

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: P651909

Luminaire Tested: **GALN-SA5A-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16155.6 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

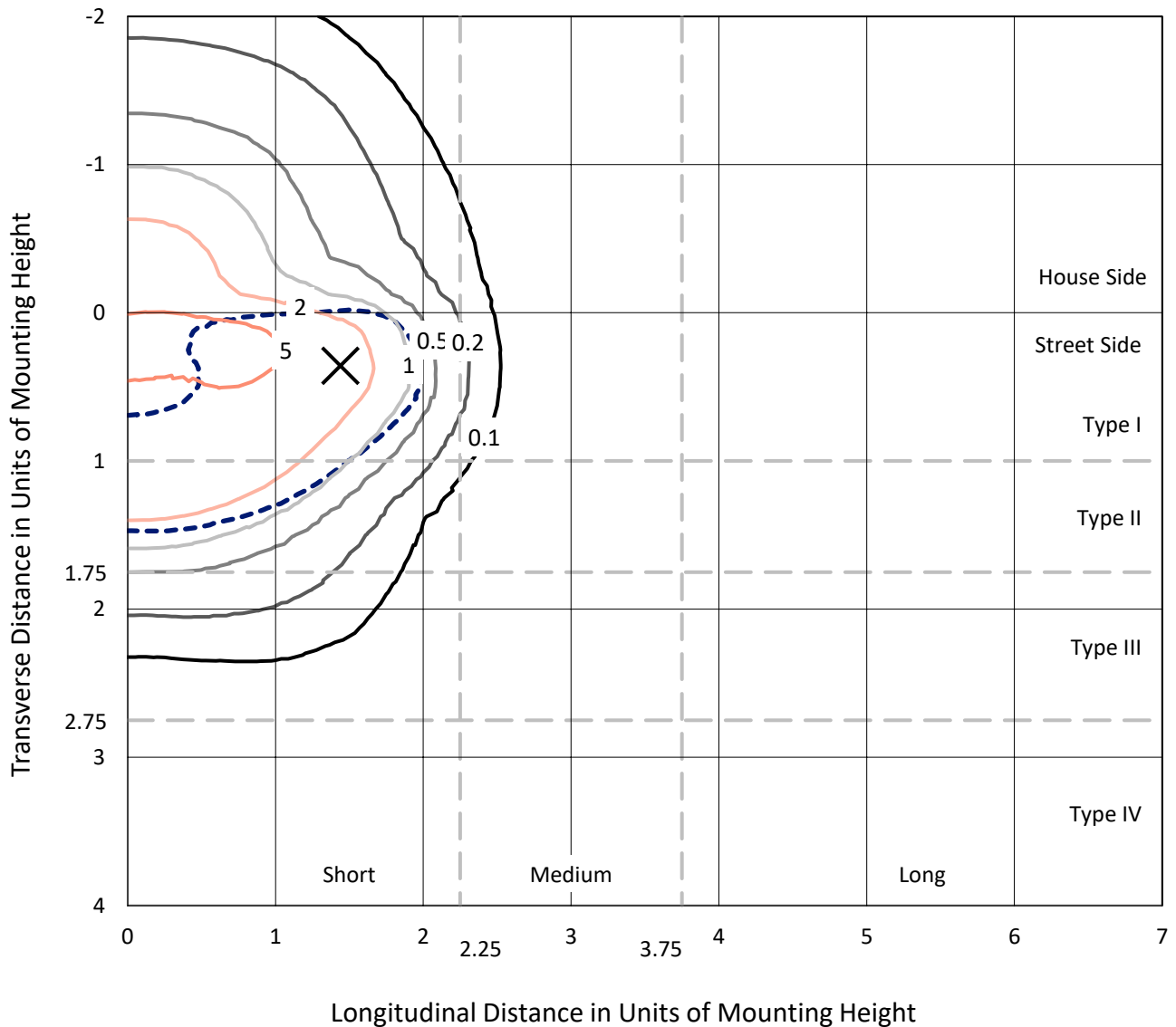
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651909
 CATALOG NUMBER: GALN-SA5A-840-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

