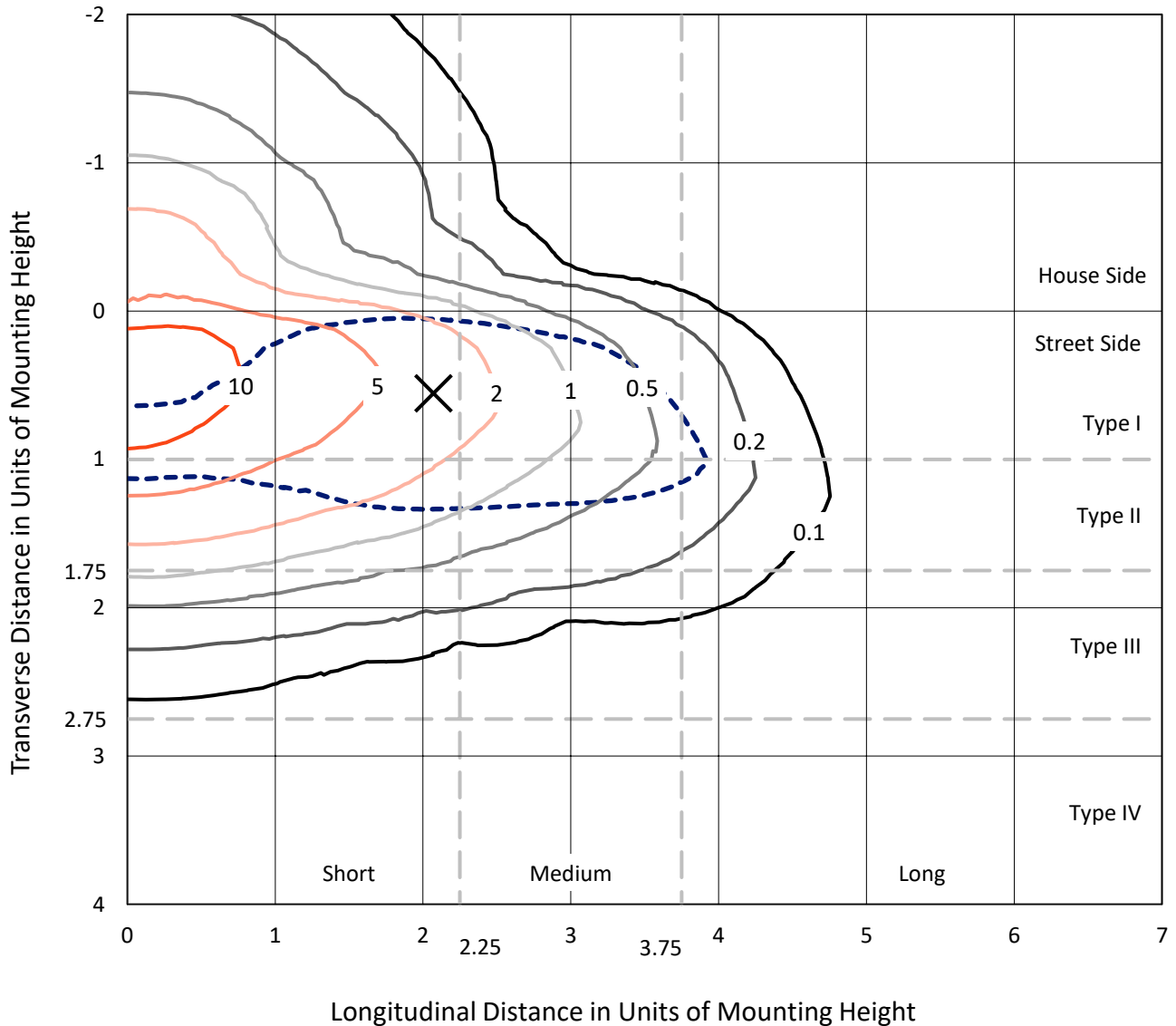
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

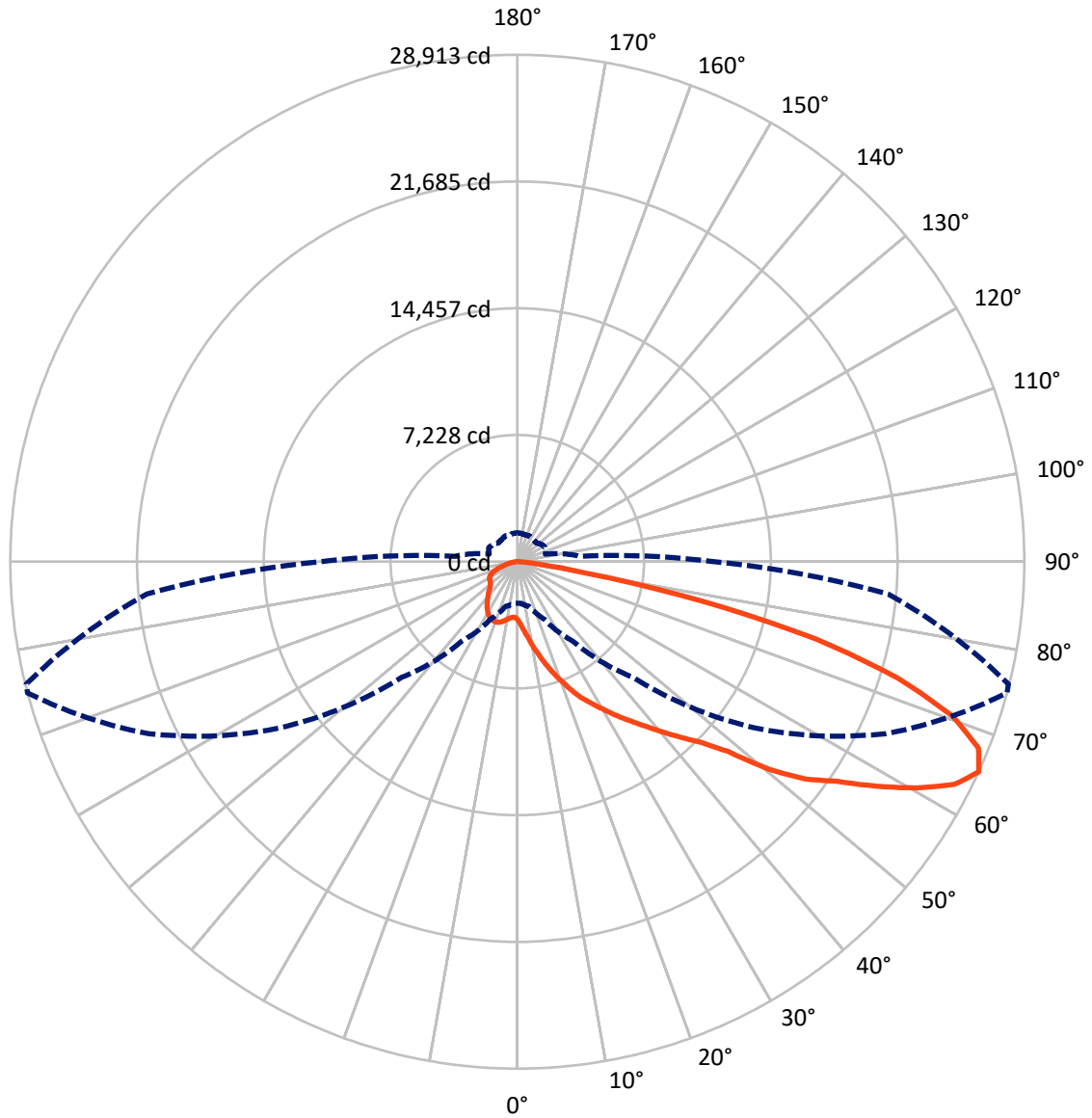
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5973.5	0.0	5973.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29559.4	0.0	29559.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	35533.0	0.0	35533.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.1	1.1
10°-20°	1571.1	4.4
20°-30°	3034.9	8.5
30°-40°	4929.6	13.9
40°-50°	6781.1	19.1
50°-60°	8006.1	22.5
60°-70°	7014.7	19.7
70°-80°	3348.9	9.4
80°-90°	445.6	1.3
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°	35533.0	100.0
0°-180°	35533.0	100.0



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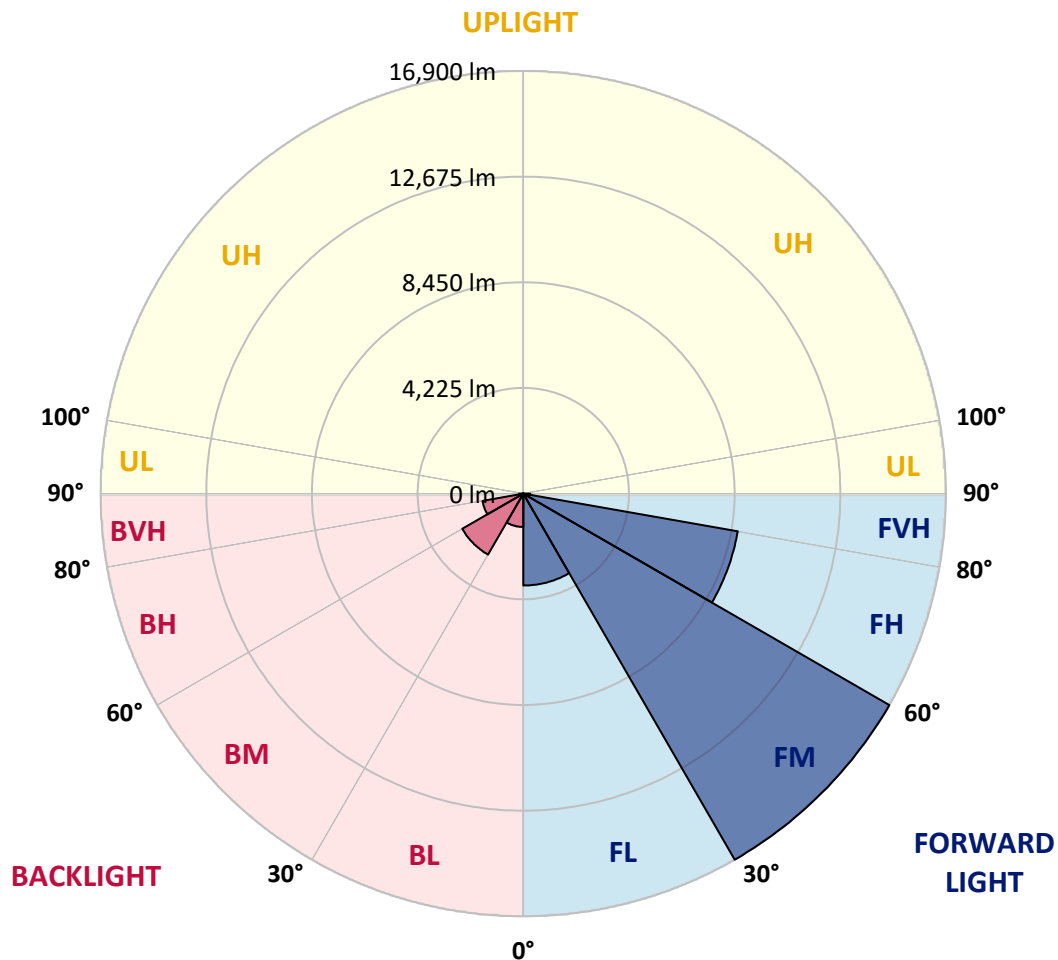
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3673.5	10.3			
FM	(30°-60°)	16900.2	47.6			
FH	(60°-80°)	8707.2	24.5			G4/12000
FVH	(80°-90°)	278.5	0.8			G3/500
BL	(0°-30°)	1333.6	3.8	B3/2500		
BM	(30°-60°)	2816.5	7.9	B3/5000		
BH	(60°-80°)	1656.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	167.1	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	4386.5	4357.6	4326.8	4242.0	4151.4	4049.3	3902.8	3762.1	3575.1	3569.4	3430.6
5°	5602.7	5583.4	5446.5	5367.5	5157.5	4878.0	4640.9	4272.8	3931.7	3891.2	3621.4
7.5°	6720.5	6645.3	6593.3	6450.7	6242.5	5884.0	5425.3	4928.1	4357.6	4303.7	3856.5
10°	7562.7	7555.0	7528.0	7404.7	7248.6	6892.0	6383.2	5670.1	4897.3	4791.3	4141.8
