

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: P456936

Luminaire Tested: **GALN-SA8B-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456936
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-SA8B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38646 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

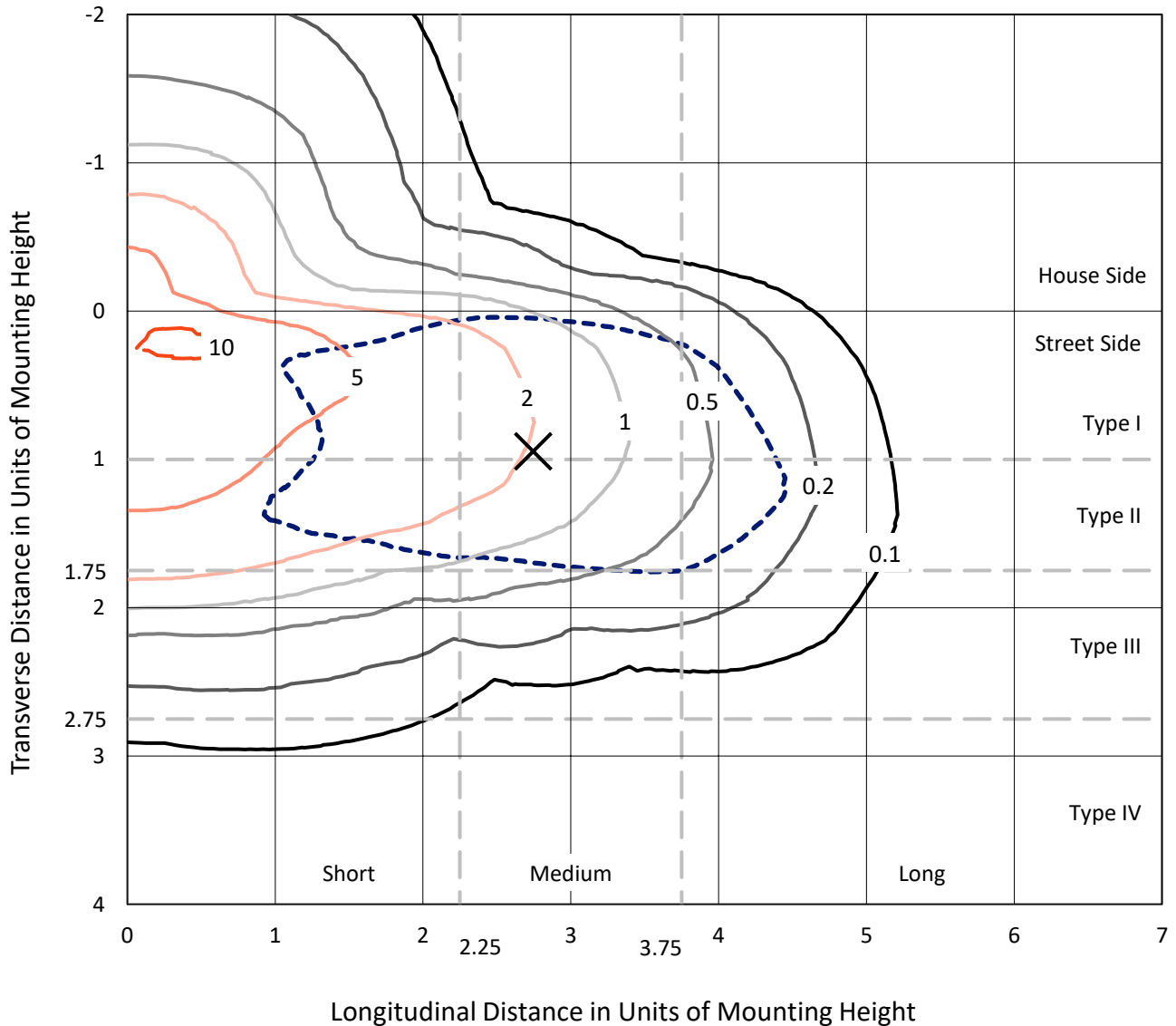
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

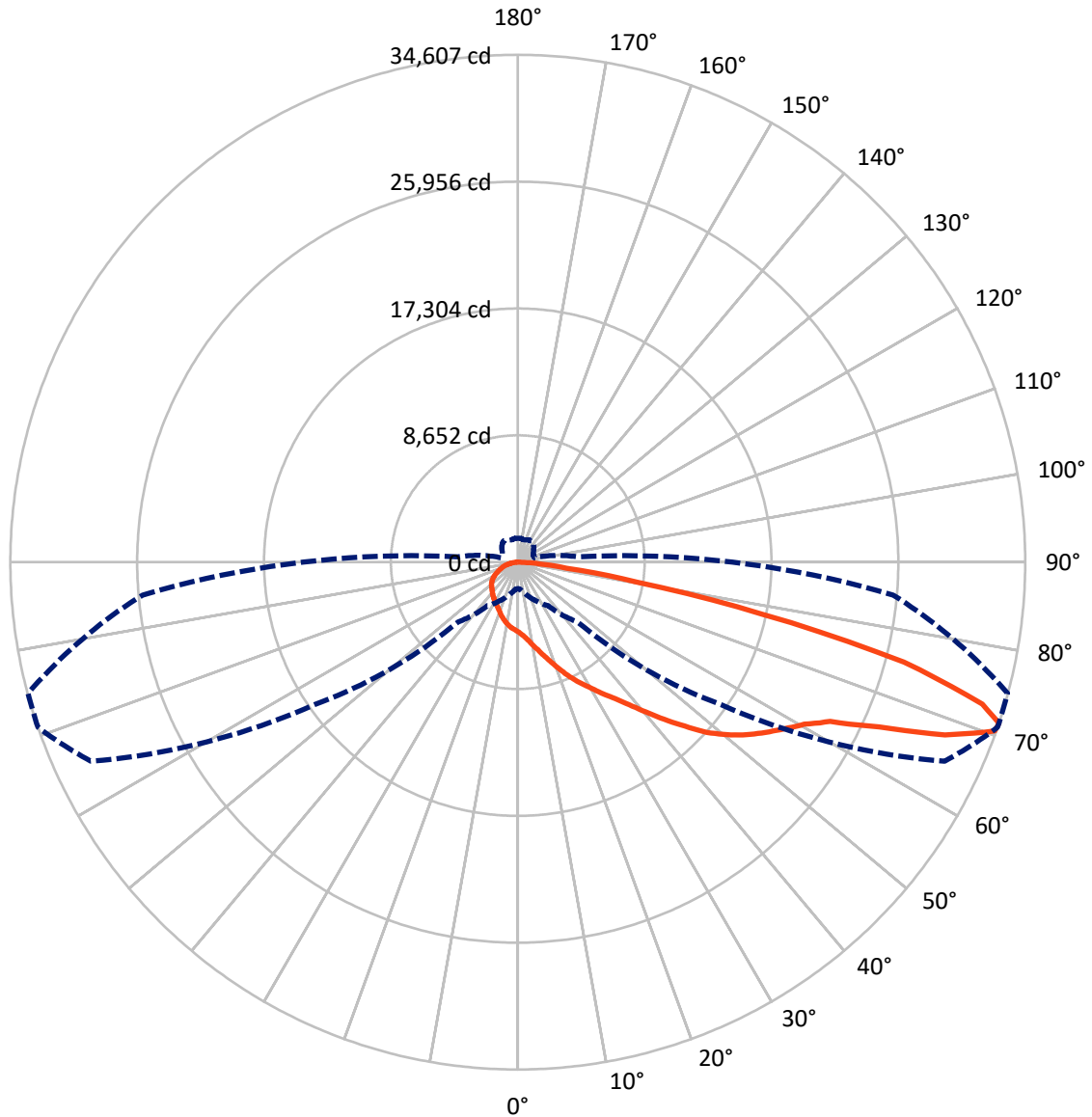
× Max cd
 - - - 1/2 Max cd



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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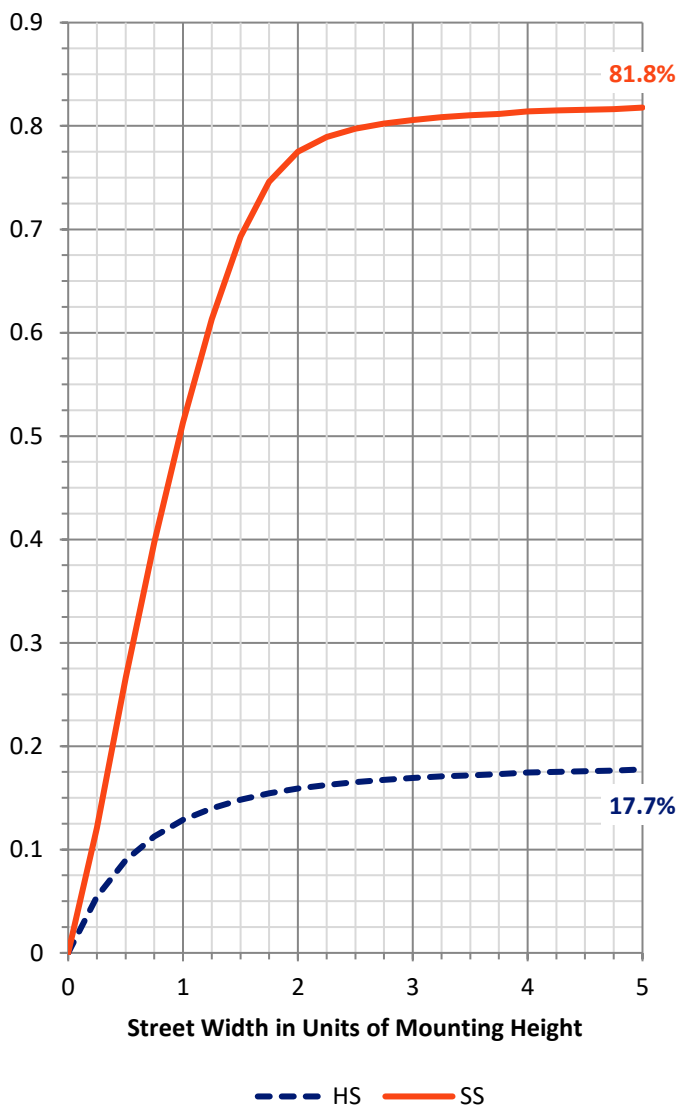
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6950.4	0.0	6950.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	31695.6	0.0	31695.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	38646.0	0.0	38646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.2	1.2
10°-20°	1547.2	4.0
20°-30°	2703.9	7.0
30°-40°	4021.8	10.4
40°-50°	5925.5	15.3
50°-60°	8295.8	21.5
60°-70°	9278.6	24.0
70°-80°	5667.8	14.7
80°-90°	729.1	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°	38646.0	100.0
0°-180°	38646.0	100.0

Coefficient of Utilization



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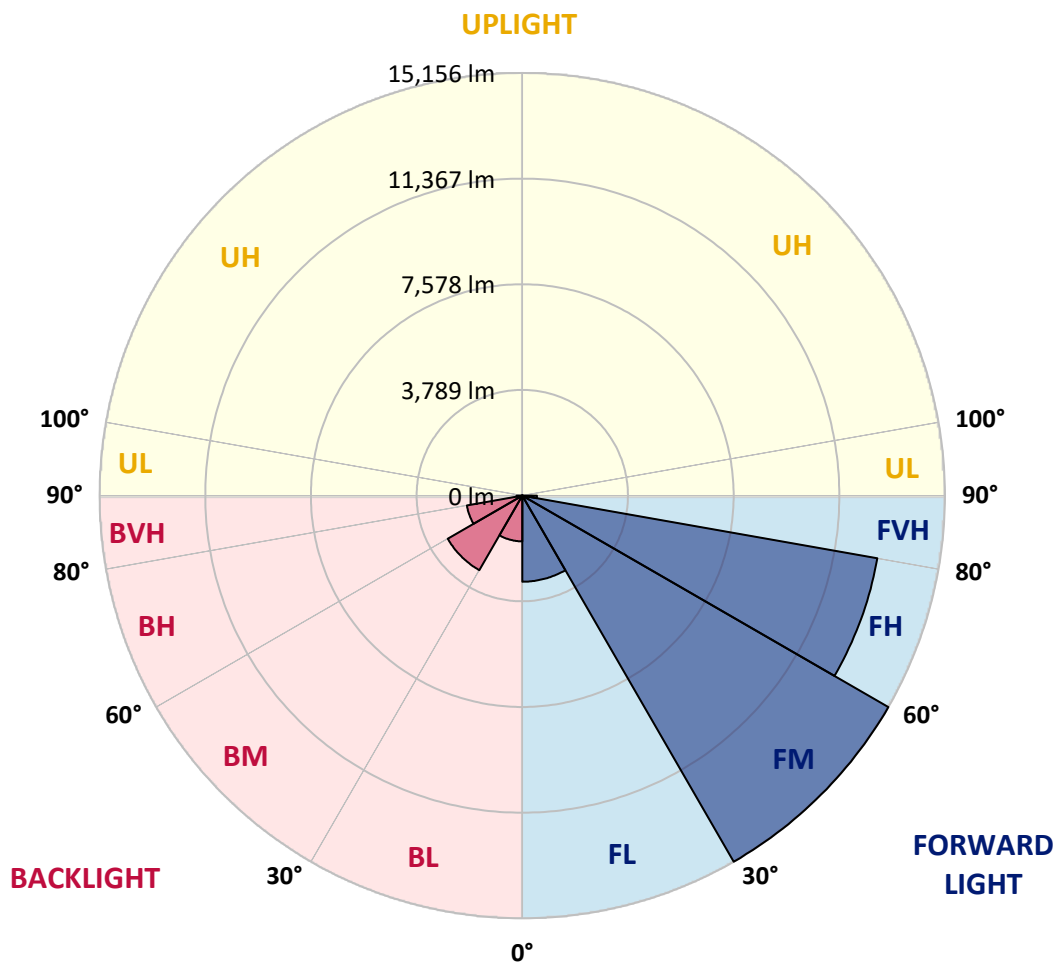
