

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: P652470

Luminaire Tested: **GALN-SA6B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24772.5 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

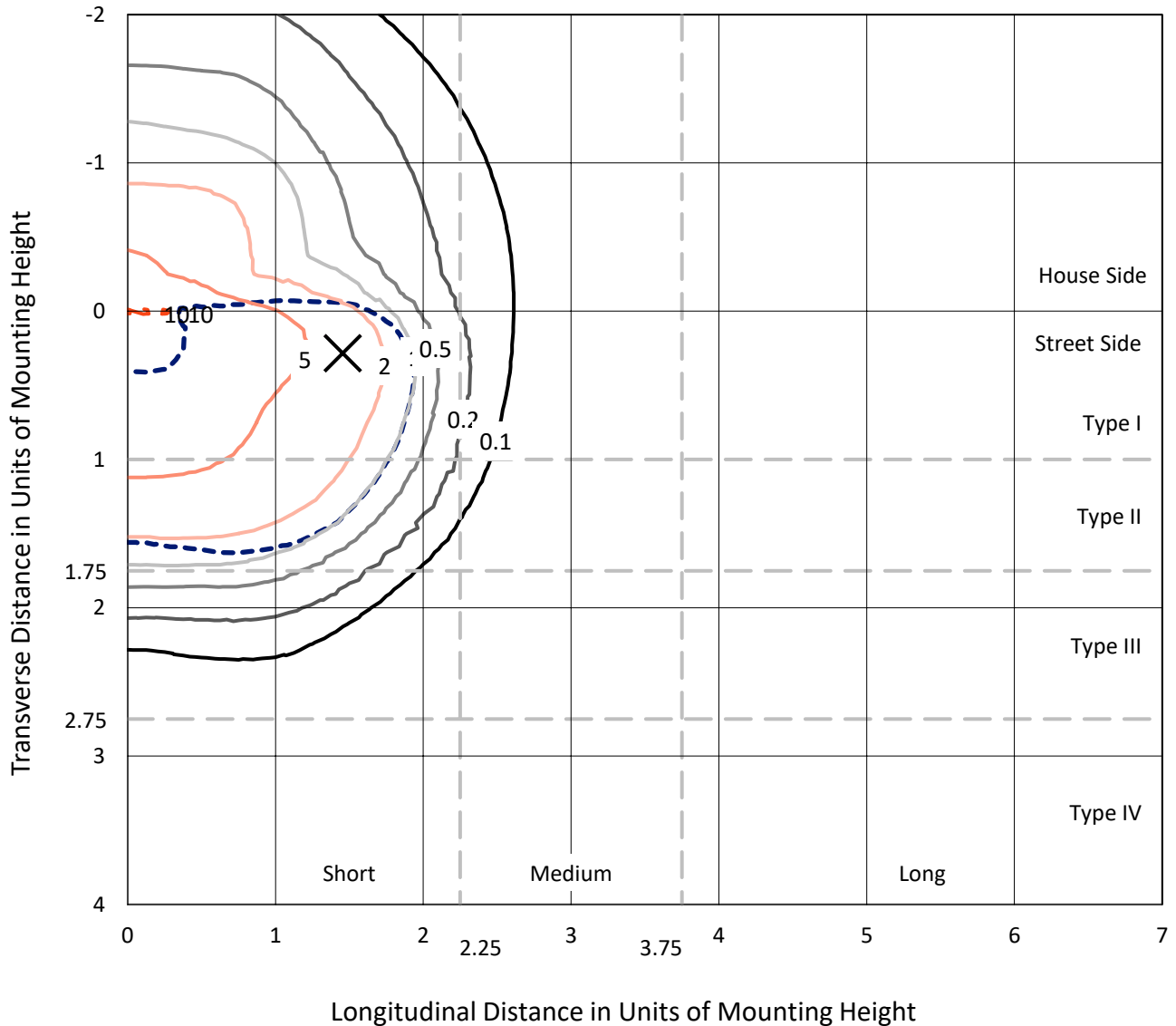
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

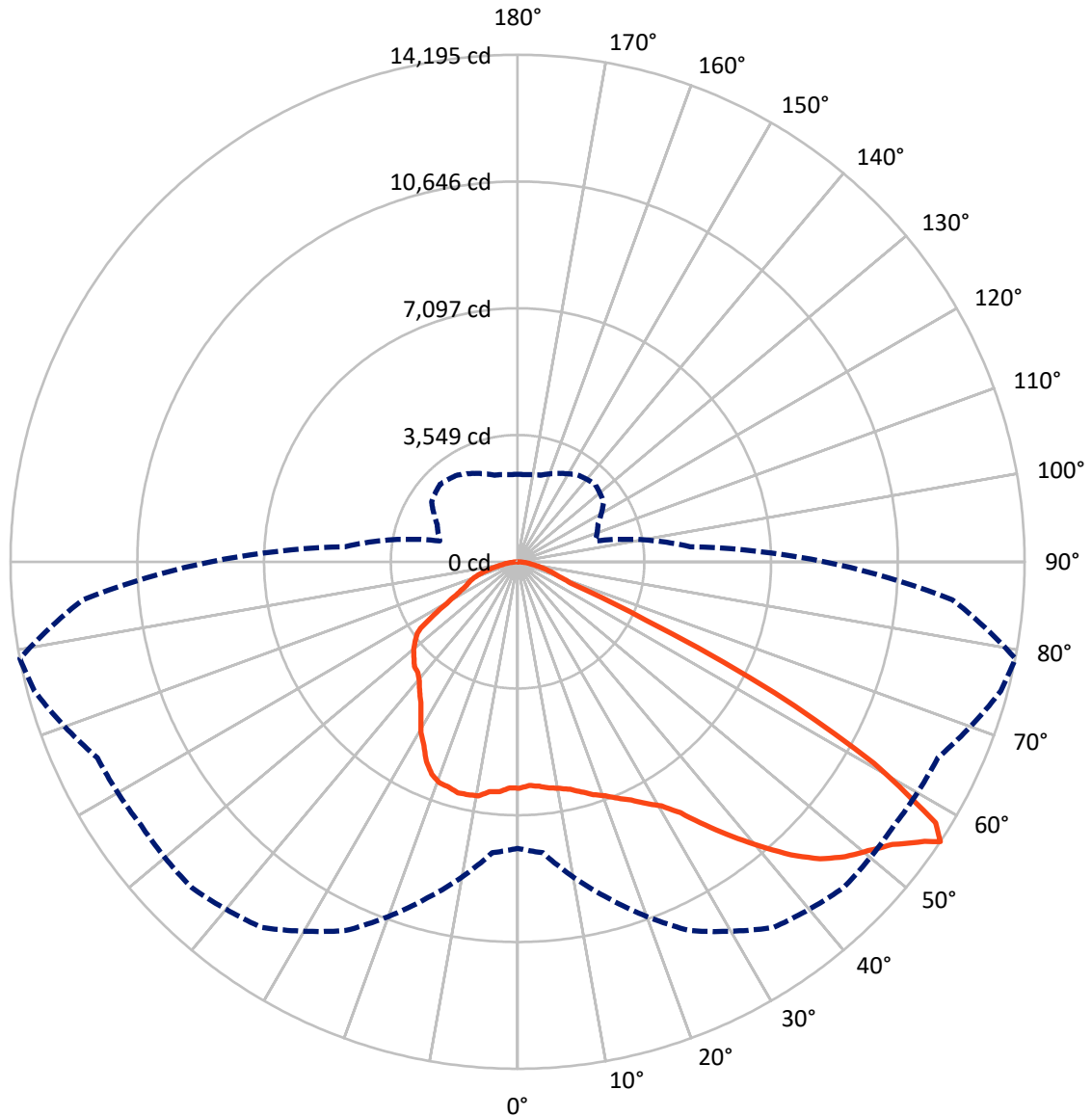
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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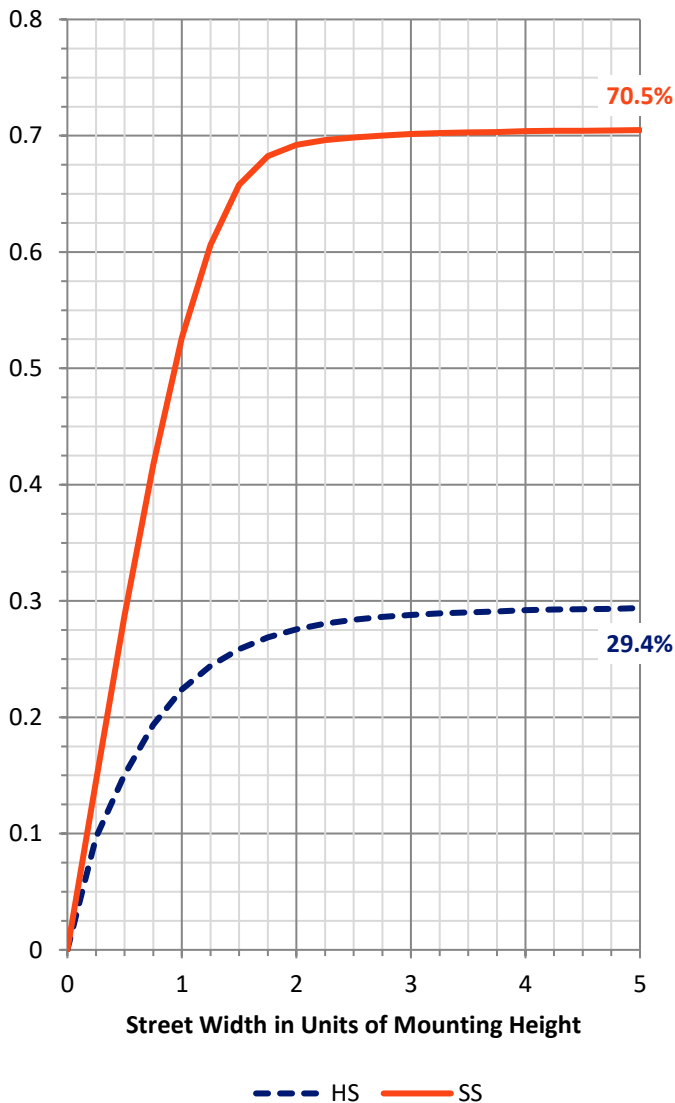
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7315.9	0.0	7315.9
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	17456.6	0.0	17456.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	24772.5	0.0	24772.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.3	2.3
10°-20°	1577.1	6.4
20°-30°	2698.1	10.9
30°-40°	4135.2	16.7
40°-50°	5588.7	22.6
50°-60°	6418.8	25.9
60°-70°	2925.9	11.8
70°-80°	721.4	2.9
80°-90°	131.1	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°	24772.5	100.0
0°-180°	24772.5	100.0



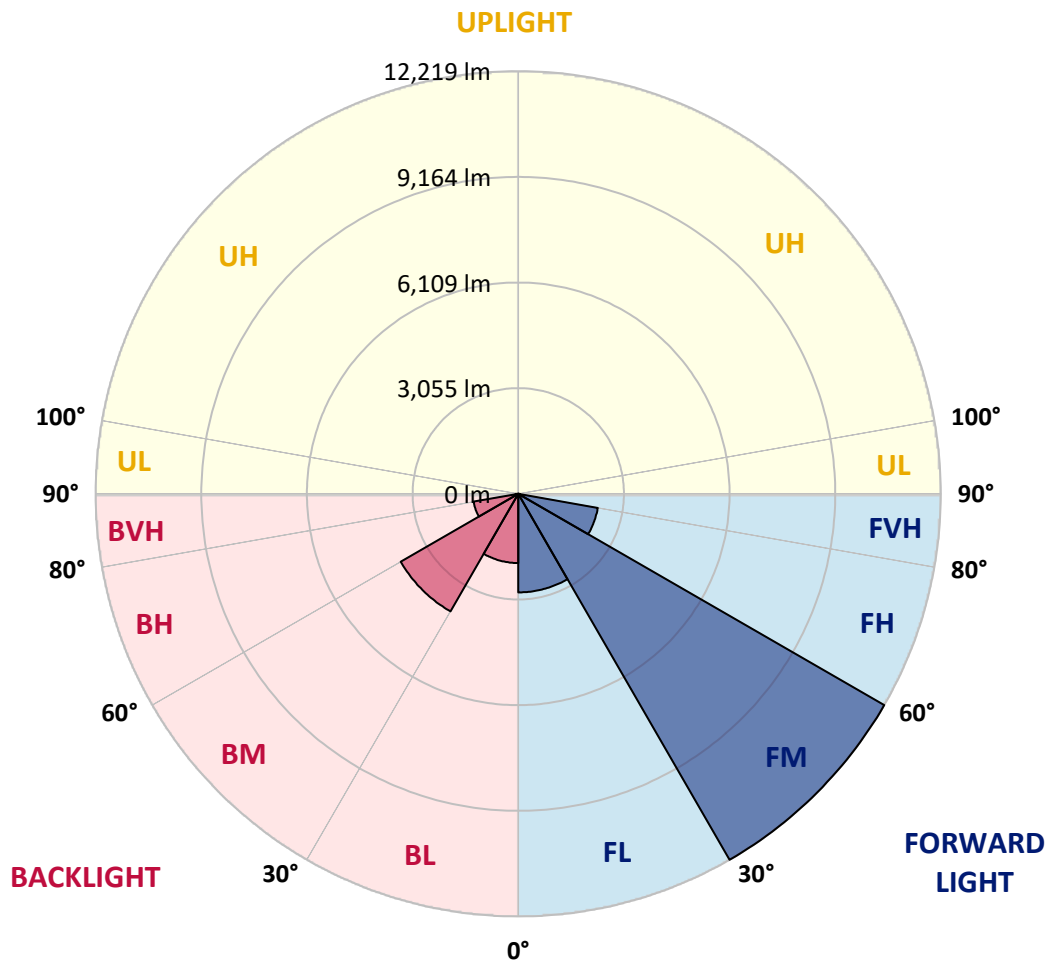
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2850.3	11.5			
FM (30°-60°)	12218.5	49.3			
FH (60°-80°)	2335.5	9.4			G2/5000
FVH (80°-90°)	52.4	0.2			G1/100
