

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: P652613

Luminaire Tested: **GALN-SA9B-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42464.6 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

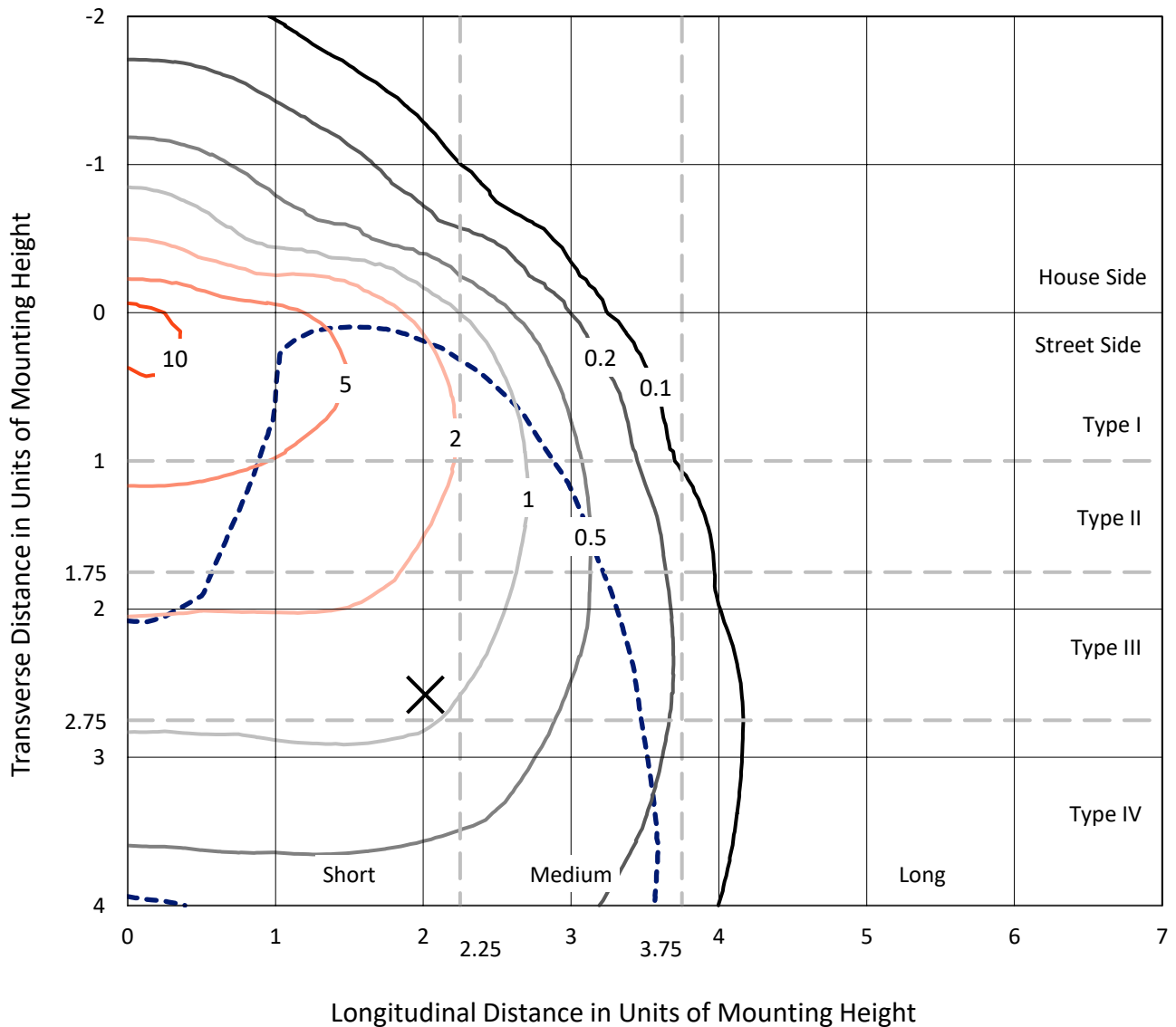
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

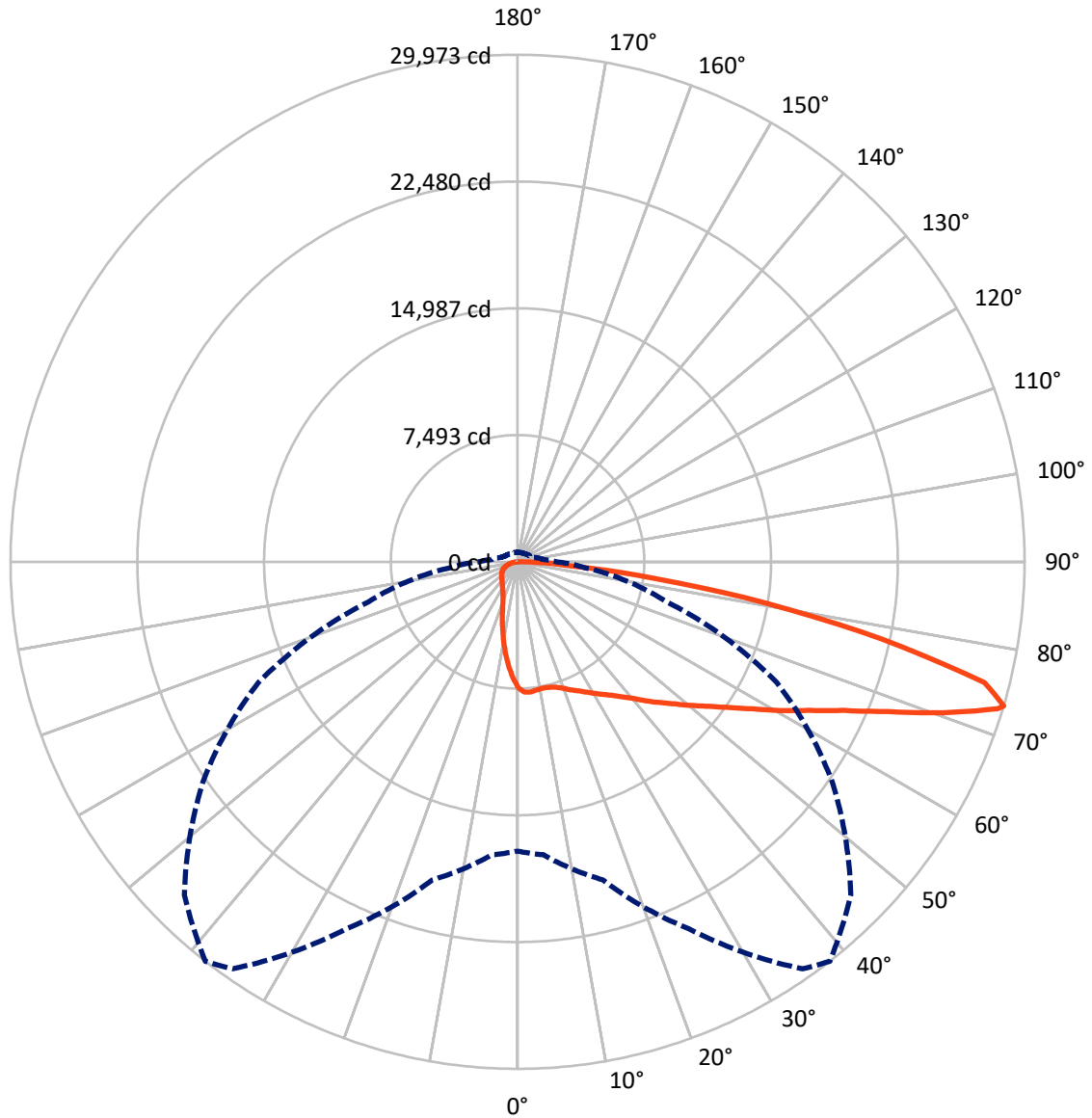
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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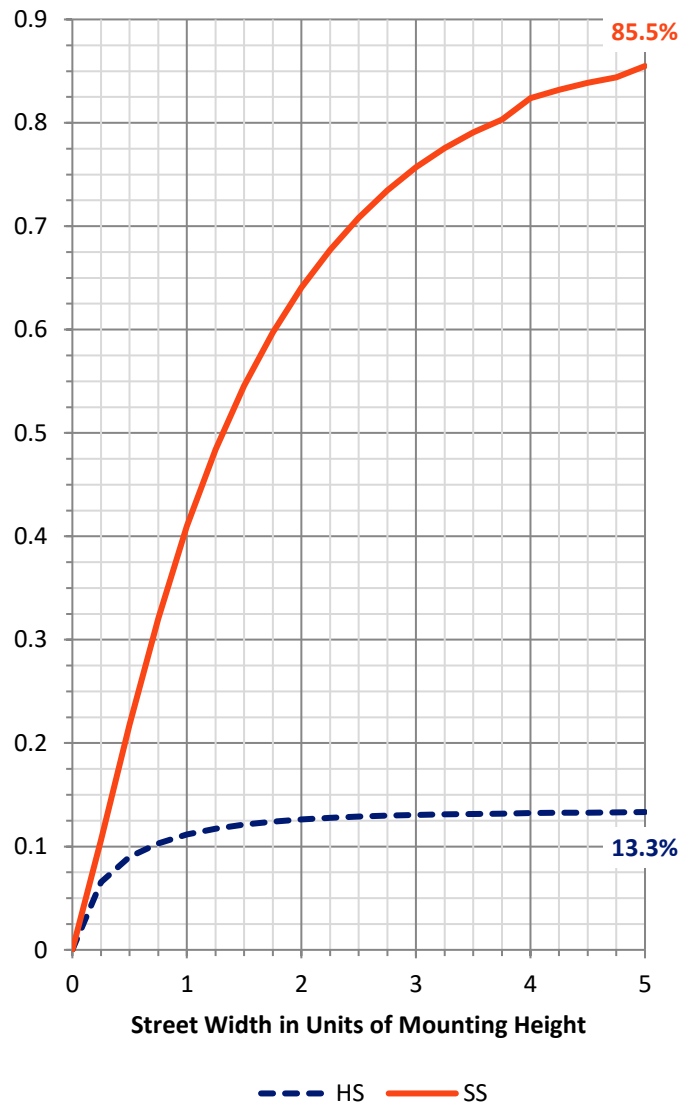
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5708.5	0.0	5708.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	36756.1	0.0	36756.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	42464.6	0.0	42464.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.2	1.5
10°-20°	1669.9	3.9
20°-30°	2600.4	6.1
30°-40°	3814.1	9.0
40°-50°	5657.8	13.3
50°-60°	8016.0	18.9
60°-70°	10168.5	23.9
70°-80°	8464.5	19.9
80°-90°	1422.2	3.3
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°	42464.6	100.0
0°-180°	42464.6	100.0

Coefficient of Utilization

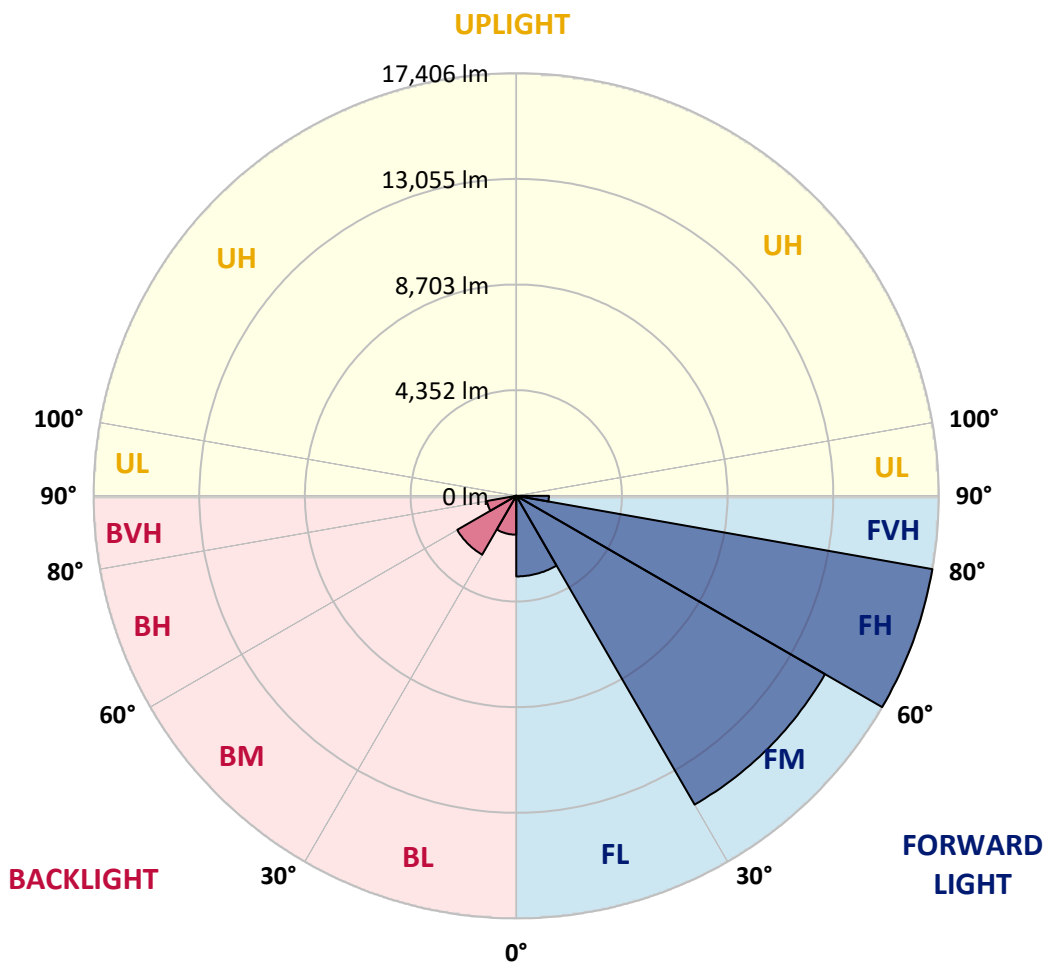


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3319.6	7.8			
FM (30°-60°)	14685.4	34.6			
FH (60°-80°)	17406.1	41.0			G5
FVH (80°-90°)	1345.1	3.2			G5
