

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: P455544

Luminaire Tested: **GALN-SA6D-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38583 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368
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

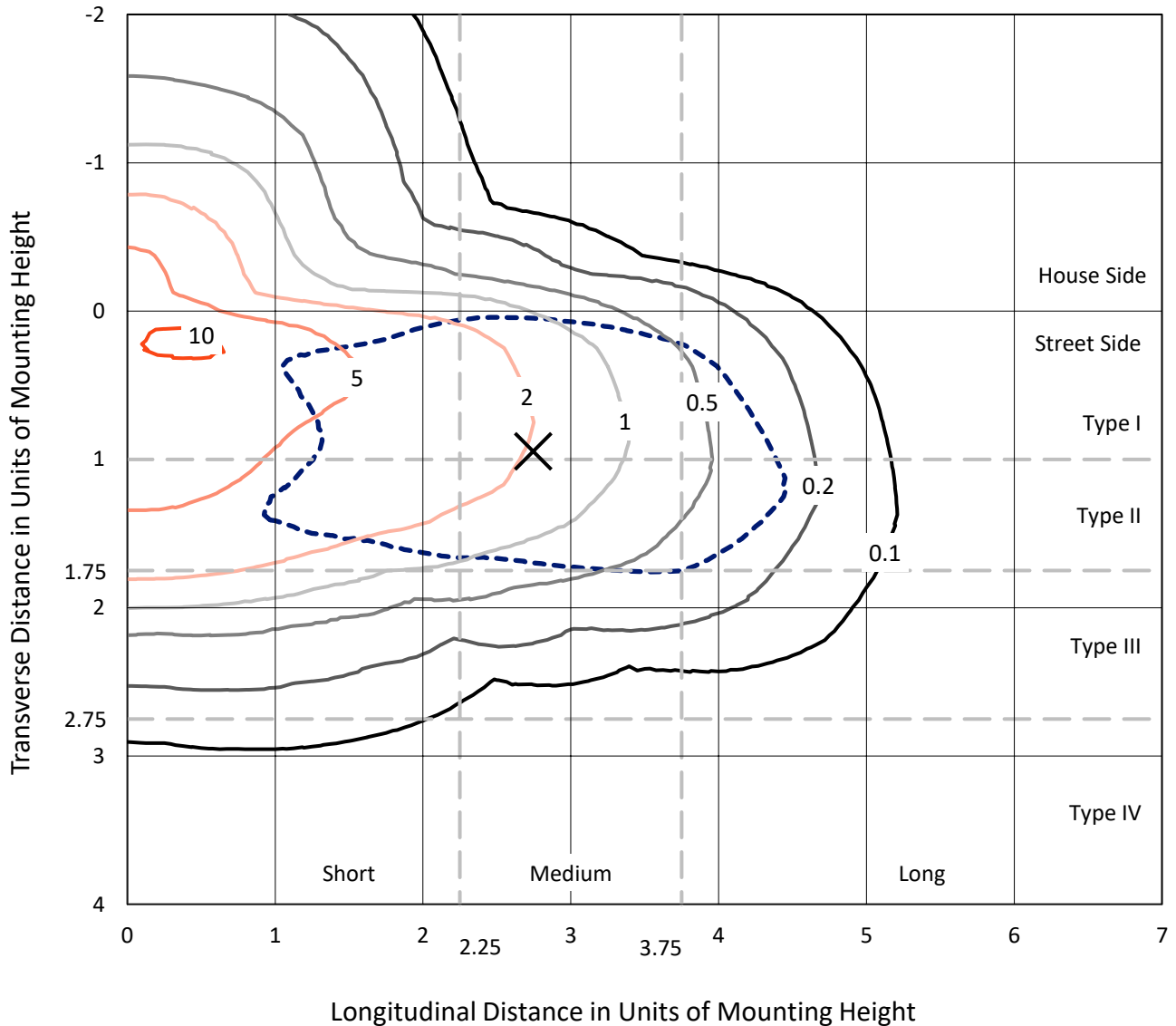




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Iso-Footcandle Lines of Horizontal Illumination

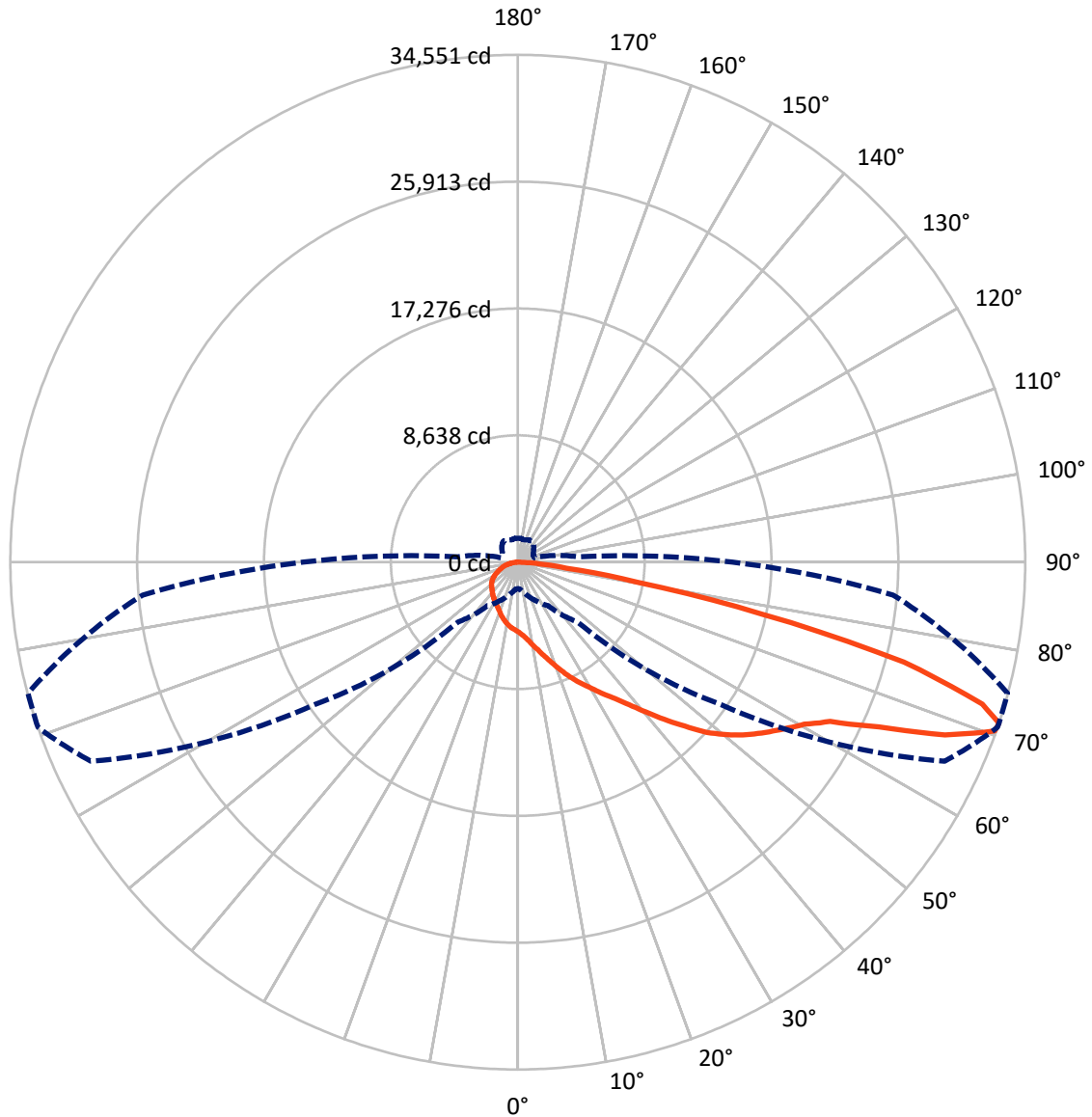
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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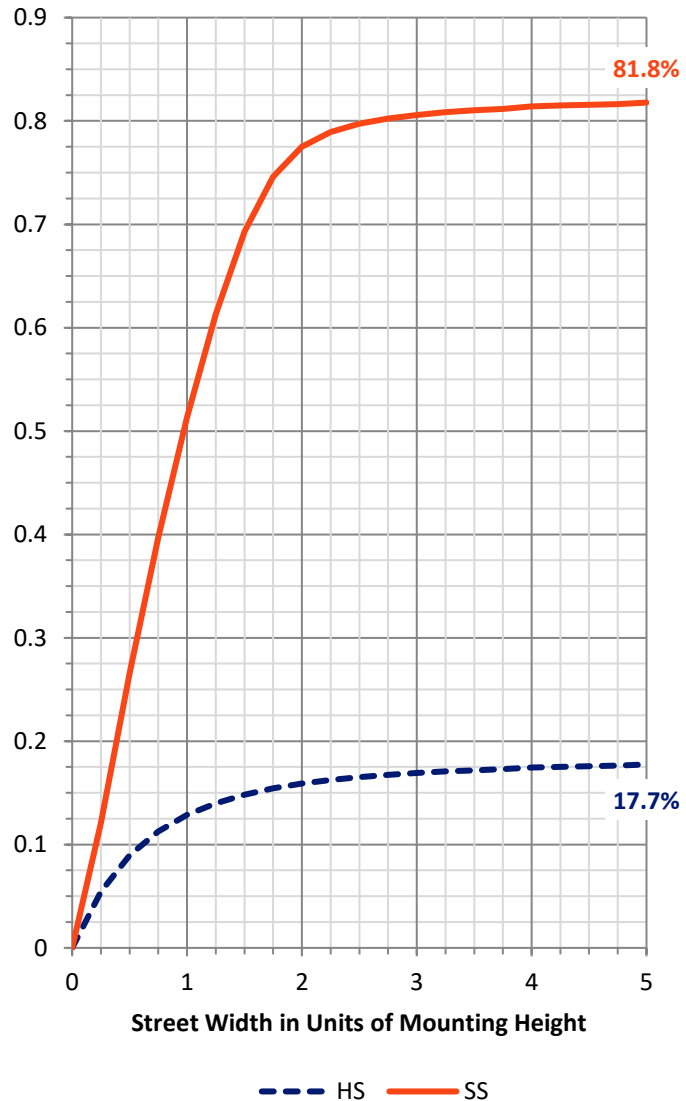
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6939.0	0.0	6939.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	31643.9	0.0	31643.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	38583.0	0.0	38583.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	1.2
10°-20°	1544.7	4.0
20°-30°	2699.5	7.0
30°-40°	4015.2	10.4
40°-50°	5915.9	15.3
50°-60°	8282.3	21.5
60°-70°	9263.5	24.0
70°-80°	5658.5	14.7
80°-90°	727.9	1.9
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°	38583.0	100.0
0°-180°	38583.0	100.0



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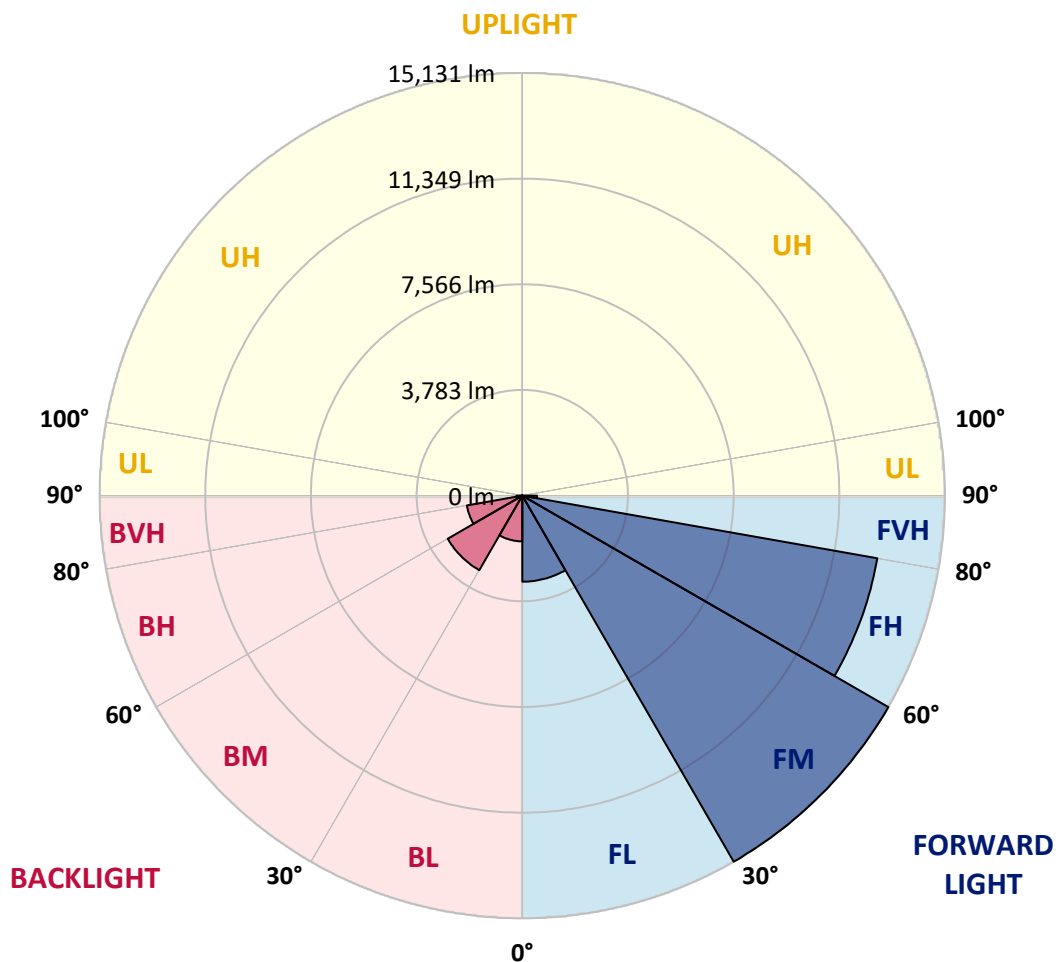
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3082.8	8.0			