BL (0°-30°)	2001.2	8.1	B3/2500		
BM (30°-60°)	3924.1	15.8	B3/5000		
BH (60°-80°)	1311.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	78.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3
2.5°	6029.7	6014.3	6051.3	6079.1	6113.1	6156.2	6177.8	6190.2	6298.2	6270.4	6353.8
5°	5900.1	5860.0	5887.8	5909.4	5968.0	6020.5	6079.1	6171.7	6270.4	6313.6	6415.5
7.5°	5785.9	5764.3	5758.2	5773.6	5853.9	5921.7	6023.6	6159.3	6319.8	6390.8	6449.4
10°	5597.7	5566.8	5613.2	5714.9	5736.5	5878.5	5995.7	6190.2	6329.0	6452.5	6625.3
12.5°	5514.4	5483.5	5492.8	5551.4	5702.7	5838.4	5977.2	6196.3	6489.5	6538.9	6770.3
15°	5647.1	5616.2	5625.4	5610.1	5755.0	5826.0	6045.1	6319.8	6600.6	6683.9	6930.8
17.5°	5949.5	5952.6	5912.5	5878.5	5844.5	5995.7	6147.0	6393.9	6643.8	6853.6	7038.7
20°	6526.5	6424.7	6344.5	6153.2	6100.7	6165.5	6356.8	6594.4	6819.7	6992.5	7202.3
22.5°	6970.9	6980.1	6866.0	6551.2	6437.0	6464.9	6628.3	6822.8	7069.6	7193.1	7433.8
25°	7615.8	7551.0	7427.6	7177.7	6921.5	6943.1	7063.5	7239.3	7307.3	7393.7	7656.0
27.5°	8205.2	8223.7	7980.0	7745.4	7427.6	7365.9	7581.9	7612.7	7498.6	7662.1	7751.6
30°	8803.8	8788.4	8628.0	8353.3	8041.6	8054.0	8149.7	7998.5	7841.1	7930.6	7992.3
32.5°	9424.2	9248.2	9242.1	8995.2	8757.6	8643.4	8526.1	8600.2	8356.4	8374.9	8316.3