BL (0°-30°)	1601.9	3.8	B3/2500		
BM (30°-60°)	2802.5	6.6	B3/5000		
BH (60°-80°)	1227.0	2.9	B3/2500		G3/2500
BVH (80°-90°)	77.1	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3
2.5°	7760.1	7798.4	7779.2	7752.8	7736.1	7719.3	7695.3	7625.8	7570.6	7510.6	7417.1
5°	7817.6	7841.6	7824.8	7791.3	7752.8	7736.1	7690.5	7599.4	7510.6	7410.0	7270.9
7.5°	7784.0	7793.6	7774.5	7733.7	7700.1	7668.9	7616.2	7515.4	7407.5	7285.2	7103.0
10°	7664.1	7700.1	7700.1	7666.6	7633.0	7616.2	7563.4	7467.5	7369.2	7230.1	7014.3
12.5°	7565.8	7604.2	7635.4	7625.8	7623.4	7623.4	7582.6	7510.6	7395.6	7263.6	7007.0
15°	7498.7	7544.3	7611.4	7649.7	7673.7	7680.9	7664.1	7601.8	7484.3	7330.8	7035.9
17.5°	7484.3	7539.5	7661.8	7745.7	7808.0	7805.7	7800.9	7714.5	7585.0	7426.7	7071.8
20°	7549.1	7621.0	7791.3	7923.1	8014.2	7997.5	7971.1	7858.4	7707.3	7529.9	7105.4
22.5°	7743.3	7817.6	8004.6	8148.5	8237.3	8237.3	8158.1	8009.4	7848.8	7649.7	7150.9
25°	8021.5	8103.0	8302.0	8448.3	8489.1	8457.9	8378.8	8198.9	8014.2	7822.4	7246.9
27.5°	8362.0	8460.3	8645.0	8767.3	8755.2	8731.3	8649.8	8419.5	8234.9	8059.8	7410.0
30°	8786.4	8858.3	9050.3	9079.0	9035.8	9031.0	8915.9	8685.7	8513.0	8378.8	7642.6
32.5°	9186.9	9251.7	9405.2	9417.1	9340.4	9350.0	9242.1	9031.0	8932.7	8884.7	8033.5
