

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: P532862

Luminaire Tested: **GALN-SA8B-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35401 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

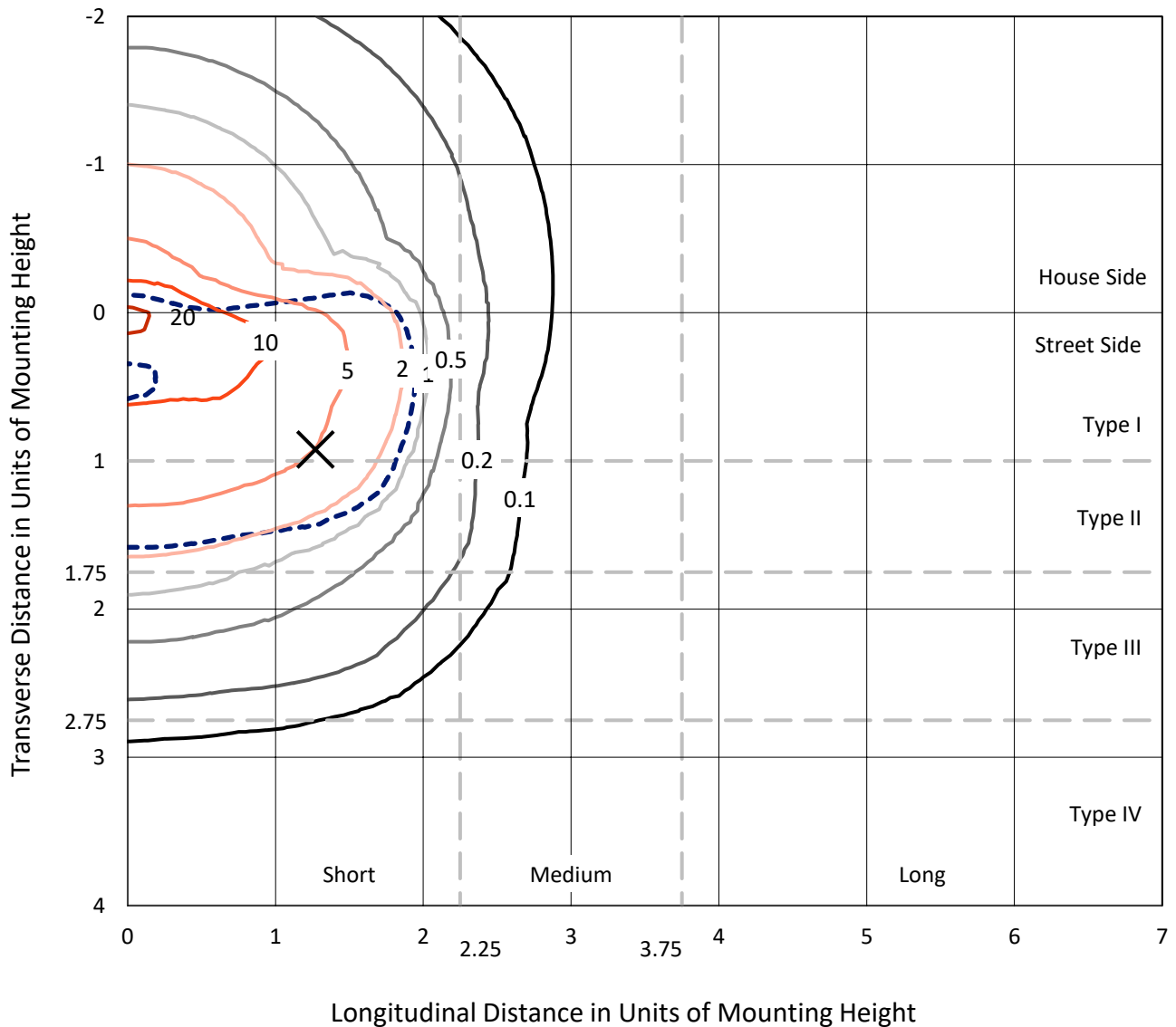
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

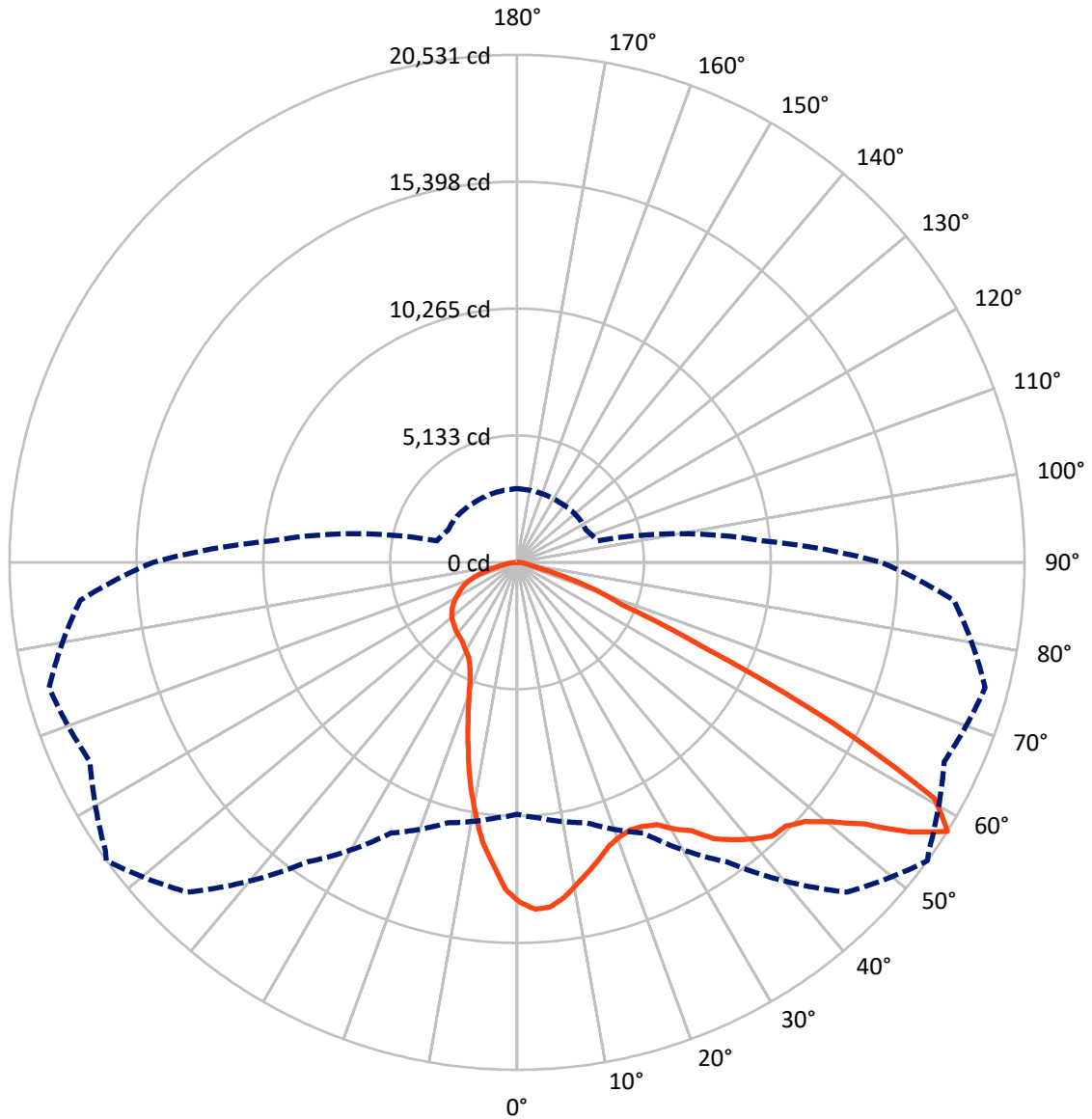
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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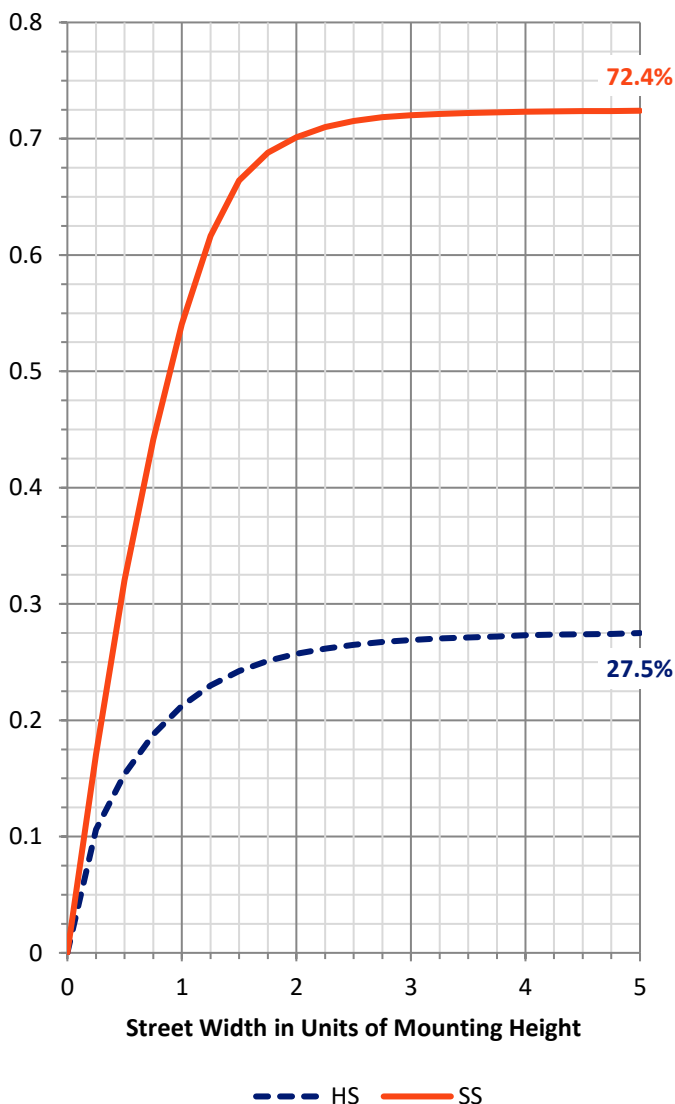
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9793.9	0.0	9793.9
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	25607.1	0.0	25607.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	35401.0	0.0	35401.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1186.7	3.4
10°-20°	2747.6	7.8
20°-30°	3860.4	10.9
30°-40°	5396.8	15.2
40°-50°	7306.3	20.6
50°-60°	8899.3	25.1
60°-70°	4635.2	13.1
70°-80°	1187.7	3.4
80°-90°	181.2	0.5
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°	35401.0	100.0
0°-180°	35401.0	100.0

**Coefficient of Utilization**

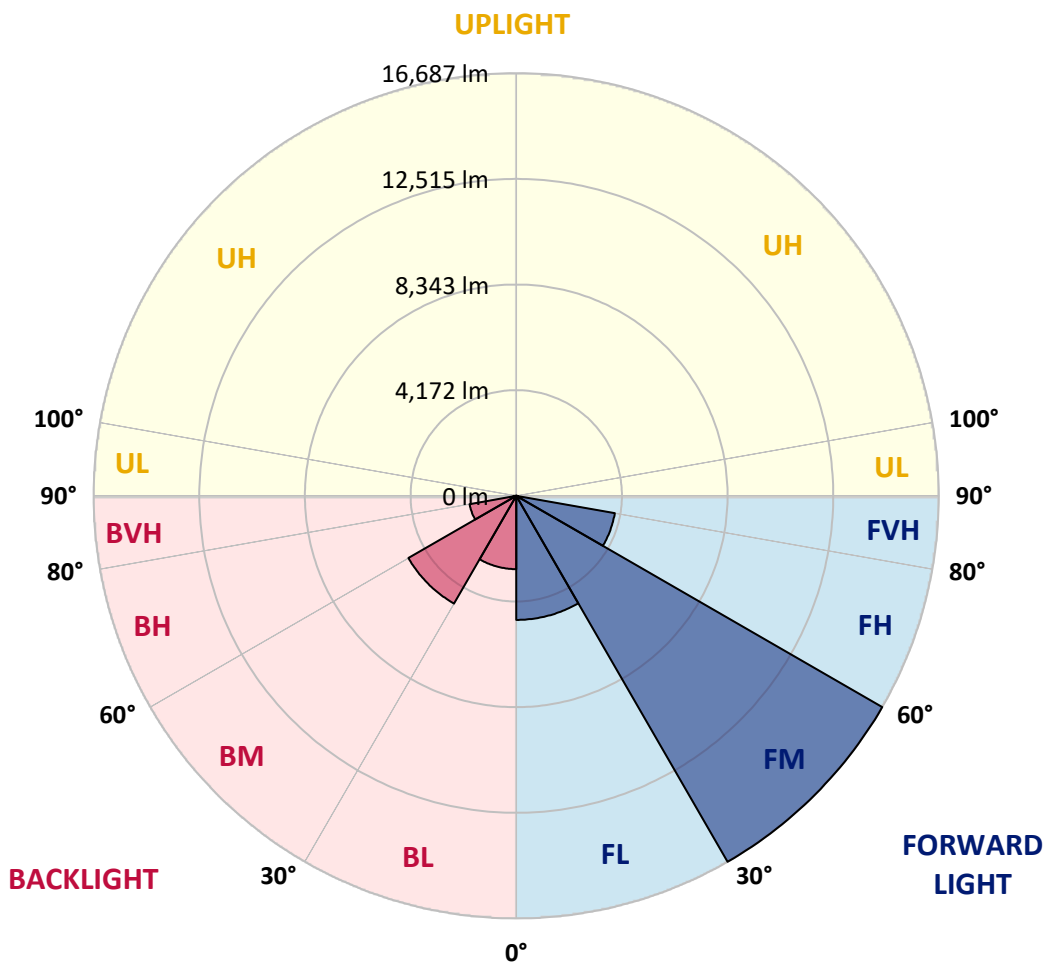


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4900.0	13.8			
FM (30°-60°)	16686.9	47.1			
FH (60°-80°)	3951.7	11.2			G2/5000
FVH (80°-90°)	68.5	0.2			G1/100