35°	9920.9	9945.7	9803.7	9627.8	9510.5	9310.0	8989.0	9121.7	9075.4	9053.9	8800.8
37.5°	10282.0	10186.4	10257.3	10198.6	10087.6	9837.6	9504.4	9630.9	9652.5	9757.4	9464.3
40°	10578.3	10538.2	10726.4	10757.2	10680.0	10140.0	9541.4	9917.8	10241.9	10470.2	10121.5
42.5°	10720.1	10806.6	11004.1	11241.7	11068.9	10491.8	9732.7	10137.0	10859.1	11220.1	10744.9
45°	10911.5	10800.4	11093.5	11528.7	11531.8	10788.1	9917.8	10433.2	11340.5	11865.0	11170.8
47.5°	10717.1	10772.6	11075.0	11627.4	11769.4	11099.8	10417.8	10852.9	11871.2	12337.1	11565.7
50°	10282.0	10393.1	10945.4	11519.4	11948.3	11429.9	10991.7	11306.5	12361.9	12716.7	11630.5
52.5°	9828.3	9890.1	10754.1	11602.8	12028.6	11855.7	11760.1	11932.9	12960.5	13145.7	11710.8
55°	8594.0	8887.2	10121.5	11565.7	12420.5	12624.2	12550.1	12803.1	13639.4	13824.5	12148.9
56°	8023.1	8177.5	9742.0	11392.9	12497.6	12905.0	12867.9	12982.1	14000.5	14194.8	12216.8
57.5°	6967.8	6980.1	8307.1	10627.6	12207.5	12988.2	12951.2	13040.7	13929.5	13796.8	11621.3
60°	4360.2	4551.6	5653.3	8174.4	10380.7	12050.2	12260.0	11541.0	11744.6	11463.8	9041.5
62.5°	2258.8	2231.1	2962.4	4780.0	6890.6	8628.0	8822.4	8788.4	8473.7	8063.3	5906.3
65°	1126.4	1132.5	1549.1	2366.8	3530.2	4517.7	5060.8	5119.4	4283.1	3940.6	2802.0