12.5°	8193.0	8198.7	8194.9	8193.0	8081.2	7778.6	7227.4	6475.7	5442.7	5367.5	4471.3
15°	8607.3	8665.1	8688.3	8784.6	8794.3	8591.9	8117.8	7254.4	6057.5	5945.7	4826.0
17.5°	8881.0	8909.9	9017.8	9181.7	9314.6	9278.0	8855.9	7975.2	6685.8	6498.9	5194.1
20°	9143.1	9193.2	9276.1	9499.7	9734.8	9842.7	9545.9	8713.3	7308.3	7188.8	5600.7
22.5°	9688.5	9759.8	9788.8	9902.5	10102.9	10293.7	10158.8	9420.6	7990.6	7828.7	6032.4
25°	10611.7	10686.9	10605.9	10578.9	10644.5	10738.9	10710.0	10087.5	8634.3	8403.0	6441.0
27.5°	11814.3	11824.0	11665.9	11515.6	11353.7	11305.5	11216.9	10679.2	9193.2	9000.5	6851.6
30°	13105.6	13059.4	12797.3	12525.5	12251.8	11982.0	11727.6	11249.6	9815.7	9594.1	7254.4
32.5°	14304.4	14279.4	13988.3	13566.3	13103.7	12849.3	12334.7	11825.9	10482.6	10268.7	7668.7
35°	15202.5	15239.2	14919.2	14458.6	13953.7	13728.2	13078.7	12431.1	11172.6	10939.4	8119.7
37.5°	15840.5	15821.2	15537.9	15138.9	14695.7	14499.1	13947.9	13092.1	11914.6	11691.0	8613.1
40°	16067.9	16056.3	15846.3	15555.2	15273.9	15204.5	14857.6	13805.2	12764.5	12502.4	9206.7
42.5°	15923.4	15948.4	15809.6	15730.6	15678.6	15728.7	15761.5	14740.0	13691.5	13450.6	9850.4
45°	15480.1	15466.6	15447.3	15576.4	15869.4	16199.0	16655.7	15622.7	14699.5	14506.8	10713.9
47.5°	14688.0	14784.3	14832.5	15189.0	15828.9	16609.5	17684.9	16806.1	16162.3	15994.7	12030.2
50°	13579.8	13656.8	13942.1	14576.2	15530.2	16763.7	18691.0	18741.1	18602.3	18288.1	13460.3