FM	(30°-60°)	15131.5	39.2			
FH	(60°-80°)	12905.9	33.4			G5
FVH	(80°-90°)	523.8	1.4			G4/750
BL	(0°-30°)	1636.9	4.2	B3/2500		
BM	(30°-60°)	3081.9	8.0	B3/5000		
BH	(60°-80°)	2016.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	204.1	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3
2.5°	5257.0	5231.5	5233.6	5197.6	5150.9	5100.0	5027.9	4964.3	4913.4	4883.7	4796.8
5°	5825.3	5799.8	5768.0	5689.6	5655.6	5530.5	5371.5	5227.3	5117.0	5055.5	4881.6
7.5°	6285.5	6279.1	6270.6	6226.1	6139.1	5965.3	5829.5	5579.3	5416.0	5299.4	5002.5
10°	6569.6	6580.2	6586.6	6595.1	6559.0	6467.8	6281.2	5965.3	5757.4	5609.0	5159.4
12.5°	6713.8	6724.4	6760.5	6838.9	6887.7	6877.1	6724.4	6414.8	6128.5	5933.4	5326.9
15°	6802.9	6819.9	6883.5	6987.4	7150.7	7254.6	7180.4	6894.1	6580.2	6349.1	5526.3
17.5°	6900.4	6919.5	6989.5	7137.9	7352.1	7576.9	7657.5	7411.5	7070.1	6794.4	5748.9
20°	6955.6	6981.0	7080.7	7275.8	7526.0	7852.6	8119.8	7990.4	7617.2	7311.8	6005.5
22.5°	7044.6	7065.8	7150.7	7358.5	7657.5	8066.8	8582.1	8554.5	8225.8	7831.4	6287.6
25°	7286.4	7320.3	7362.7	7487.8	7776.2	8285.2	8965.9	9156.8	8815.3	8374.3	6546.3
27.5°	7742.3	7769.9	7767.8	7784.7	7948.0	8473.9	9298.8	9752.6	9400.6	8923.5	6796.5
30°	8261.9	8272.5	8280.9	8242.8	8278.8	8666.9	9604.2	10342.2	9990.2	9487.6	7014.9