67.5°	817.7	848.6	1114.0	1447.3	1663.2	1860.8	2280.5	2237.2	1694.1	1610.8	1493.5
70°	635.7	663.5	904.2	1104.7	1002.9	1002.9	1092.4	1129.4	1206.6	1240.5	1280.6
72.5°	462.9	484.5	691.2	762.2	657.2	706.7	817.7	904.2	984.4	996.8	1043.0
75°	317.8	336.3	453.6	419.7	395.0	487.5	598.6	678.9	737.5	768.3	796.2
77.5°	206.7	212.9	259.2	219.1	253.1	314.8	388.8	456.7	515.4	540.0	546.2
80°	92.6	101.8	111.1	138.8	175.9	225.3	277.7	333.3	370.3	379.5	398.0
82.5°	52.5	52.5	67.9	98.7	129.6	163.6	200.6	240.7	283.9	293.2	290.1
85°	27.8	27.8	40.1	58.6	80.2	95.6	92.6	95.6	101.8	117.2	114.2
87.5°	9.3	9.3	12.4	12.4	15.4	18.5	15.4	21.6	27.8	27.8	27.8
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°	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3	6338.3
2.5°	6329.0	6356.8	6319.8	6400.0	6400.0	6384.6	6307.4	6332.1	6350.6	6350.6	6366.0
5°	6449.4	6440.1	6464.9	6369.1	6310.5	6288.9	6162.4	6100.7	6048.2	6045.1	5998.9
7.5°	6517.2	6492.6	6483.4	6412.4	6153.2	5995.7	5724.2	5566.8	5532.9	5412.6	5458.8
10°	6625.3	6671.6	6625.3	6239.5	5878.5	5517.5	5252.1	5008.3	4912.6	4835.5	4789.2
12.5°	6847.4	6825.9	6557.4	6035.9	5529.8	5100.9	4705.9	4449.7	4354.1	4286.2	4280.0
15°	7035.7	6927.7	6517.2	5714.9	4986.7	4530.0	4206.0	4023.9	3980.7	3986.9	4014.7