52.5°	11849.0	11968.5	12556.4	13718.5	14917.3	16700.1	19300.0	20400.5	20583.6	20348.4	14869.1
55°	9912.1	10079.8	10700.4	12224.9	14073.1	16353.1	19720.1	21362.2	22092.6	21874.9	16225.9
57.5°	8015.6	8193.0	8830.9	10307.2	12600.7	15586.1	19995.7	22433.8	24147.1	23863.8	17914.3
60°	6007.4	6192.4	6739.8	8260.4	10503.8	14086.6	19808.8	23362.7	26199.7	26078.3	19604.5
62.5°	3875.8	4080.1	4556.1	5814.7	8073.5	12037.9	18808.5	23875.4	27976.7	27830.2	20838.0
65°	2360.9	2384.1	2646.2	3609.8	5525.6	9320.4	16520.8	23195.1	28913.4	28869.0	21213.8
67.5°	1526.4	1563.0	1682.5	2162.4	3313.0	6473.8	13209.7	20949.7	28366.0	28350.6	20437.1
70°	1289.4	1300.9	1354.9	1459.0	1925.4	3925.9	9276.1	17370.8	26286.4	26286.4	18569.5
72.5°	1152.5	1167.9	1187.2	1220.0	1374.2	2224.1	5535.2	13521.9	22695.9	22846.2	15805.8
75°	1046.5	1042.7	1054.2	1060.0	1171.8	1453.2	2862.0	10000.8	17557.7	17257.0	11446.2
77.5°	896.2	902.0	896.2	921.2	1035.0	1106.3	1453.2	6710.9	10640.6	10251.3	5745.3
80°	736.2	745.9	755.5	770.9	884.6	840.3	873.1	3058.6	3935.5	3852.7	1775.0
82.5°	553.1	566.6	582.0	618.7	695.8	555.1	551.2	1306.7	1420.4	1300.9	653.4
85°	223.6	264.0	399.0	435.6	437.5	304.5	339.2	545.4	580.1	566.6	256.3
87.5°	52.0	61.7	129.1	194.7	179.2	113.7	125.3	177.3	202.4	186.9	86.7
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°	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	3367.0	3299.5	3183.9	3095.2	3031.6	2975.8	2941.1	2919.9	2912.1	2910.2	2912.1