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3087.8	8.0			
FM	(30°-60°)	15156.2	39.2			
FH	(60°-80°)	12927.0	33.4			G5
FVH	(80°-90°)	524.6	1.4			G4/750
BL	(0°-30°)	1639.6	4.2	B3/2500		
BM	(30°-60°)	3086.9	8.0	B3/5000		
BH	(60°-80°)	2019.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	204.5	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°	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0
2.5°	5265.6	5240.1	5242.2	5206.1	5159.4	5108.4	5036.2	4972.4	4921.5	4891.7	4804.6
5°	5834.8	5809.3	5777.5	5698.9	5664.9	5539.6	5380.3	5235.8	5125.4	5063.8	4889.6
7.5°	6295.7	6289.4	6280.9	6236.3	6149.2	5975.0	5839.1	5588.4	5424.9	5308.0	5010.7
10°	6580.3	6591.0	6597.3	6605.8	6569.7	6478.4	6291.5	5975.0	5766.8	5618.1	5167.8
12.5°	6724.8	6735.4	6771.5	6850.1	6899.0	6888.3	6735.4	6425.3	6138.5	5943.1	5335.6
15°	6814.0	6831.0	6894.7	6998.8	7162.3	7266.4	7192.1	6905.3	6591.0	6359.4	5535.3
17.5°	6911.7	6930.8	7000.9	7149.6	7364.1	7589.3	7670.0	7423.6	7081.6	6805.5	5758.3
20°	6966.9	6992.4	7092.2	7287.7	7538.3	7865.4	8133.0	8003.5	7629.6	7323.8	6015.3
22.5°	7056.1	7077.4	7162.3	7370.5	7670.0	8079.9	8596.1	8568.5	8239.2	7844.2	6297.8
25°	7298.3	7332.3	7374.7	7500.1	7788.9	8298.7	8980.5	9171.7	8829.7	8387.9	6557.0
27.5°	7755.0	7782.6	7780.4	7797.4	7961.0	8487.8	9314.0	9768.6	9416.0	8938.1	6807.6