32.5°	8893.8	8915.0	8842.9	8745.4	8715.7	8953.2	9856.6	10931.7	10687.8	10060.1	7231.2
35°	9640.3	9695.4	9549.1	9377.3	9256.4	9364.6	10195.8	11533.9	11402.5	10791.7	7517.5
37.5°	10492.7	10560.6	10424.9	10087.7	9915.9	9945.6	10639.1	12278.3	12305.8	11625.1	7943.8
40°	11190.4	11279.5	11283.7	10806.6	10545.7	10579.7	11201.0	13079.9	13395.8	12655.7	8446.4
42.5°	11650.6	11737.5	11828.7	11548.8	11275.2	11468.2	11856.3	13949.3	14621.5	13906.9	9148.3
45°	12155.3	12233.7	12284.6	12157.4	12004.7	12505.2	12647.3	14873.9	15927.8	15304.4	9915.9
47.5°	12740.6	12827.5	12876.3	12755.4	12698.2	13414.9	13499.7	15737.0	17323.2	16661.6	10764.2
50°	13521.0	13586.7	13561.2	13484.9	13472.2	14112.6	14318.3	16544.9	18474.7	18122.7	11644.2
52.5°	14492.2	14570.6	14598.2	14490.1	14441.3	14610.9	14977.8	17280.8	19522.3	19378.1	12583.6
55°	15079.6	15204.7	15624.6	15794.2	15910.9	15255.6	15688.2	18093.0	20461.7	20701.3	13593.1
57.5°	14326.8	14487.9	15427.4	16275.6	17372.0	16867.3	16695.5	18941.2	21401.1	21984.3	14801.8
60°	12490.3	12526.4	13737.3	15300.1	17505.6	18939.1	18797.0	20289.9	22419.0	23277.8	16394.4
62.5°	8664.8	8741.1	10172.5	12666.4	15855.7	19685.5	22372.3	22618.3	23878.0	25213.9	18729.1
65°	4468.1	4368.4	5672.6	7960.7	11953.8	17912.7	25269.1	26899.8	27041.9	28242.2	22016.1
