

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: P652446

Luminaire Tested: **GALN-SA6B-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28126.4 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

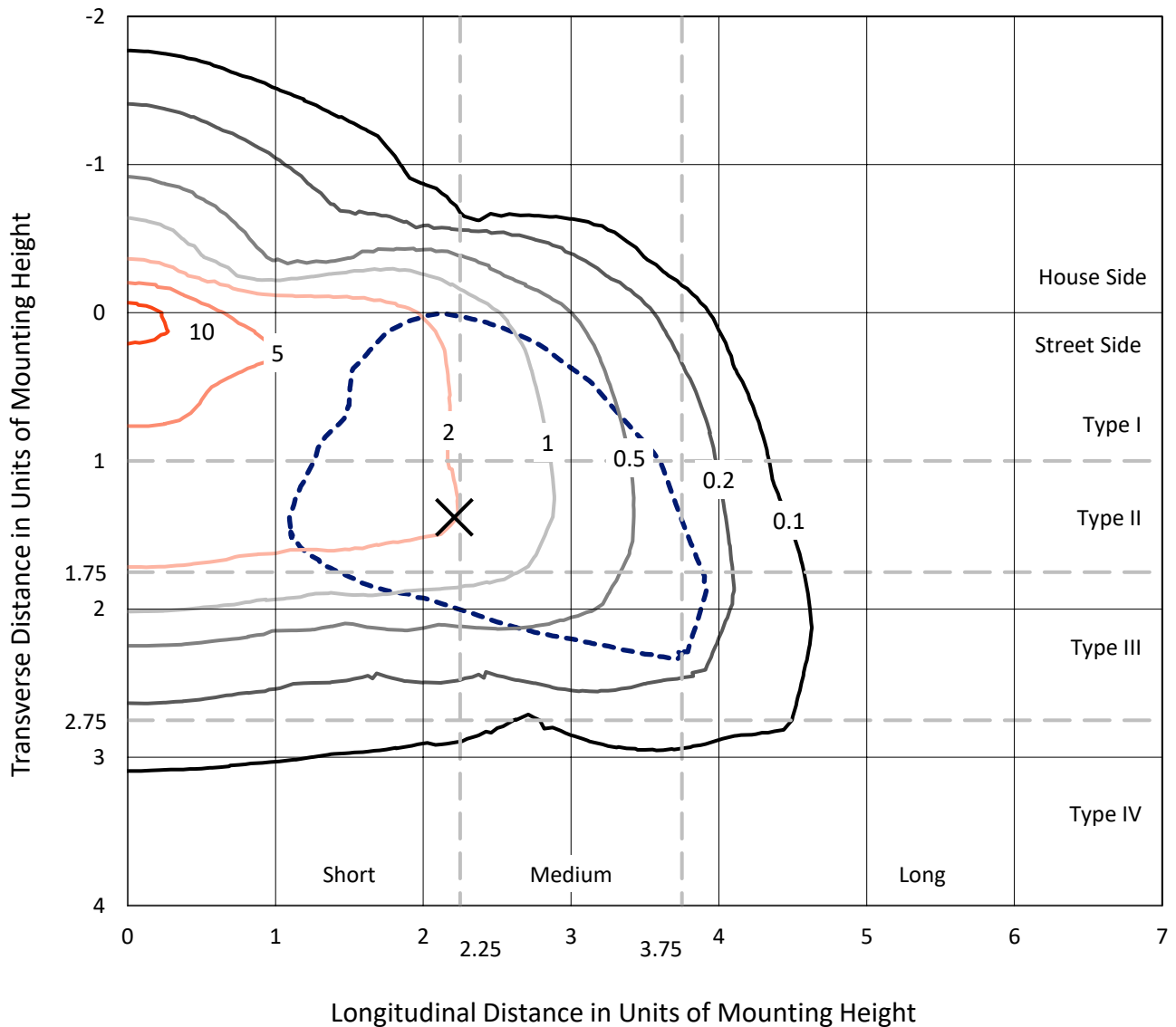
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

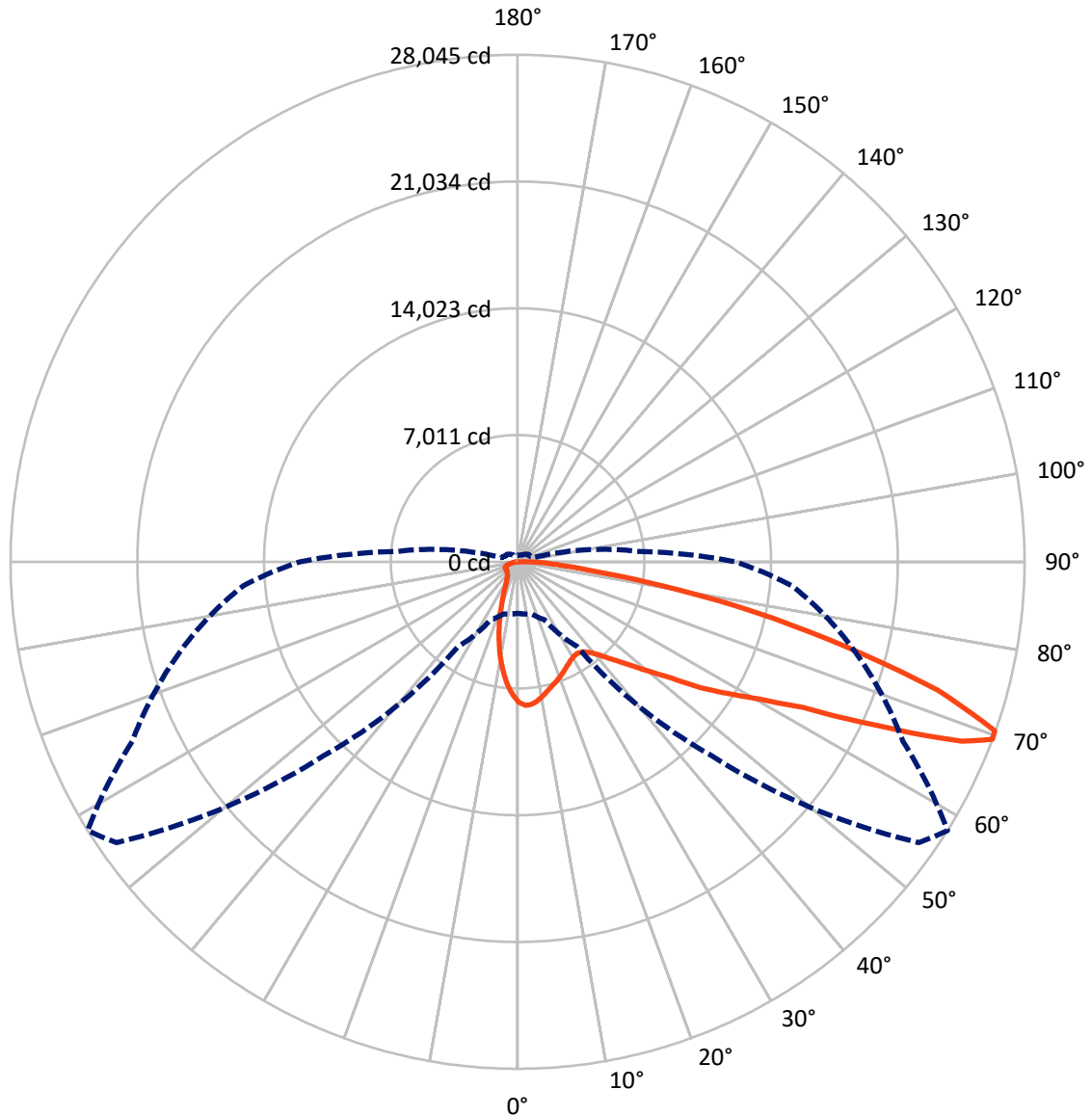
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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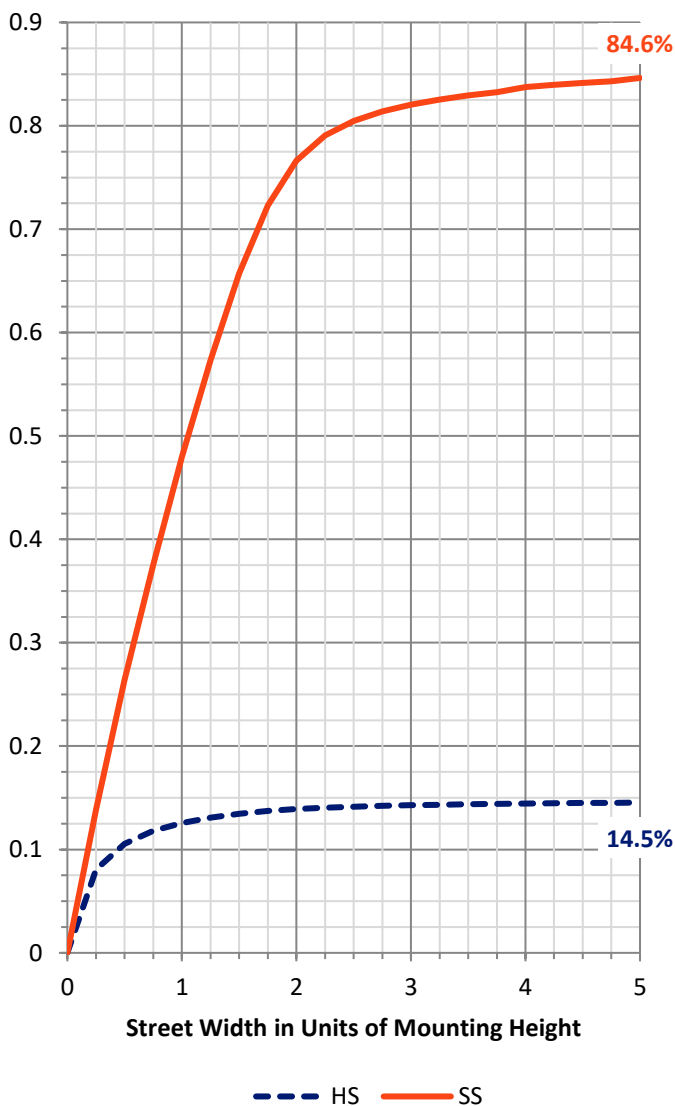
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4121.9	0.0	4121.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24004.5	0.0	24004.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	28126.4	0.0	28126.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.1	2.3
10°-20°	1449.4	5.2
20°-30°	1872.7	6.7
30°-40°	2432.2	8.6
40°-50°	3536.1	12.6
50°-60°	5642.4	20.1
60°-70°	7537.6	26.8
70°-80°	4345.1	15.4
80°-90°	650.8	2.3
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°	28126.4	100.0
0°-180°	28126.4	100.0

Coefficient of Utilization

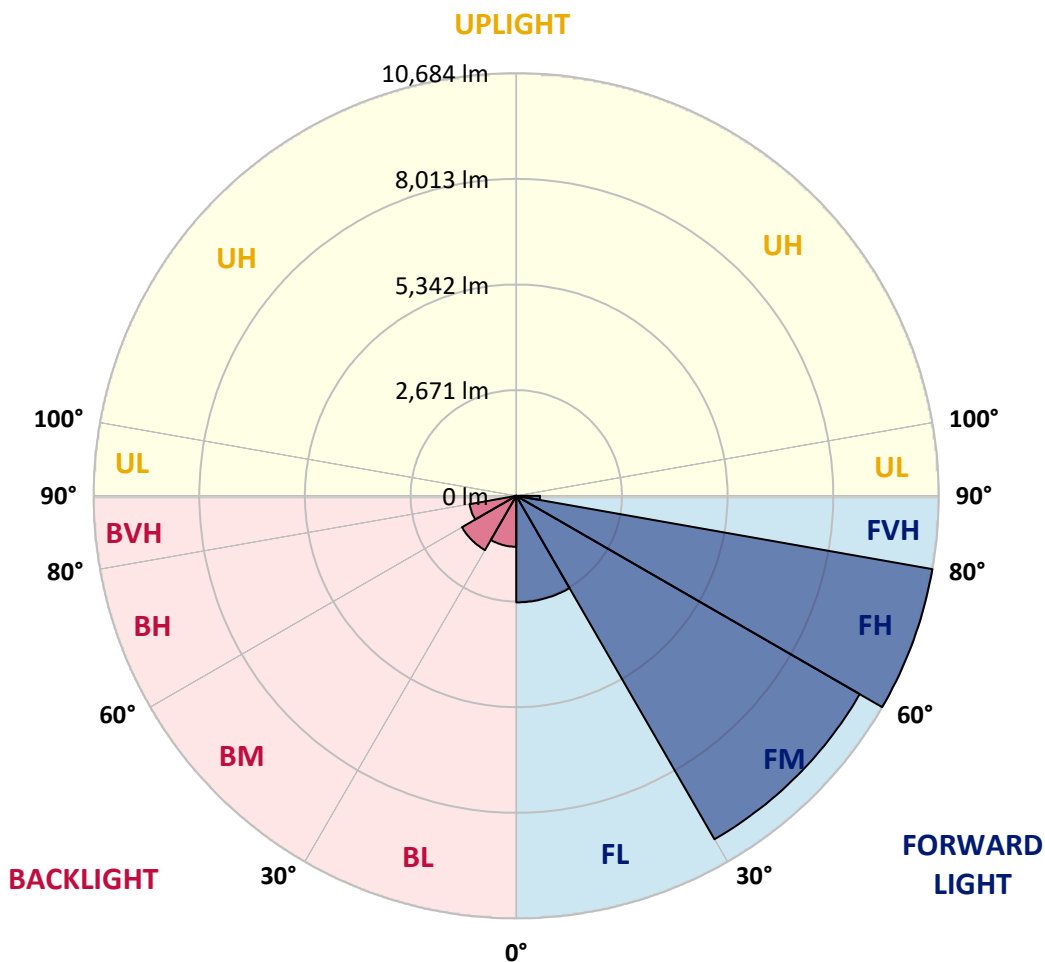


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2693.8	9.6			
FM	(30°-60°)	10025.6	35.6			
FH	(60°-80°)	10684.1	38.0			G4/12000