30°	8275.4	8286.0	8294.5	8256.2	8292.3	8681.0	9619.9	10359.1	10006.5	9503.1	7026.4
32.5°	8908.3	8929.6	8857.3	8759.6	8729.9	8967.8	9872.6	10949.5	10705.3	10076.6	7243.1
35°	9656.0	9711.2	9564.7	9392.6	9271.5	9379.9	10212.5	11552.8	11421.1	10809.4	7529.8
37.5°	10509.9	10577.8	10441.9	10104.2	9932.1	9961.9	10656.4	12298.3	12325.9	11644.1	7956.7
40°	11208.7	11297.9	11302.1	10824.2	10563.0	10597.0	11219.3	13101.2	13417.7	12676.4	8460.1
42.5°	11669.6	11756.7	11848.0	11567.7	11293.6	11486.9	11875.6	13972.1	14645.4	13929.6	9163.2
45°	12175.1	12253.7	12304.7	12177.3	12024.3	12525.6	12667.9	14898.2	15953.8	15329.4	9932.1
47.5°	12761.4	12848.5	12897.3	12776.2	12718.9	13436.8	13521.8	15762.7	17351.5	16688.8	10781.7
50°	13543.0	13608.9	13583.4	13506.9	13494.2	14135.6	14341.7	16571.9	18504.8	18152.2	11663.2
52.5°	14515.9	14594.4	14622.1	14513.7	14464.9	14634.8	15002.3	17309.0	19554.1	19409.7	12604.2
55°	15104.2	15229.5	15650.1	15820.0	15936.8	15280.5	15713.8	18122.5	20495.1	20735.1	13615.2
57.5°	14350.2	14511.6	15452.6	16302.2	17400.3	16894.8	16722.8	18972.1	21436.1	22020.2	14826.0
60°	12510.7	12546.8	13759.7	15325.1	17534.1	18970.0	18827.7	20323.0	22455.6	23315.8	16421.1
62.5°	8678.9	8755.4	10189.1	12687.0	15881.6	19717.7	22408.9	22655.3	23917.0	25255.1	18759.7
65°	4475.4	4375.6	5681.9	7973.7	11973.3	17942.0	25310.3	26943.7	27086.1	28288.3	22052.0