5°	3480.7	3361.2	3178.1	3062.5	2998.9	2962.3	2941.1	2939.1	2941.1	2943.0	2937.2
7.5°	3636.8	3465.3	3226.3	3118.4	3070.2	3043.2	3033.6	3029.7	3031.6	3029.7	3029.7
10°	3845.0	3609.8	3320.7	3209.0	3168.5	3137.6	3122.2	3112.6	3104.9	3097.2	3093.3
12.5°	4074.3	3769.8	3422.9	3315.0	3257.1	3209.0	3174.3	3149.2	3131.9	3114.5	3110.7
15°	4330.6	3939.4	3536.6	3386.3	3303.4	3232.1	3172.3	3131.9	3101.0	3076.0	3074.0
17.5°	4575.4	4099.4	3613.7	3419.0	3297.6	3197.4	3118.4	3062.5	3023.9	2991.2	2987.3
20°	4837.5	4251.6	3648.4	3397.8	3239.8	3118.4	3014.3	2946.8	2902.5	2865.9	2860.1
22.5°	5101.6	4380.8	3644.5	3330.4	3139.6	2997.0	2887.1	2815.8	2763.7	2727.1	2713.6
25°	5354.0	4484.8	3596.3	3222.4	3000.8	2852.4	2740.6	2675.1	2628.8	2584.5	2584.5
27.5°	5581.5	4546.5	3505.8	3091.4	2858.2	2702.1	2613.4	2553.7	2511.3	2482.4	2465.0
30°	5805.0	4575.4	3382.4	2925.6	2707.9	2574.9	2503.6	2468.9	2430.3	2397.6	2393.7
32.5°	6005.5	4569.6	3228.2	2763.7	2565.2	2470.8	2441.9	2414.9	2374.4	2328.2	2316.6
35°	6200.1	4531.1	3045.1	2586.4	2445.7	2409.1	2416.8	2378.3	2305.1	2247.2	2237.6
37.5°	6412.1	4461.7	2844.7	2441.9	2345.5	2380.2	2399.5	2314.7	2195.2	2104.6	2083.4
40°	6656.9	4382.7	2636.5	2297.3	2266.5	2353.2	2353.2	2197.1	2033.3	1977.4	1962.0
42.5°	6944.1	4317.2	2463.1	2175.9	2201.0	2287.7	2278.1	2041.0	1973.6	1944.6	1936.9
45°	7398.9	4294.0	2283.9	2069.9	2147.0	2210.6	2131.6	1987.0	1948.5	1925.4	1917.7