FVH	(80°-90°)	600.9	2.1			G4/750
BL	(0°-30°)	1288.3	4.6	B3/2500		
BM	(30°-60°)	1585.1	5.6	B2/2500		
BH	(60°-80°)	1198.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	49.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5
2.5°	8061.2	8083.1	8076.8	8069.0	8056.4	8021.9	7965.4	7956.0	7919.9	7843.1	7747.4
5°	7937.2	7956.0	7957.6	7968.6	7984.3	7978.0	7937.2	7932.5	7879.2	7775.6	7615.6
7.5°	7512.1	7537.2	7592.1	7653.3	7708.2	7759.9	7772.5	7780.3	7747.4	7628.2	7414.8
10°	7033.7	7058.8	7083.8	7174.8	7309.7	7438.4	7545.0	7559.2	7567.0	7457.2	7196.8
12.5°	6503.5	6555.3	6608.6	6743.5	6923.9	7126.2	7314.4	7344.3	7397.6	7314.4	7008.6
15°	6053.3	6106.6	6183.5	6304.3	6522.3	6814.0	7079.2	7127.8	7232.9	7190.6	6832.9
17.5°	5741.2	5759.9	5813.3	5951.3	6186.6	6494.0	6848.6	6945.8	7113.7	7102.7	6682.3
20°	5494.8	5518.4	5551.4	5636.0	5880.8	6205.4	6633.6	6759.2	6986.6	7024.3	6533.3
22.5°	5391.3	5408.6	5403.8	5449.3	5615.6	5941.9	6415.7	6564.7	6873.7	6971.0	6395.2
25°	5397.6	5413.3	5389.8	5378.8	5477.6	5709.8	6188.2	6378.0	6782.7	6934.9	6269.7
27.5°	5502.7	5513.7	5469.8	5425.9	5433.7	5565.5	5999.9	6210.1	6705.8	6950.5	6164.7
30°	5643.9	5664.3	5636.0	5582.7	5524.7	5530.9	5879.2	6086.2	6669.7	7005.4	6114.5
