

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: P456240

Luminaire Tested: **GALN-SA7C-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456240
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-SA7C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41186 lumens
Efficiency: N/A
Efficacy: 109.2 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

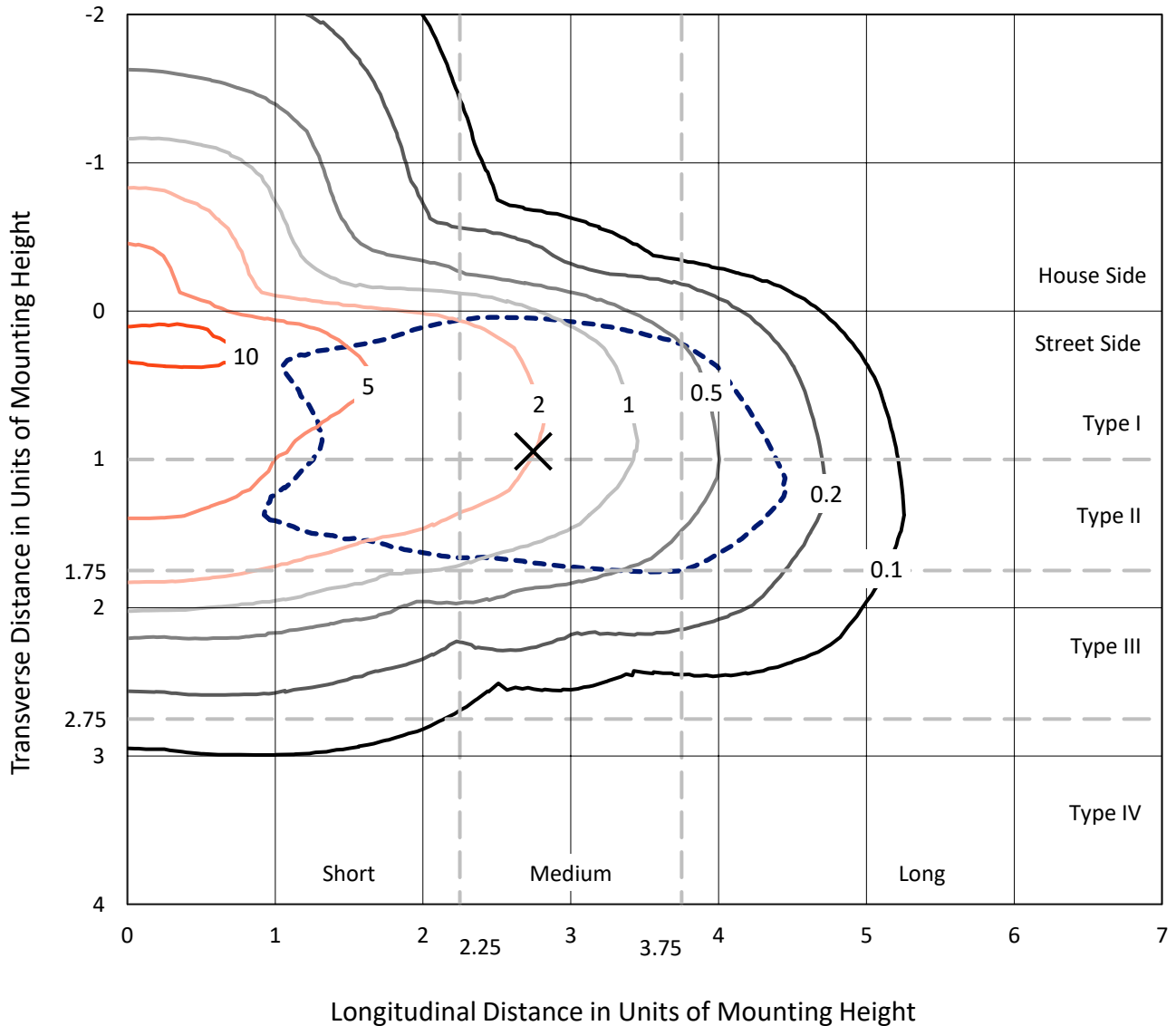
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

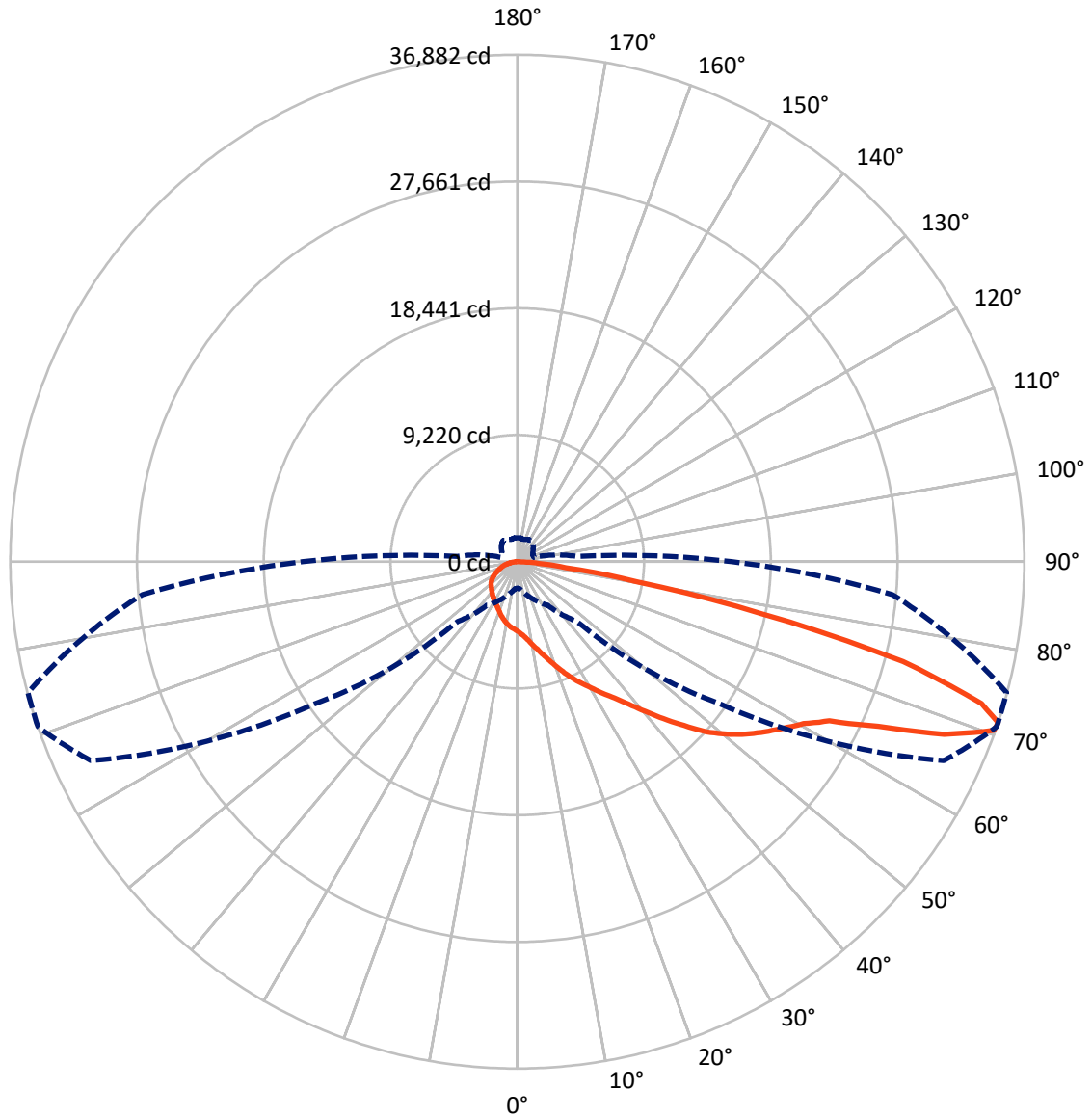
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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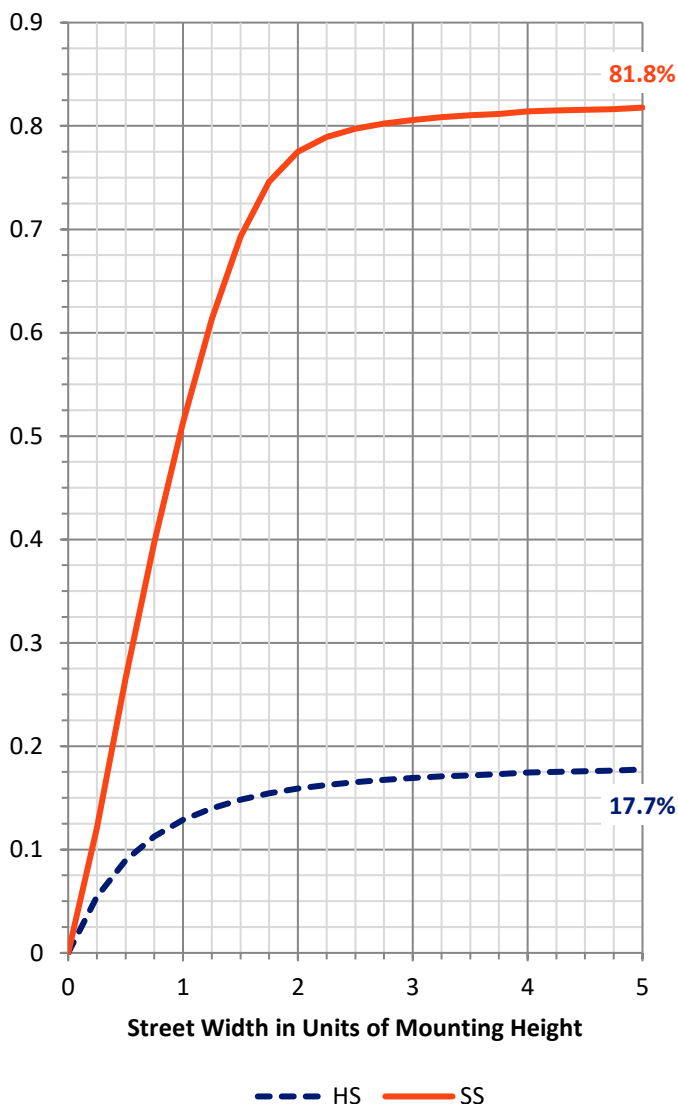
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7407.2	0.0	7407.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	33778.8	0.0	33778.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	41186.0	0.0	41186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.5	1.2
10°-20°	1648.9	4.0
20°-30°	2881.6	7.0
30°-40°	4286.1	10.4
40°-50°	6315.0	15.3
50°-60°	8841.1	21.5
60°-70°	9888.5	24.0
70°-80°	6040.3	14.7
80°-90°	777.0	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°	41186.0	100.0
0°-180°	41186.0	100.0

Coefficient of Utilization



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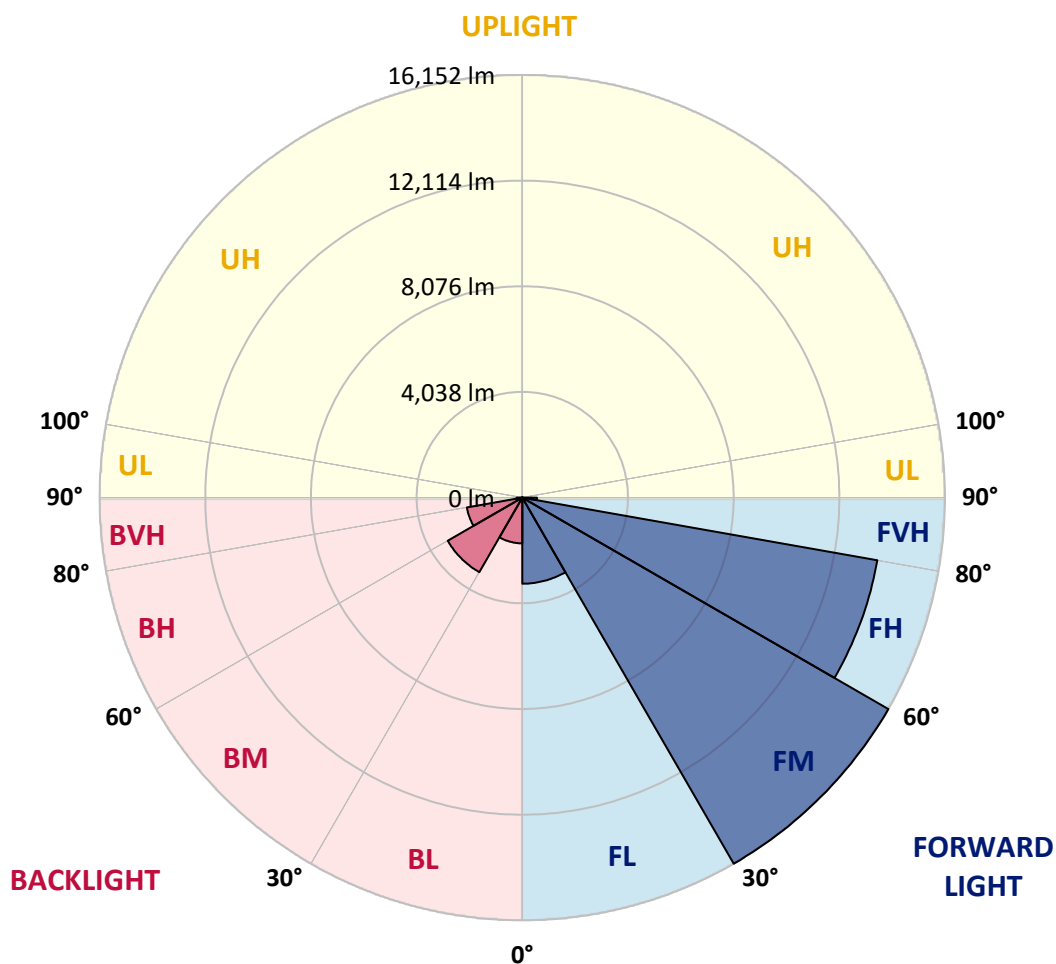