67.5°	2750.4	2795.0	3405.7	4648.4	7068.0	13018.4	24965.8	32131.3	31382.8	31959.6	25067.6
70°	2065.5	2120.6	2540.5	3180.9	4309.1	7443.3	20077.9	33399.5	34444.9	34296.5	25996.4
71°	1796.1	1853.4	2290.2	2894.6	3619.9	5744.7	16916.0	32072.0	34551.0	34525.5	25646.5
72.5°	1531.1	1567.1	1908.5	2451.4	3051.5	4027.0	12708.8	28763.8	33077.1	33923.3	24397.5
75°	1202.4	1229.9	1382.6	1870.4	2402.6	2472.6	6819.9	21564.4	27167.0	28778.7	20311.1
77.5°	979.7	998.8	1077.3	1389.0	1853.4	1751.6	3577.5	14036.3	17019.9	18642.2	11964.4
80°	778.3	799.5	846.1	941.5	1389.0	1249.0	1707.1	7112.5	8221.6	8204.6	4775.6
82.5°	604.4	610.7	665.9	691.3	950.0	886.4	924.6	3011.3	3335.7	3446.0	1724.0
85°	381.7	400.8	589.5	530.2	568.3	519.5	455.9	1196.0	1473.8	1452.6	689.2
87.5°	116.6	123.0	199.3	224.8	252.4	226.9	167.5	352.0	430.5	466.5	171.8
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°	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3	4735.3
2.5°	4762.9	4739.5	4656.8	4589.0	4525.4	4455.4	4396.0	4379.0	4364.2	4357.8	4355.7
5°	4807.4	4737.4	4574.1	4440.5	4334.5	4237.0	4175.5	4147.9	4120.3	4120.3	4128.8
7.5°	4871.0	4743.8	4491.4	4292.1	4158.5	4067.3	4022.8	4018.5	4024.9	4031.3	4033.4
10°	4941.0	4739.5	4370.6	4122.4	4003.7	3961.3	3963.4	3999.5	4033.4	4058.8	4063.1
12.5°	5008.9	4714.1	4228.5	3963.4	3887.1	3895.5	3954.9	4035.5	4101.2	4137.3	4139.4