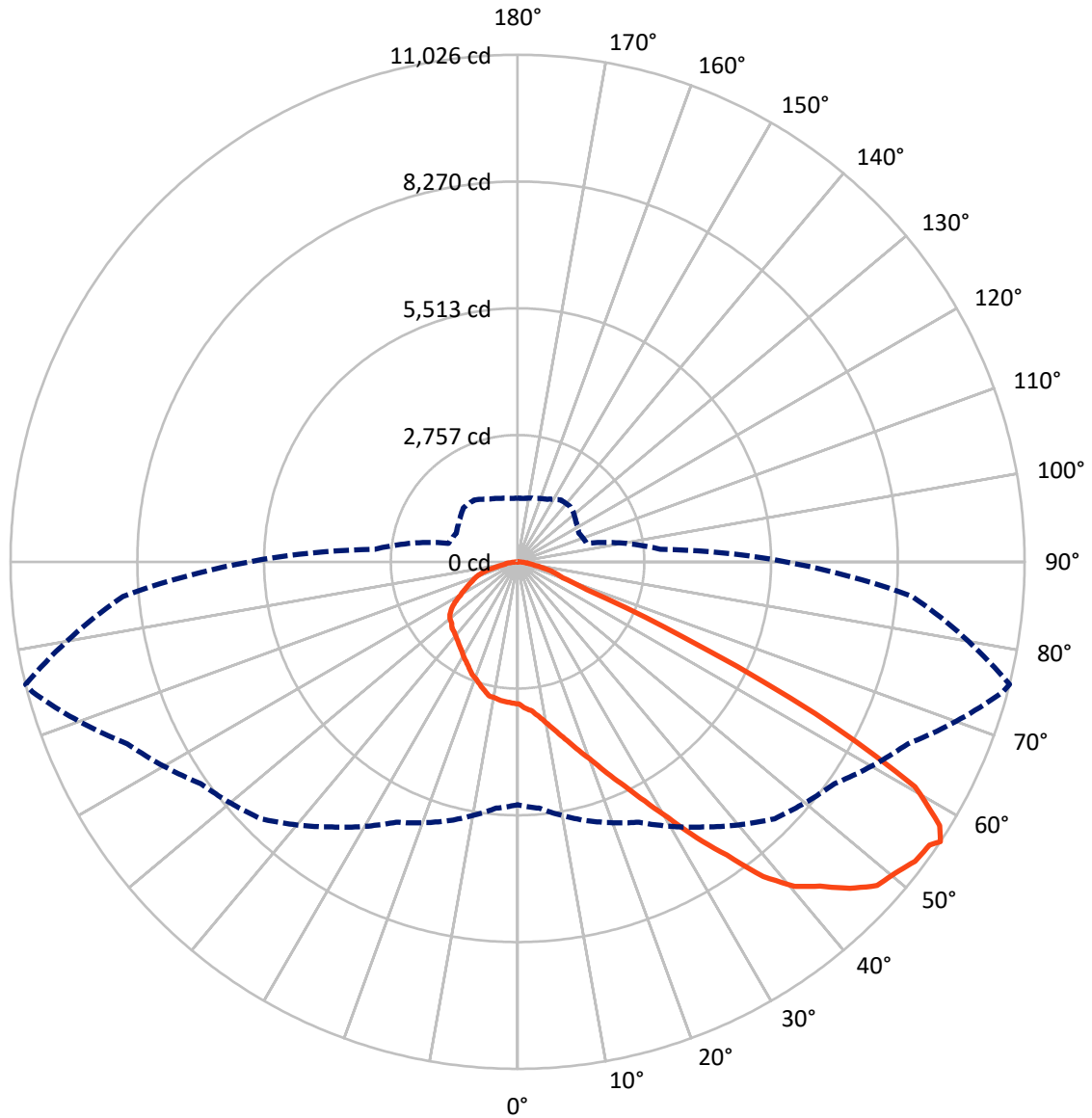
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P651909
CATALOG NUMBER: GALN-SA5A-840-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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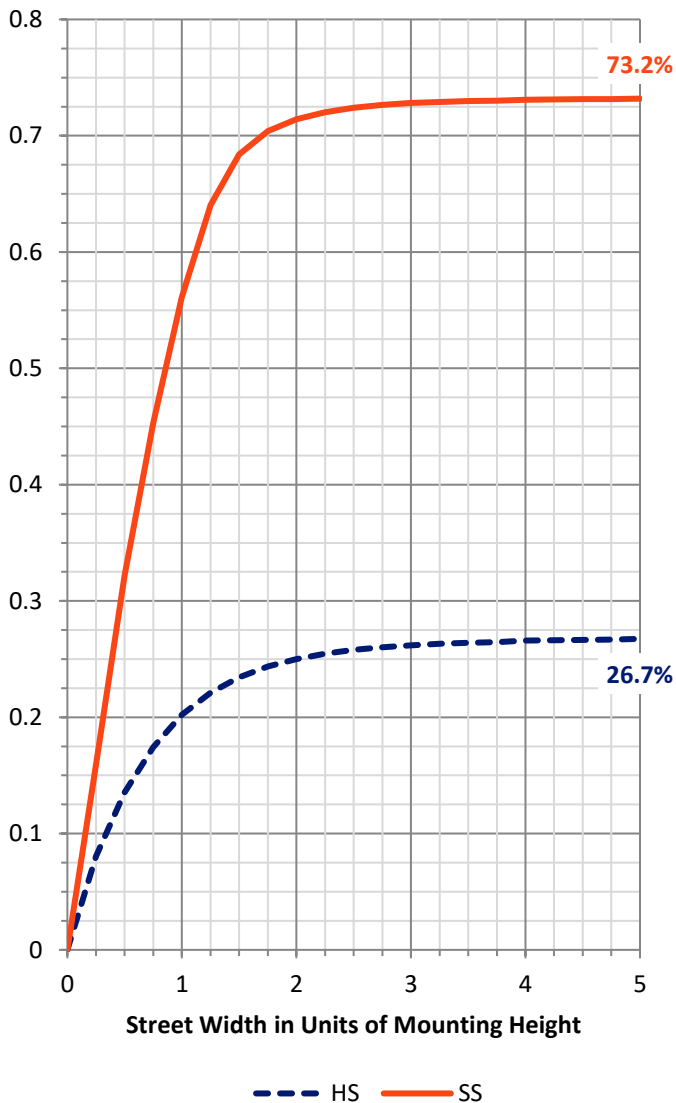
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4343.8	0.0	4343.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11811.9	0.0	11811.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	16155.6	0.0	16155.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	1.9
10°-20°	963.0	6.0
20°-30°	1684.1	10.4
30°-40°	2636.8	16.3
40°-50°	3835.8	23.7
50°-60°	4215.8	26.1
60°-70°	1881.8	11.6
70°-80°	543.5	3.4
80°-90°	88.2	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°	16155.6	100.0
0°-180°	16155.6	100.0