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3290.8	8.0			
FM	(30°-60°)	16152.3	39.2			
FH	(60°-80°)	13776.6	33.4			G5
FVH	(80°-90°)	559.1	1.4			G4/750
BL	(0°-30°)	1747.3	4.2	B3/2500		
BM	(30°-60°)	3289.8	8.0	B3/5000		
BH	(60°-80°)	2152.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	217.9	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°	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8
2.5°	5611.6	5584.5	5586.7	5548.2	5498.4	5444.1	5367.2	5299.2	5244.9	5213.2	5120.4
5°	6218.3	6191.1	6157.2	6073.4	6037.2	5903.6	5733.9	5579.9	5462.2	5396.6	5211.0
7.5°	6709.5	6702.7	6693.7	6646.1	6553.3	6367.7	6222.8	5955.7	5781.4	5656.9	5340.0
10°	7012.8	7024.2	7031.0	7040.0	7001.5	6904.2	6705.0	6367.7	6145.9	5987.4	5507.5
12.5°	7166.8	7178.1	7216.6	7300.3	7352.4	7341.1	7178.1	6847.6	6542.0	6333.7	5686.3
15°	7261.8	7280.0	7347.9	7458.8	7633.1	7744.0	7664.8	7359.2	7024.2	6777.4	5899.1
17.5°	7366.0	7386.3	7461.0	7619.5	7848.1	8088.1	8174.1	7911.5	7547.1	7252.8	6136.8
20°	7424.8	7452.0	7558.4	7766.6	8033.8	8382.4	8667.6	8529.5	8131.1	7805.1	6410.7
22.5°	7519.9	7542.5	7633.1	7854.9	8174.1	8611.0	9161.1	9131.6	8780.8	8359.7	6711.8
25°	7778.0	7814.2	7859.5	7993.0	8300.9	8844.1	9570.8	9774.5	9410.1	8939.2	6987.9
27.5°	8264.6	8294.1	8291.8	8309.9	8484.2	9045.6	9926.2	10410.6	10034.8	9525.5	7255.1