32.5°	5825.9	5844.7	5832.1	5789.8	5714.4	5631.3	5849.4	6040.7	6672.9	7116.8	6103.5
35°	6017.2	6054.9	6075.2	6072.1	6011.0	5866.6	5967.0	6125.4	6748.2	7303.5	6167.8
37.5°	6233.7	6265.0	6352.9	6409.3	6352.9	6185.1	6232.1	6341.9	6914.4	7573.3	6309.0
40°	6443.9	6490.9	6619.6	6795.3	6773.2	6625.8	6636.8	6709.0	7207.8	7974.9	6585.0
42.5°	6663.5	6719.9	6944.2	7204.7	7256.4	7141.9	7171.7	7236.0	7625.0	8531.7	7058.8
45°	6945.8	7013.3	7289.4	7614.1	7818.0	7747.4	7832.1	7863.4	8183.4	9256.4	7683.0
47.5°	7309.7	7388.2	7728.5	8133.3	8421.9	8486.2	8633.6	8614.9	8875.2	10114.5	8492.5
50°	7923.1	7967.0	8288.6	8701.1	9097.9	9388.2	9548.1	9578.0	9733.2	10949.0	9397.6
52.5°	8652.5	8691.7	8923.9	9284.6	9781.9	10396.8	10792.0	10694.8	10732.5	11965.4	10456.4
55°	9472.9	9538.8	9686.2	9926.2	10570.9	11476.0	12269.7	12293.2	11876.0	12937.9	11471.3
57.5°	10108.1	10219.5	10472.0	10814.0	11631.3	12676.0	13742.6	13758.3	13225.0	13976.3	12591.3
60°	9788.1	9919.9	10497.2	11330.1	13022.6	14770.1	15502.7	15413.3	14537.9	15159.1	13957.6
62.5°	8407.8	8431.3	9270.5	10572.5	13450.9	17571.6	18122.2	17744.2	16290.1	16658.7	15345.7
65°	5441.5	5595.3	6260.3	8084.6	12043.8	19126.1	22712.0	21838.2	18746.6	18360.6	16508.1
67.5°	3435.2	3396.0	3672.1	4616.4	8283.8	17756.7	26628.8	26490.7	21959.0	19435.2	16230.5