Coefficient of Utilization



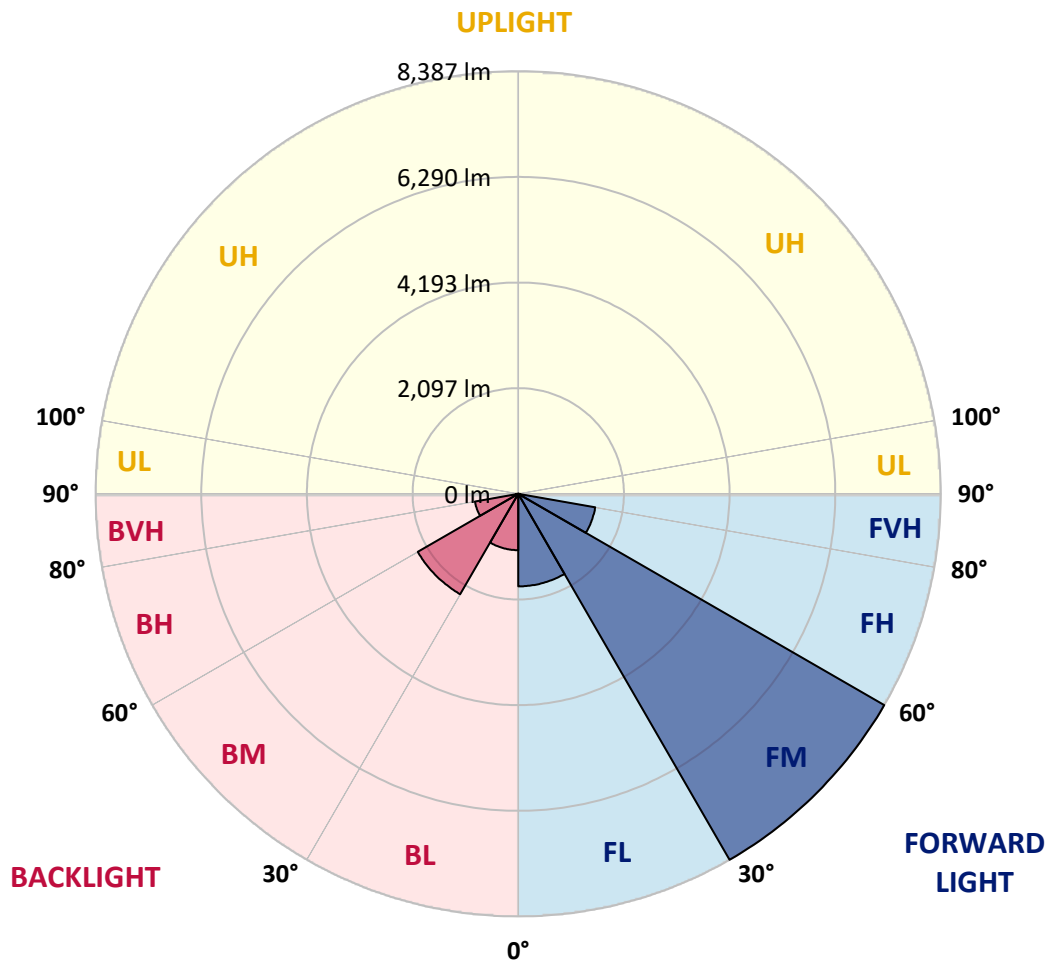
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 CATALOG NUMBER: GALN-SA5A-840-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.9	11.4			
FM (30°-60°)	8386.7	51.9			
FH (60°-80°)	1551.3	9.6			G1/1800
FVH (80°-90°)	38.0	0.2			G1/100
BL (0°-30°)	1117.7	6.9	B3/2500		
BM (30°-60°)	2301.8	14.2	B2/2500		
BH (60°-80°)	874.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	50.2	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-G2