30°	8819.2	8830.6	8839.6	8798.9	8837.4	9251.6	10252.1	11039.9	10664.1	10127.6	7488.2
32.5°	9493.8	9516.5	9439.5	9335.4	9303.7	9557.2	10521.5	11669.2	11408.9	10738.8	7719.1
35°	10290.6	10349.5	10193.3	10009.9	9880.9	9996.4	10883.7	12312.1	12171.7	11519.8	8024.7
37.5°	11200.6	11273.1	11128.2	10768.3	10584.9	10616.6	11356.8	13106.6	13136.1	12409.4	8479.7
40°	11945.4	12040.4	12045.0	11535.6	11257.2	11293.4	11956.7	13962.3	14299.6	13509.6	9016.2
42.5°	12436.6	12529.4	12626.7	12327.9	12035.9	12241.9	12656.2	14890.4	15608.0	14845.1	9765.5
45°	12975.3	13059.1	13113.4	12977.6	12814.6	13348.8	13500.5	15877.4	17002.4	16336.9	10584.9
47.5°	13600.1	13692.9	13745.0	13616.0	13554.8	14320.0	14410.5	16798.7	18491.9	17785.6	11490.4
50°	14433.1	14503.3	14476.2	14394.7	14381.1	15064.7	15284.3	17661.1	19721.1	19345.3	12429.8
52.5°	15469.9	15553.7	15583.1	15467.6	15415.6	15596.7	15988.3	18446.6	20839.3	20685.4	13432.6
55°	16096.9	16230.5	16678.7	16859.8	16984.3	16284.8	16746.6	19313.6	21842.1	22097.9	14510.1
57.5°	15293.3	15465.4	16468.2	17373.6	18544.0	18005.2	17821.9	20219.1	22844.9	23467.4	15800.4
60°	13333.0	13371.5	14664.0	16332.4	18686.6	20216.8	20065.1	21658.8	23931.5	24848.3	17500.4
62.5°	9249.3	9330.8	10858.8	13520.9	16925.4	21013.6	23881.7	24144.3	25488.9	26915.0	19992.7
65°	4769.5	4663.2	6055.3	8497.8	12760.3	19121.2	26973.9	28714.6	28866.3	30147.5	23501.4