67.5°	2754.9	2799.5	3411.2	4655.9	7079.5	13039.6	25006.6	32183.8	31434.0	32011.8	25108.6
70°	2068.8	2124.1	2544.6	3186.1	4316.1	7455.5	20110.6	33454.0	34501.2	34352.5	26038.9
71°	1799.1	1856.4	2294.0	2899.3	3625.8	5754.1	16943.7	32124.3	34607.4	34581.9	25688.4
72.5°	1533.6	1569.7	1911.7	2455.4	3056.5	4033.6	12729.5	28810.8	33131.1	33978.6	24437.4
75°	1204.3	1232.0	1384.9	1873.4	2406.6	2476.7	6831.0	21599.6	27211.4	28825.7	20344.3
77.5°	981.3	1000.4	1079.0	1391.3	1856.4	1754.5	3583.3	14059.2	17047.7	18672.6	11984.0
80°	779.5	800.8	847.5	943.1	1391.3	1251.1	1709.9	7124.1	8235.0	8218.0	4783.4
82.5°	605.4	611.7	667.0	692.4	951.6	887.9	926.1	3016.2	3341.2	3451.6	1726.9
85°	382.3	401.4	590.5	531.0	569.2	520.4	456.7	1198.0	1476.2	1455.0	690.3
87.5°	116.8	123.2	199.7	225.2	252.8	227.3	167.8	352.6	431.2	467.3	172.0
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°	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0
2.5°	4770.6	4747.3	4664.4	4596.5	4532.8	4462.7	4403.2	4386.2	4371.3	4365.0	4362.8
5°	4815.3	4745.2	4581.6	4447.8	4341.6	4243.9	4182.3	4154.7	4127.1	4127.1	4135.6
7.5°	4879.0	4751.5	4498.8	4299.1	4165.3	4074.0	4029.3	4025.1	4031.5	4037.8	4040.0
10°	4949.1	4747.3	4377.7	4129.2	4010.2	3967.8	3969.9	4006.0	4040.0	4065.5	4069.7