BL (0°-30°)	2894.6	8.2	B4/5000		
BM (30°-60°)	4915.5	13.9	B3/5000		
BH (60°-80°)	1871.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	112.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0
2.5°	14151.3	14096.7	14105.8	14178.6	14087.6	14051.2	14051.2	13873.7	13887.4	13764.5	13732.7
5°	13823.7	13696.3	13782.7	13891.9	13910.1	13946.5	14005.7	13960.2	13832.8	13700.8	13486.9
7.5°	12968.2	13082.0	13113.8	13191.2	13355.0	13505.1	13691.7	13564.3	13559.8	13427.8	13300.4
10°	12217.4	12149.2	12322.1	12435.8	12708.9	12959.1	13245.8	13232.1	13300.4	13150.2	12931.8
12.5°	11471.2	11416.6	11498.5	11757.9	12140.1	12504.1	12845.4	12718.0	13082.0	13054.7	12586.0
15°	10679.4	10720.4	10838.7	11079.9	11580.4	12017.2	12449.5	12454.0	12777.1	12886.3	12258.4
17.5°	10124.3	10078.8	10229.0	10588.4	11034.4	11557.6	12049.1	12149.2	12645.2	12708.9	12158.3
20°	9710.2	9773.9	9969.6	10151.6	10665.8	11298.3	11853.4	11889.8	12617.8	12790.8	11999.0
22.5°	9610.1	9573.7	9637.4	9933.2	10356.4	11043.5	11748.8	11885.3	12613.3	12763.5	11698.7
25°	9505.5	9623.8	9619.2	9915.0	10224.4	10838.7	11835.2	11985.4	12854.5	12904.5	11739.7
27.5°	9742.1	9728.4	9855.8	9878.6	10260.8	10893.3	12017.2	12131.0	13254.9	13213.9	11771.5