69°	2848.6	2892.5	2986.6	3538.8	5700.4	15160.7	27091.6	28045.2	23516.7	19350.5	15221.8
70°	2583.6	2603.9	2702.7	3137.3	4398.4	12697.9	26332.4	28002.9	24128.5	18995.9	14490.9
72.5°	2050.2	2048.6	2218.1	2610.2	3287.8	7248.6	21621.8	24312.0	23444.6	17345.8	11973.2
75°	1557.6	1582.8	1769.4	2208.6	3029.0	3960.8	15088.5	18723.0	18724.5	13700.3	7471.3
77.5°	1123.2	1138.8	1356.9	1854.1	2853.3	3210.9	10050.1	13428.9	12624.3	6277.6	2348.2
80°	735.7	745.1	911.4	1468.2	2572.5	3029.0	5959.2	8219.5	5954.4	1665.9	776.5
82.5°	403.2	450.2	556.8	950.6	2064.3	2798.4	3621.9	4160.0	2233.7	741.9	404.7
85°	202.3	214.9	313.7	555.3	1349.0	2315.3	2522.3	2385.8	1152.9	368.6	210.2
87.5°	59.6	75.3	130.2	214.9	547.4	1206.2	1403.9	1259.6	443.9	133.3	43.9
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°	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5	7772.5
2.5°	7708.2	7679.9	7554.5	7441.5	7338.0	7228.1	7135.6	7054.1	7061.9	7063.5	6980.3
5°	7532.5	7468.2	7229.7	7007.0	6818.7	6580.3	6376.5	6244.7	6178.7	6090.9	6122.3
7.5°	7294.1	7170.1	6839.2	6469.0	6122.3	5813.3	5477.6	5247.0	5099.6	4956.9	4975.6
10°	7047.8	6848.6	6367.0	5877.6	5429.0	4934.9	4506.7	4139.6	3866.7	3764.7	3697.2