12.5°	5017.0	4721.8	4235.4	3969.9	3893.4	3901.9	3961.4	4042.1	4107.9	4144.0	4146.2
15°	5093.5	4681.4	4063.3	3819.1	3793.6	3859.4	3969.9	4093.1	4192.9	4252.4	4258.7
17.5°	5157.2	4613.5	3882.8	3672.5	3704.4	3825.4	3978.4	4137.7	4258.7	4333.1	4345.8
20°	5229.4	4526.4	3695.9	3532.3	3623.7	3787.2	3961.4	4133.4	4258.7	4331.0	4348.0
22.5°	5286.8	4403.2	3517.4	3417.6	3551.4	3740.5	3904.0	4042.1	4144.0	4182.3	4207.8
25°	5310.2	4248.1	3349.6	3324.2	3494.1	3664.0	3774.5	3853.1	3884.9	3880.7	3891.3
27.5°	5297.4	4069.7	3205.2	3249.8	3421.9	3545.1	3600.3	3593.9	3536.6	3483.5	3509.0
30°	5244.3	3857.3	3084.1	3173.4	3328.4	3396.4	3387.9	3305.0	3196.7	3096.9	3103.3
32.5°	5148.7	3627.9	2971.6	3086.3	3196.7	3226.5	3169.1	3060.8	2905.7	2776.2	2757.0
35°	5068.0	3409.1	2871.7	2986.4	3065.0	3050.2	2994.9	2854.7	2714.6	2599.9	2580.7
37.5°	5055.3	3222.2	2776.2	2873.9	2918.5	2897.2	2829.3	2710.3	2659.3	2572.2	2561.6
40°	5123.2	3090.5	2678.4	2754.9	2776.2	2759.2	2684.8	2616.8	2663.6	2642.3	2642.3
42.5°	5308.0	3020.4	2591.4	2636.0	2653.0	2665.7	2612.6	2555.2	2612.6	2514.9	2483.0
45°	5601.2	3022.5	2512.8	2519.1	2570.1	2614.7	2578.6	2493.7	2463.9	2268.5	2230.3
47.5°	6032.3	3094.8	2449.0	2408.7	2500.0	2574.4	2523.4	2400.2	2268.5	2138.9	2115.6
50°	6535.7	3224.3	2391.7	2294.0	2406.6	2523.4	2485.2	2340.7	2204.8	2126.2	2111.3