30°	9978.7	9910.4	9987.8	10256.3	10433.7	11207.3	12517.7	12508.6	13773.6	13746.3	11871.6
32.5°	10269.9	10238.1	10288.1	10524.7	10825.1	11625.9	12940.9	13209.4	14301.4	14474.4	12217.4
35°	10324.5	10456.5	10574.8	10893.3	11321.0	12303.9	13737.2	13960.2	14911.2	15452.7	12877.2
37.5°	10670.3	10720.4	10998.0	11562.2	11953.5	13209.4	14242.3	14383.3	15466.3	16080.6	13573.4
40°	11038.9	11098.1	11516.7	12108.2	12645.2	13800.9	14715.5	14761.0	15643.8	16562.9	14028.4
42.5°	11539.4	11594.0	12008.1	12749.8	13468.7	14306.0	15134.1	15184.2	15630.1	17118.0	14751.9
45°	12058.2	12190.1	12677.0	13518.8	14164.9	14897.5	15229.7	15434.5	15757.5	17614.0	15338.9
47.5°	12786.2	12909.1	13309.5	14133.1	14888.4	15416.3	15671.1	15871.3	16062.4	18046.3	15716.6
50°	13559.8	13582.5	14069.4	14815.6	15370.8	16003.2	16494.7	16562.9	16462.8	18546.8	16358.2
52.5°	14128.5	14201.3	14579.0	15307.0	16135.2	16913.3	17586.7	17659.5	17463.9	18733.4	16576.6
55°	13186.6	13145.7	13760.0	14729.2	16649.4	18269.3	19247.6	19302.2	18191.9	19311.3	17291.0
57.5°	10192.6	10388.2	10911.5	12080.9	14792.9	18869.9	20530.7	20335.1	19065.6	19602.5	17746.0
60°	7407.8	7362.3	7712.7	8495.3	11148.1	16262.6	19411.4	19611.6	18351.2	17668.6	14633.6
62.5°	6033.6	5969.9	5997.2	6024.5	7193.9	10793.2	14369.7	14365.1	14133.1	12699.8	9869.5