15°	5085.2	4673.8	4056.7	3812.8	3787.4	3853.1	3963.4	4086.4	4186.1	4245.4	4251.8
17.5°	5148.8	4605.9	3876.5	3666.5	3698.3	3819.2	3971.9	4130.9	4251.8	4326.0	4338.7
20°	5220.9	4519.0	3689.8	3526.6	3617.7	3781.0	3954.9	4126.7	4251.8	4323.9	4340.9
22.5°	5278.2	4396.0	3511.7	3412.0	3545.6	3734.4	3897.7	4035.5	4137.3	4175.5	4200.9
25°	5301.5	4241.2	3344.2	3318.7	3488.4	3658.0	3768.3	3846.8	3878.6	3874.3	3884.9
27.5°	5288.8	4063.1	3200.0	3244.5	3416.3	3539.3	3594.4	3588.1	3530.8	3477.8	3503.2
30°	5235.8	3851.0	3079.1	3168.2	3323.0	3390.8	3382.4	3299.7	3191.5	3091.8	3098.2
32.5°	5140.3	3622.0	2966.7	3081.2	3191.5	3221.2	3163.9	3055.8	2901.0	2771.6	2752.5
35°	5059.8	3403.6	2867.1	2981.6	3060.0	3045.2	2990.0	2850.1	2710.1	2595.6	2576.5
37.5°	5047.0	3217.0	2771.6	2869.2	2913.7	2892.5	2824.6	2705.9	2655.0	2568.0	2557.4
40°	5114.9	3085.5	2674.1	2750.4	2771.6	2754.7	2680.4	2612.6	2659.2	2638.0	2638.0
42.5°	5299.4	3015.5	2587.1	2631.7	2648.6	2661.4	2608.3	2551.1	2608.3	2510.8	2479.0
45°	5592.0	3017.6	2508.7	2515.0	2565.9	2610.5	2574.4	2489.6	2459.9	2264.8	2226.6
47.5°	6022.5	3089.7	2445.1	2404.8	2495.9	2570.2	2519.3	2396.3	2264.8	2135.4	2112.1
50°	6525.1	3219.1	2387.8	2290.2	2402.6	2519.3	2481.1	2336.9	2201.2	2122.7	2107.9