17.5°	7100.5	7026.5	6307.4	5381.7	4582.4	4045.5	3894.3	3866.6	3906.7	3953.0	3965.3
20°	7202.3	7085.1	6221.0	4928.1	4082.6	3743.1	3733.9	3832.6	3906.7	3974.6	3983.8
22.5°	7415.3	7119.0	5940.2	4499.2	3740.0	3653.6	3743.1	3826.5	3940.6	3996.2	3946.8
25°	7477.0	7045.0	5545.2	3983.8	3524.0	3598.1	3693.8	3807.9	3888.1	3919.0	3940.6
27.5°	7529.5	6930.8	5011.4	3641.3	3456.2	3595.0	3693.8	3789.4	3832.6	3860.4	3885.1
30°	7677.6	6896.9	4548.5	3412.9	3412.9	3533.3	3659.8	3684.5	3743.1	3777.1	3820.2
32.5°	7751.6	6662.3	4073.3	3267.9	3369.7	3564.2	3573.4	3619.7	3622.8	3650.5	3604.3
35°	7946.0	6495.7	3632.0	3163.0	3388.2	3533.3	3579.5	3551.8	3400.6	3326.5	3342.0
37.5°	8088.0	6412.4	3314.2	3150.6	3391.3	3567.2	3591.9	3382.1	3224.7	3101.3	3132.1
40°	8470.6	6205.6	3073.5	3129.0	3419.1	3604.3	3536.4	3308.0	3024.2	2897.6	2876.0
42.5°	8763.7	6057.5	2922.3	3104.4	3440.7	3656.8	3508.6	3159.9	2869.8	2752.6	2783.5
45°	9103.2	6023.6	2842.1	3110.5	3477.7	3684.5	3474.7	3045.7	2737.1	2690.9	2681.6
47.5°	9223.6	5779.8	2755.6	3058.0	3468.5	3675.3	3360.5	2959.3	2687.8	2693.9	2718.6
50°	9023.0	5529.8	2690.9	2950.1	3406.7	3591.9	3181.5	2845.1	2660.0	2737.1	2780.3
52.5°	8766.8	5273.7	2558.2	2805.0	3280.2	3462.3	3098.2	2839.0	2632.2	2607.5	2616.8