67.5°	2936.0	2983.5	3635.4	4962.0	7544.8	13896.7	26650.2	34299.1	33500.0	34115.7	26758.8
70°	2204.8	2263.7	2711.9	3395.5	4599.8	7945.5	21432.4	35652.8	36768.7	36610.3	27750.3
71°	1917.3	1978.4	2444.8	3089.9	3864.1	6132.3	18057.3	34235.7	36881.9	36854.8	27376.8
72.5°	1634.4	1672.9	2037.3	2616.8	3257.4	4298.7	13566.2	30704.4	35308.7	36211.9	26043.5
75°	1283.5	1312.9	1475.9	1996.6	2564.7	2639.4	7280.0	23019.2	28999.8	30720.2	21681.4
77.5°	1045.8	1066.2	1149.9	1482.7	1978.4	1869.8	3818.8	14983.2	18168.2	19899.9	12771.6
80°	830.8	853.4	903.2	1005.1	1482.7	1333.3	1822.3	7592.3	8776.2	8758.1	5097.8
82.5°	645.1	651.9	710.8	738.0	1014.1	946.2	987.0	3214.4	3560.7	3678.5	1840.4
85°	407.5	427.8	629.3	565.9	606.7	554.6	486.7	1276.7	1573.2	1550.6	735.7
87.5°	124.5	131.3	212.8	239.9	269.4	242.2	178.8	375.8	459.5	498.0	183.4
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°	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8	5054.8
2.5°	5084.2	5059.3	4971.0	4898.6	4830.7	4756.0	4692.6	4674.5	4658.6	4651.8	4649.6
5°	5131.7	5057.0	4882.7	4740.1	4626.9	4522.8	4457.2	4427.7	4398.3	4398.3	4407.4
7.5°	5199.6	5063.8	4794.4	4581.7	4439.1	4341.7	4294.2	4289.6	4296.4	4303.2	4305.5
10°	5274.3	5059.3	4665.4	4400.6	4273.8	4228.5	4230.8	4269.3	4305.5	4332.7	4337.2