65°	4823.3	4973.4	4987.1	5191.8	5342.0	6447.7	8327.0	8772.9	7639.9	6265.7	4545.7
67.5°	3635.7	3581.0	3763.1	4491.1	4773.2	4654.9	4545.7	4595.8	3267.1	2357.0	2220.5
70°	2143.2	2120.4	2338.8	3130.6	3931.4	3699.4	3426.3	3430.9	2243.3	1647.2	1833.8
72.5°	1174.0	1169.4	1214.9	1588.0	2234.2	2320.6	2056.7	2120.4	1337.8	1333.2	1433.3
75°	655.2	641.6	627.9	700.7	805.4	850.9	869.1	878.2	919.2	1028.4	1069.3
77.5°	241.2	232.1	232.1	268.5	341.3	427.7	541.5	550.6	650.7	746.2	787.2
80°	81.9	91.0	122.9	168.4	227.5	304.9	368.6	377.7	459.6	523.3	536.9
82.5°	50.1	54.6	81.9	118.3	163.8	213.9	273.0	277.6	341.3	382.2	400.4
85°	22.8	27.3	45.5	72.8	104.7	141.1	145.6	145.6	141.1	145.6	136.5
87.5°	0.0	0.0	9.1	9.1	9.1	13.7	18.2	13.7	22.8	27.3	27.3
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°	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0	13760.0
2.5°	13637.1	13587.1	13432.3	13295.8	13254.9	13072.9	12804.4	12836.3	12640.6	12731.6	12636.1
5°	13450.5	13282.2	12886.3	12718.0	12276.6	12076.4	11939.9	11598.6	11439.3	11407.5	11271.0
7.5°	12972.8	12868.1	12372.1	11917.1	11448.4	11048.0	10533.8	10183.5	9933.2	9864.9	9664.7
10°	12595.1	12363.0	11675.9	10984.3	10315.4	9619.2	8950.3	8427.1	8172.3	7876.5	7776.4
12.5°	12222.0	11871.6	10943.4	10056.1	9191.5	8313.3	7503.4	6866.3	6311.2	6179.2	6133.7