55°	8844.0	5063.8	2373.0	2607.5	3076.5	3221.6	3005.6	2780.3	2564.3	2471.8	2502.6
56°	8594.0	4847.9	2252.6	2484.1	2937.7	3067.3	2959.3	2727.9	2508.8	2447.1	2447.1
57.5°	7887.4	4122.7	2095.3	2286.6	2644.5	2798.8	2869.8	2697.0	2447.1	2339.1	2342.2
60°	5816.8	2931.6	1879.3	2015.0	2191.0	2314.3	2644.5	2610.6	2292.7	2218.7	2191.0
62.5°	3585.8	2141.6	1725.0	1777.5	1866.9	1968.8	2308.2	2363.7	2129.2	2049.0	2030.5
65°	2008.9	1638.6	1607.7	1629.4	1672.5	1725.0	1916.3	2039.8	1879.3	1755.8	1749.7
67.5°	1468.9	1465.8	1490.4	1509.0	1527.5	1527.5	1573.8	1623.1	1601.5	1502.8	1493.5
70°	1305.3	1314.6	1333.1	1336.2	1342.3	1320.7	1283.7	1268.3	1293.0	1231.2	1218.9
72.5°	1077.0	1107.8	1129.4	1132.5	1098.6	1070.8	1021.4	968.9	950.4	938.1	935.0
75°	827.0	848.6	857.8	854.8	842.4	802.3	743.7	691.2	657.2	620.2	638.7
77.5°	558.5	589.4	604.8	604.8	586.3	524.6	496.8	456.7	422.8	382.7	388.8
80°	391.9	413.5	438.2	435.1	404.3	373.4	333.3	296.2	268.4	237.6	234.6
82.5°	293.2	305.5	317.8	311.7	290.1	259.2	231.4	197.5	166.6	145.1	145.1
85°	105.0	114.2	138.8	145.1	157.4	157.4	132.7	111.1	89.5	74.1	74.1
87.5°	30.9	30.9	34.0	34.0	30.9	34.0	27.8	30.9	34.0	21.6	21.6
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)