12.5°	5346.8	5032.1	4513.8	4230.8	4149.3	4158.4	4221.7	4307.8	4377.9	4416.4	4418.7
15°	5428.3	4989.1	4330.4	4070.1	4042.9	4113.1	4230.8	4362.1	4468.5	4531.9	4538.7
17.5°	5496.2	4916.7	4138.0	3913.9	3947.8	4076.9	4239.8	4409.6	4538.7	4617.9	4631.5
20°	5573.1	4823.9	3938.8	3764.5	3861.8	4036.1	4221.7	4405.1	4538.7	4615.6	4633.7
22.5°	5634.3	4692.6	3748.6	3642.2	3784.9	3986.3	4160.6	4307.8	4416.4	4457.2	4484.3
25°	5659.2	4527.3	3569.8	3542.6	3723.7	3904.8	4022.5	4106.3	4140.2	4135.7	4147.0
27.5°	5645.6	4337.2	3415.9	3463.4	3646.8	3778.1	3836.9	3830.1	3769.0	3712.4	3739.6
30°	5589.0	4110.8	3286.8	3381.9	3547.2	3619.6	3610.5	3522.3	3406.8	3300.4	3307.2
32.5°	5487.1	3866.3	3166.9	3289.1	3406.8	3438.5	3377.4	3261.9	3096.7	2958.6	2938.2
35°	5401.1	3633.2	3060.5	3182.7	3266.5	3250.6	3191.8	3042.4	2893.0	2770.7	2750.4
37.5°	5387.5	3434.0	2958.6	3062.7	3110.3	3087.6	3015.2	2888.4	2834.1	2741.3	2730.0
40°	5460.0	3293.6	2854.5	2936.0	2958.6	2940.5	2861.3	2788.8	2838.6	2816.0	2816.0
42.5°	5656.9	3218.9	2761.7	2809.2	2827.3	2840.9	2784.3	2723.2	2784.3	2680.2	2646.2
45°	5969.3	3221.2	2677.9	2684.7	2739.0	2786.6	2748.1	2657.5	2625.9	2417.6	2376.9
47.5°	6428.8	3298.2	2610.0	2567.0	2664.3	2743.6	2689.2	2557.9	2417.6	2279.5	2254.6
50°	6965.3	3436.2	2548.9	2444.8	2564.7	2689.2	2648.5	2494.6	2349.7	2265.9	2250.1