12.5°	6795.3	6533.3	5921.6	5270.5	4651.0	4059.6	3452.6	3058.8	2757.6	2597.6	2618.0
15°	6564.7	6246.2	5457.2	4663.5	3858.8	3154.5	2549.0	2174.1	1963.9	1920.0	1945.1
17.5°	6351.3	5934.1	5022.7	4073.7	3134.1	2365.5	1915.3	1703.5	1618.8	1595.3	1593.7
20°	6131.7	5669.0	4534.8	3443.1	2442.3	1833.7	1571.7	1472.9	1457.3	1466.6	1468.2
22.5°	5909.0	5341.1	4032.9	2817.3	1945.1	1499.6	1374.1	1347.5	1360.0	1381.9	1385.1
25°	5703.5	5052.5	3549.8	2268.2	1552.9	1317.7	1256.5	1256.5	1284.7	1317.7	1319.2
27.5°	5534.1	4773.3	3068.2	1800.7	1300.4	1185.9	1165.5	1176.5	1215.7	1240.8	1242.3
30°	5394.5	4512.9	2613.3	1443.2	1143.5	1080.8	1076.1	1094.9	1123.2	1146.6	1148.2
32.5°	5289.4	4283.9	2188.2	1212.6	1035.3	1000.8	999.2	1013.3	1029.0	1035.3	1041.6
35°	5248.6	4094.1	1799.2	1066.6	963.1	941.2	941.2	939.6	945.9	949.0	952.2
37.5°	5281.6	3948.2	1498.0	972.5	909.8	894.2	884.7	875.3	872.1	872.1	873.7
40°	5421.2	3871.4	1273.7	911.4	872.1	848.7	831.3	820.4	809.4	812.6	815.7
42.5°	5717.6	3885.4	1121.6	870.6	839.2	806.3	781.2	768.6	760.8	770.2	768.6
45°	6189.8	4026.6	1024.3	842.3	806.3	763.9	740.4	727.8	727.8	741.9	746.6
47.5°	6850.1	4296.4	972.5	820.4	781.2	731.0	707.4	698.0	701.1	724.7	726.3
50°	7656.4	4765.4	963.1	809.4	768.6	707.4	680.8	671.4	679.2	704.3	707.4