47.5°	8117.8	4321.0	2125.8	1990.9	2085.3	2133.5	1967.8	1950.4	1923.4	1890.7	1886.8
50°	8784.6	4296.0	2014.0	1946.6	2031.4	2041.0	1900.3	1906.1	1890.7	1854.1	1846.4
52.5°	9330.1	4216.9	1942.7	1923.4	1985.1	1879.1	1836.7	1857.9	1852.1	1805.9	1798.2
55°	9929.4	4168.7	1908.0	1923.4	1954.3	1738.4	1777.0	1807.8	1800.1	1767.3	1765.4
57.5°	10656.0	4178.4	1883.0	1929.2	1923.4	1667.1	1717.2	1753.8	1751.9	1742.3	1742.3
60°	11400.0	4182.2	1844.4	1927.3	1886.8	1611.2	1655.6	1707.6	1711.4	1717.2	1717.2
62.5°	11646.7	4014.6	1769.3	1892.6	1805.9	1557.3	1597.7	1669.0	1665.2	1680.6	1682.5
65°	11186.0	3550.1	1657.5	1813.6	1701.8	1518.7	1553.4	1618.9	1597.7	1638.2	1645.9
67.5°	10181.9	2937.2	1484.0	1671.0	1586.2	1478.2	1524.5	1549.5	1511.0	1590.0	1591.9
70°	8800.1	2293.5	1264.3	1468.6	1455.1	1435.8	1501.4	1462.8	1408.9	1505.2	1485.9
72.5°	7358.4	1751.9	1009.9	1200.7	1279.7	1372.2	1460.9	1351.0	1275.9	1304.8	1270.1
75°	5527.5	1295.1	811.4	940.5	1065.8	1281.7	1424.3	1216.1	1100.5	1073.5	1065.8
77.5°	2817.7	846.1	607.1	703.5	799.8	1158.3	1374.2	1058.1	911.6	869.2	849.9
80°	1006.1	526.2	427.9	485.7	539.6	996.4	1200.7	875.0	707.3	699.6	707.3
82.5°	466.4	339.2	287.2	318.0	319.9	664.9	915.5	653.4	537.7	817.2	690.0
85°	200.4	169.6	161.9	158.0	146.5	296.8	514.6	350.8	547.4	244.8	225.5
87.5°	59.7	67.5	59.7	44.3	32.8	32.8	52.0	19.3	13.5	9.6	9.6
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)