35°	9611.4	9644.9	9776.8	9762.4	9712.0	9704.9	9661.7	9460.2	9491.4	9577.8	8587.4
37.5°	9966.3	10033.4	10107.7	10119.8	10117.3	10141.4	10170.1	10074.2	10254.1	10525.0	9314.0
40°	10292.4	10349.9	10460.3	10498.6	10592.1	10640.1	10738.5	10740.8	11155.7	11601.8	10208.5
42.5°	10513.0	10611.3	10817.6	10887.1	11114.9	11258.8	11405.1	11561.0	12162.9	12736.0	11263.6
45°	10704.8	10834.4	11177.3	11393.1	11702.4	11877.5	12186.8	12513.0	13378.7	14129.3	12335.5
47.5°	10995.1	11110.1	11503.5	11884.7	12352.4	12553.8	13016.6	13503.3	14635.3	15457.7	13361.9
50°	11397.9	11467.5	11867.9	12489.0	13086.1	13345.1	13956.6	14659.2	15978.2	16769.5	14263.5
52.5°	11913.4	11942.3	12261.2	13088.5	13875.1	14196.4	15007.0	15827.1	17153.2	17908.6	14978.2
55°	12522.6	12474.6	12724.0	13724.0	14776.7	15196.4	16066.9	17009.3	18474.5	18829.4	15498.5
57.5°	13124.5	13050.1	13249.2	14496.1	15889.4	16395.5	17409.8	18227.5	19654.3	19690.3	15863.0
60°	13762.4	13707.2	13944.6	15402.7	17254.0	17853.4	18791.1	19491.3	20795.8	20289.9	15920.6
62.5°	14417.0	14328.3	14666.5	16421.8	18791.1	19335.4	20244.3	20834.2	21915.7	20512.8	15366.7
65°	15052.6	15011.8	15534.5	17632.8	20541.7	21160.3	22042.8	22443.3	22812.5	20177.1	13992.6
67.5°	15728.8	15810.3	16644.8	19249.1	22824.6	23601.6	24553.6	24177.1	23069.2	18587.2	11784.0