52.5°	8545.8	5369.4	1008.6	811.0	757.7	693.3	658.8	644.7	652.5	673.0	679.2
55°	9599.9	6125.4	1126.3	817.3	741.9	685.5	643.1	611.7	621.2	635.3	636.9
57.5°	10676.0	7079.2	1333.3	818.8	729.4	671.4	616.5	575.7	575.7	585.1	589.8
60°	11990.5	8117.6	1606.2	820.4	731.0	650.9	580.4	534.9	528.7	533.4	534.9
62.5°	13295.6	8986.6	1651.7	815.7	746.6	630.6	541.2	494.1	483.2	481.6	478.4
65°	13871.3	8825.0	1353.7	793.7	763.9	618.1	509.8	454.9	436.1	429.8	429.8
67.5°	12933.2	7465.1	1018.0	763.9	752.9	605.5	480.0	421.9	400.0	387.4	387.4
69°	12051.7	6639.9	914.5	743.5	724.7	585.1	461.2	404.7	378.0	363.9	359.2
70°	11370.9	6072.1	870.6	726.3	698.0	561.5	447.1	392.2	362.4	346.7	343.5
72.5°	9074.5	4763.8	762.4	660.4	594.5	472.1	396.9	353.0	324.7	307.5	302.8
75°	5229.8	2582.0	632.2	574.2	478.4	367.1	335.6	307.5	285.5	269.8	265.1
77.5°	1609.4	997.7	458.0	453.3	351.4	283.9	268.2	257.3	241.5	224.3	221.2
80°	677.7	508.2	310.6	305.9	233.7	197.6	192.9	191.4	185.1	171.0	166.3
82.5°	371.7	287.0	216.5	188.2	141.2	114.5	119.3	120.8	116.1	101.9	92.5
85°	182.0	156.8	105.1	84.7	64.3	40.8	39.2	47.1	43.9	31.4	34.5
87.5°	36.1	43.9	28.3	12.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0
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)