15°	11989.9	11380.2	10288.1	9218.8	7990.2	6843.6	6033.6	5615.0	5273.7	5132.7	5232.8
17.5°	11685.0	10975.2	9660.2	8236.0	6884.5	5828.9	5150.9	4891.5	4768.7	4782.3	4741.4
20°	11302.8	10593.0	8836.6	7344.1	5897.1	5055.3	4668.6	4573.0	4591.2	4623.1	4609.4
22.5°	11029.8	10128.9	8240.5	6434.1	5096.3	4627.6	4468.3	4400.1	4459.2	4486.5	4463.8
25°	10820.5	9733.0	7517.0	5628.7	4632.2	4386.4	4313.6	4309.1	4400.1	4436.5	4413.7
27.5°	10629.4	9364.4	6798.1	5014.4	4322.7	4199.9	4177.1	4231.7	4290.9	4327.3	4359.1
30°	10515.6	9082.3	6124.6	4500.2	4168.0	4108.9	4067.9	4118.0	4149.8	4186.2	4168.0
32.5°	10624.8	8882.1	5474.0	4209.0	4040.6	3981.5	4036.1	4004.2	4058.8	4090.7	4040.6
35°	10966.1	8704.6	5009.8	4054.3	3895.0	3917.8	3926.9	3913.2	3936.0	3908.7	3967.8
37.5°	11302.8	8640.9	4582.1	3922.3	3826.8	3826.8	3817.7	3790.4	3835.9	3826.8	3854.1
40°	11730.6	8681.9	4218.1	3781.3	3763.1	3754.0	3717.6	3713.0	3694.8	3699.4	3708.5
42.5°	12103.7	8772.9	4008.8	3690.3	3703.9	3722.1	3653.9	3599.2	3622.0	3576.5	3576.5
45°	12499.5	8854.8	3822.2	3626.6	3612.9	3608.4	3553.7	3521.9	3503.7	3508.2	3549.2
47.5°	13122.9	8973.1	3681.2	3540.1	3549.2	3480.9	3467.3	3426.3	3444.5	3471.8	3476.4
50°	13564.3	9223.4	3571.9	3440.0	3471.8	3426.3	3344.4	3326.2	3326.2	3371.7	3362.6