70°	16760.0	16812.7	18102.9	21366.5	25767.0	26704.6	27165.1	24793.4	21831.8	15568.1	8858.3
72.5°	17203.6	17436.2	19405.0	23589.5	29109.9	29683.0	28042.7	23419.3	18186.8	10575.4	4654.6
73°	17105.3	17383.4	19464.9	23927.7	29371.3	29973.2	27855.7	22711.9	16906.2	9107.8	3990.4
75°	15879.8	16222.7	18685.6	23644.7	28862.9	28503.2	24848.5	19357.0	11424.3	4141.4	1817.7
77.5°	12529.8	12628.1	14805.6	19093.2	22728.6	22062.0	18596.9	12098.1	4666.6	1539.5	1031.2
80°	6285.3	6647.3	8345.2	10937.5	15198.8	14980.6	11738.4	5721.7	1944.8	904.1	683.5
82.5°	3023.9	3280.5	4064.7	5333.3	8398.0	8198.9	5812.8	3127.1	1235.0	527.6	402.8
85°	1947.3	2139.1	2587.5	2544.4	3453.1	3297.3	2611.5	2366.9	731.4	275.8	280.6
87.5°	1285.4	1407.7	1688.2	1350.1	1256.5	1136.7	1153.4	1333.3	143.9	105.5	38.3
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°	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3	7460.3
2.5°	7378.8	7347.6	7244.5	7143.8	7047.8	6956.8	6896.8	6817.7	6764.9	6779.3	6800.8
5°	7194.2	7124.6	6942.4	6764.9	6597.1	6398.0	6237.3	6107.8	6009.5	5973.5	5966.3
7.5°	6999.9	6882.4	6621.0	6316.4	6031.1	5784.1	5498.7	5357.3	5191.7	5134.2	5115.0
10°	6882.4	6724.1	6357.2	5932.8	5503.5	5093.4	4784.1	4532.3	4304.5	4261.3	4239.7