52.5°	7082.8	3382.4	2317.8	2163.0	2288.1	2495.9	2489.6	2328.4	2141.8	2088.8	2076.1
55°	7772.0	3543.5	2230.9	2014.6	2186.3	2476.9	2466.3	2258.4	2129.1	2090.9	2086.7
57.5°	8573.6	3776.8	2105.8	1864.0	2069.7	2398.4	2375.1	2216.0	2086.7	2059.1	2057.0
60°	9865.0	4139.4	1927.6	1726.2	1951.0	2260.6	2290.2	2143.9	2018.8	2012.5	2010.3
62.5°	11563.6	4648.4	1743.1	1584.1	1813.1	2082.4	2167.3	2046.4	1946.7	1978.5	1982.8
65°	13909.0	5076.7	1552.3	1463.2	1660.4	1910.7	2050.6	1955.2	1866.1	1927.6	1927.6
67.5°	15438.0	5085.2	1378.4	1338.1	1505.6	1766.5	1927.6	1847.0	1762.2	1866.1	1870.4
70°	15119.9	4455.4	1234.2	1206.6	1355.1	1611.7	1791.9	1728.3	1630.7	1724.0	1690.1
71°	14606.7	4105.5	1176.9	1155.7	1295.7	1537.4	1728.3	1675.3	1577.7	1639.2	1620.1
72.5°	13788.1	3564.7	1083.6	1087.9	1206.6	1444.1	1639.2	1584.1	1486.5	1520.5	1514.1
75°	11654.8	3113.0	926.7	945.8	1037.0	1285.1	1461.1	1418.7	1319.0	1319.0	1312.7
77.5°	7286.4	2175.7	769.8	780.4	880.0	1100.6	1255.4	1219.3	1123.9	1092.1	1083.6
80°	2718.6	1123.9	602.3	615.0	676.5	867.3	1039.1	1005.2	907.6	871.6	837.6
82.5°	1028.5	564.1	443.2	432.6	498.3	661.6	814.3	774.0	697.7	610.7	585.3
85°	388.1	279.9	271.4	263.0	292.6	392.3	504.7	496.2	415.6	354.1	347.8
87.5°	101.8	91.2	106.0	78.5	82.7	74.2	76.3	31.8	14.8	6.4	4.2
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)