52.5°	7094.4	3387.9	2321.6	2166.5	2291.9	2500.0	2493.7	2332.2	2145.3	2092.2	2079.5
55°	7784.7	3549.3	2234.5	2017.9	2189.9	2480.9	2470.3	2262.1	2132.6	2094.3	2090.1
57.5°	8587.6	3783.0	2109.2	1867.1	2073.1	2402.3	2379.0	2219.6	2090.1	2062.5	2060.3
60°	9881.1	4146.2	1930.8	1729.0	1954.1	2264.3	2294.0	2147.4	2022.1	2015.7	2013.6
62.5°	11582.5	4655.9	1746.0	1586.7	1816.1	2085.8	2170.8	2049.7	1949.9	1981.8	1986.0
65°	13931.7	5085.0	1554.8	1465.6	1663.1	1913.8	2054.0	1958.4	1869.2	1930.8	1930.8
67.5°	15463.2	5093.5	1380.6	1340.3	1508.1	1769.3	1930.8	1850.1	1765.1	1869.2	1873.4
70°	15144.6	4462.7	1236.2	1208.6	1357.3	1614.3	1794.8	1731.1	1633.4	1726.9	1692.9
71°	14630.6	4112.2	1178.9	1157.6	1297.8	1539.9	1731.1	1678.0	1580.3	1641.9	1622.8
72.5°	13810.7	3570.6	1085.4	1089.6	1208.6	1446.5	1641.9	1586.7	1489.0	1523.0	1516.6
75°	11673.9	3118.1	928.2	947.3	1038.7	1287.2	1463.5	1421.0	1321.2	1321.2	1314.8
77.5°	7298.3	2179.3	771.0	781.7	881.5	1102.4	1257.4	1221.3	1125.8	1093.9	1085.4
80°	2723.0	1125.8	603.2	616.0	677.6	868.7	1040.8	1006.8	909.1	873.0	839.0
82.5°	1030.2	565.0	443.9	433.3	499.2	662.7	815.6	775.3	698.8	611.7	586.2
85°	388.7	280.4	271.9	263.4	293.1	393.0	505.5	497.0	416.3	354.7	348.3
87.5°	102.0	91.3	106.2	78.6	82.8	74.3	76.5	31.9	14.9	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)