52.5°	13873.7	9573.7	3467.3	3330.8	3344.4	3308.0	3280.7	3239.8	3212.5	3276.2	3308.0
55°	14820.2	10156.2	3440.0	3239.8	3235.2	3198.8	3148.8	3107.8	3094.2	3103.3	3167.0
57.5°	14729.2	9974.2	3353.5	3080.5	3071.4	3021.4	2971.3	2957.7	2953.1	2962.2	2980.4
60°	11958.1	7366.9	2994.1	2898.5	2884.9	2875.8	2825.7	2771.1	2743.8	2771.1	2748.4
62.5°	7912.9	4932.5	2639.1	2680.1	2689.2	2666.4	2584.5	2529.9	2539.0	2570.9	2520.8
65°	3885.9	2898.5	2393.4	2502.6	2511.7	2448.0	2370.7	2307.0	2275.1	2302.4	2279.7
67.5°	2220.5	2216.0	2193.2	2307.0	2302.4	2238.7	2115.9	2061.3	2006.7	2015.8	2002.1
70°	1883.8	1920.2	1965.7	2034.0	2029.4	1956.6	1811.0	1770.0	1692.7	1683.6	1660.8
72.5°	1483.4	1547.1	1647.2	1697.2	1656.3	1565.3	1469.7	1401.5	1333.2	1292.3	1305.9
75°	1101.2	1192.2	1246.8	1278.6	1214.9	1164.9	1087.5	1005.6	923.7	887.3	873.6
77.5°	800.8	828.1	878.2	900.9	860.0	809.9	764.4	682.5	605.2	555.1	541.5
80°	559.7	577.9	614.3	614.3	614.3	591.5	532.4	450.5	400.4	354.9	345.8
82.5°	391.3	409.5	445.9	427.7	423.2	395.9	359.5	295.8	241.2	209.3	200.2
85°	136.5	150.2	182.0	218.4	232.1	227.5	204.8	163.8	127.4	104.7	95.6
87.5°	31.9	31.9	36.4	31.9	31.9	36.4	31.9	31.9	31.9	22.8	18.2
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)