12.5°	6848.9	6640.2	6146.2	5599.5	5028.7	4525.1	4067.1	3736.1	3515.5	3465.2	3390.8
15°	6829.6	6570.6	5949.6	5263.7	4539.5	3925.6	3443.6	3057.5	2856.0	2721.8	2724.2
17.5°	6812.9	6491.5	5728.9	4896.8	4117.5	3410.0	2877.6	2529.9	2345.3	2273.3	2266.2
20°	6788.9	6398.0	5474.7	4510.7	3635.5	2940.0	2458.0	2199.0	2074.3	2014.4	2011.9
22.5°	6779.3	6306.8	5225.3	4117.5	3208.6	2577.9	2179.8	1997.5	1918.4	1877.7	1877.7
25°	6803.3	6242.1	4963.9	3743.4	2829.7	2268.5	1988.0	1863.3	1817.7	1796.1	1789.0
27.5°	6877.6	6213.3	4705.0	3369.2	2482.0	2057.5	1858.4	1772.2	1738.6	1721.8	1724.2
30°	7019.1	6211.0	4450.7	2999.9	2223.0	1896.9	1755.3	1695.5	1669.0	1659.5	1657.0
32.5°	7246.9	6263.7	4201.4	2695.4	2004.8	1762.6	1659.5	1616.3	1604.3	1597.1	1594.7
35°	7633.0	6412.4	3954.4	2417.2	1836.9	1642.6	1568.3	1546.8	1529.9	1537.2	1539.5
37.5°	8153.3	6669.0	3719.4	2199.0	1709.8	1553.9	1491.6	1472.4	1462.8	1470.0	1477.2
40°	8851.2	7038.2	3522.7	2024.0	1618.7	1479.6	1424.4	1407.7	1398.1	1410.0	1412.5
42.5°	9621.0	7465.1	3359.6	1887.3	1544.3	1417.3	1364.5	1345.3	1338.1	1345.3	1347.7
45°	10412.3	7961.5	3275.7	1789.0	1482.0	1371.7	1316.5	1295.0	1278.2	1273.4	1280.6
47.5°	11191.7	8393.2	3273.3	1729.0	1431.6	1330.9	1271.0	1247.0	1225.4	1213.4	1211.0
50°	11827.2	8736.1	3330.9	1702.6	1388.5	1285.4	1225.4	1201.5	1172.6	1148.6	1153.4