52.5°	7560.6	3610.5	2474.2	2308.9	2442.5	2664.3	2657.5	2485.5	2286.3	2229.7	2216.1
55°	8296.3	3782.6	2381.4	2150.5	2333.8	2644.0	2632.6	2410.8	2272.7	2232.0	2227.4
57.5°	9152.0	4031.6	2247.8	1989.8	2209.3	2560.2	2535.3	2365.5	2227.4	2198.0	2195.8
60°	10530.6	4418.7	2057.7	1842.6	2082.6	2413.1	2444.8	2288.6	2155.0	2148.2	2146.0
62.5°	12343.8	4962.0	1860.7	1691.0	1935.4	2222.9	2313.5	2184.4	2078.0	2112.0	2116.5
65°	14847.4	5419.2	1657.0	1561.9	1772.5	2039.6	2189.0	2087.1	1992.0	2057.7	2057.7
67.5°	16479.5	5428.3	1471.4	1428.4	1607.2	1885.6	2057.7	1971.7	1881.1	1992.0	1996.6
70°	16139.9	4756.0	1317.5	1288.0	1446.5	1720.4	1912.8	1844.9	1740.8	1840.4	1804.1
71°	15592.1	4382.5	1256.3	1233.7	1383.1	1641.2	1844.9	1788.3	1684.2	1749.8	1729.4
72.5°	14718.4	3805.2	1156.7	1161.3	1288.0	1541.6	1749.8	1691.0	1586.8	1623.0	1616.3
75°	12441.1	3323.1	989.2	1009.6	1106.9	1371.8	1559.7	1514.4	1408.0	1408.0	1401.2
77.5°	7778.0	2322.5	821.7	833.0	939.4	1174.8	1340.1	1301.6	1199.7	1165.8	1156.7
80°	2902.0	1199.7	642.9	656.5	722.1	925.8	1109.2	1073.0	968.8	930.4	894.1
82.5°	1097.9	602.1	473.1	461.8	532.0	706.3	869.2	826.2	744.7	651.9	624.8
85°	414.3	298.8	289.7	280.7	312.4	418.8	538.8	529.7	443.7	378.0	371.2
87.5°	108.7	97.3	113.2	83.8	88.3	79.2	81.5	34.0	15.8	6.8	4.5
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)