52.5°	12306.8	8959.1	3357.3	1690.7	1364.5	1237.4	1177.4	1155.9	1122.3	1091.1	1091.1
55°	12616.1	9011.8	3292.5	1678.6	1345.3	1187.1	1122.3	1103.1	1069.5	1038.4	1038.4
57.5°	12721.6	8848.7	3059.9	1649.9	1326.1	1143.8	1067.1	1050.3	1024.0	992.8	988.0
60°	12477.0	8297.2	2652.3	1563.5	1287.7	1098.3	1007.2	999.9	990.4	964.0	961.6
62.5°	11534.6	7127.0	2208.6	1450.8	1223.0	1050.3	952.0	964.0	971.2	956.8	954.5
65°	9966.3	5786.5	1887.3	1295.0	1136.7	983.2	892.0	923.2	942.4	942.4	937.6
67.5°	8083.8	4443.6	1589.9	1160.7	1028.8	892.0	824.9	848.9	863.3	858.5	870.5
70°	5745.7	3009.5	1295.0	1007.2	892.0	788.9	738.6	738.6	729.0	724.2	724.2
72.5°	2786.5	1719.4	1050.3	841.7	760.2	673.8	633.1	616.3	597.1	594.8	582.7
73°	2328.5	1542.0	1002.4	810.6	729.0	657.1	611.5	585.1	573.1	563.6	561.1
75°	1417.3	1170.3	836.9	683.5	621.1	565.9	525.2	501.2	489.2	482.0	479.6
77.5°	932.8	872.9	649.8	522.8	474.8	441.3	424.5	400.5	393.3	383.7	383.7
80°	695.4	666.7	465.2	369.3	340.5	311.8	307.0	302.2	283.0	271.0	266.2
82.5°	448.4	474.8	316.6	247.0	215.8	191.8	194.3	201.4	182.2	165.4	160.6
85°	318.9	343.0	191.8	112.7	91.2	79.1	88.7	79.1	81.5	64.8	52.7
87.5°	52.7	91.2	33.6	14.4	7.2	4.8	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)