Type II Short





REPORT NUMBER: P651909

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2
2.5°	3405.3	3350.9	3346.7	3332.0	3340.4	3302.7	3262.9	3210.5	3156.1	3189.6	3110.0
5°	3644.1	3570.8	3600.1	3549.8	3556.1	3505.9	3424.1	3363.4	3296.4	3256.6	3200.1
7.5°	3727.8	3734.1	3755.1	3746.7	3704.8	3704.8	3650.4	3543.6	3426.2	3403.2	3309.0
10°	3840.9	3843.0	3820.0	3826.3	3884.9	3857.7	3809.5	3763.5	3612.7	3585.4	3417.9
12.5°	3880.7	3843.0	3880.7	3914.2	3983.3	4021.1	4010.6	3977.1	3815.8	3796.9	3551.9
15°	3887.0	3864.0	3895.3	3970.8	4031.5	4190.7	4270.3	4247.2	4033.6	4035.7	3702.7
17.5°	3857.7	3889.1	3901.7	3966.6	4106.9	4255.6	4486.0	4517.3	4341.5	4314.2	3893.2
20°	3897.4	3874.4	3891.2	3949.8	4136.2	4368.7	4670.2	4877.6	4630.5	4611.6	4090.1
22.5°	4050.3	4019.0	4014.8	4052.4	4186.5	4427.4	4865.0	5237.8	4982.3	4992.8	4335.2
25°	4169.8	4186.5	4171.8	4169.8	4253.5	4515.2	5122.6	5667.2	5459.8	5399.1	4624.2
27.5°	4375.0	4414.7	4385.5	4425.3	4406.4	4647.2	5307.0	6142.6	5975.0	5893.3	4886.0
30°	4659.8	4680.8	4653.5	4653.5	4597.0	4831.5	5474.5	6638.9	6569.8	6458.8	5193.8
32.5°	5034.6	5066.1	5011.6	4980.2	4971.8	5105.9	5776.1	7129.0	7246.2	7152.0	5602.2
35°	5531.0	5512.2	5447.2	5417.9	5304.9	5526.8	6224.2	7692.3	8000.2	7832.7	6096.5
37.5°	5968.7	5939.4	5935.2	5771.9	5799.1	5981.3	6605.4	8119.5	8731.1	8682.9	6617.9
40°	6377.1	6404.3	6448.3	6356.2	6314.3	6515.3	7049.3	8446.2	9298.6	9279.8	7020.1
42.5°	6814.8	6789.6	6867.2	6789.6	6726.8	7011.7	7531.1	8672.5	9797.1	9642.1	7441.0
45°	7449.4	7369.8	7397.0	7403.3	7357.2	7461.9	7730.1	8835.8	10146.8	10130.1	7748.9
47.5°	7979.2	7981.3	7935.3	7899.7	7759.3	7864.0	7952.0	8938.4	10548.9	10521.7	7868.2
50°	8176.1	8148.9	8282.9	8360.4	8368.8	8155.2	8125.8	8995.0	10760.4	10641.1	7987.6
52.5°	7468.2	7493.4	7704.9	8165.6	8431.6	8454.7	8329.0	9112.2	10846.3	10821.1	8083.9
55°	6010.6	6132.1	6479.7	7011.7	7642.1	8335.2	8548.8	9233.7	10892.4	10871.4	8511.2
56°	5283.9	5378.1	5830.5	6247.3	7038.9	7901.8	8410.7	9363.5	10928.0	11026.4	8611.7
57.5°	4253.5	4362.4	4687.0	5160.3	6094.4	7076.6	8029.5	9204.4	10789.8	10827.5	8685.0
60°	2659.7	2670.2	3059.7	3371.8	4029.4	4988.6	6127.9	8008.6	9985.5	9931.1	7801.2
62.5°	1744.6	1746.7	2100.6	2356.1	2655.5	2875.5	3606.4	5311.1	7367.7	7271.4	5554.0
65°	1225.2	1252.4	1526.8	1868.1	1989.6	1874.4	1851.4	2800.0	4115.3	3977.1	2984.4
67.5°	896.3	898.4	1141.4	1507.9	1683.8	1426.3	1158.1	1367.6	1629.4	1625.1	1382.3
70°	592.7	617.8	804.2	1126.7	1327.8	1145.6	946.6	978.0	1036.7	1036.7	1028.3
72.5°	345.6	368.6	492.2	714.2	745.5	716.3	749.8	837.7	875.4	873.3	862.9
75°	196.9	207.3	234.6	297.4	370.7	437.7	550.8	634.5	672.3	695.3	668.1
77.5°	115.2	121.4	138.3	169.6	192.7	236.7	299.5	358.1	408.4	402.1	406.3
80°	60.7	60.7	77.5	100.5	134.1	167.5	199.0	232.5	259.7	266.0	272.2
82.5°	35.6	37.7	50.3	73.3	96.4	119.3	152.9	175.9	201.1	203.2	207.3
85°	18.8	20.9	31.5	48.2	64.9	73.3	75.4	71.2	77.5	73.3	83.8
87.5°	6.3	6.3	10.5	8.4	8.4	10.5	12.5	12.5	16.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651909

CATALOG NUMBER: GALN-SA5A-840-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2	3091.2
2.5°	3107.9	3107.9	3072.3	3005.3	2994.8	2967.6	2942.5	2940.4	2921.5	2904.8	2896.4
5°	3166.5	3101.6	3049.3	2988.6	2917.3	2883.9	2846.1	2804.2	2787.5	2804.2	2802.1
7.5°	3233.6	3179.1	3022.0	2908.9	2827.3	2793.8	2751.9	2707.9	2712.1	2712.1	2682.8
10°	3298.5	3225.2	2973.9	2829.4	2710.0	2684.9	2661.8	2678.6	2699.5	2703.7	2684.9
12.5°	3407.4	3242.0	2950.8	2749.8	2674.4	2620.0	2634.6	2680.7	2724.7	2712.1	2726.8
15°	3489.1	3256.6	2846.1	2668.2	2573.9	2599.0	2651.3	2682.8	2756.0	2747.7	2762.3
17.5°	3568.7	3265.0	2743.5	2559.2	2519.5	2588.5	2628.3	2718.4	2741.4	2791.7	2810.5
20°	3732.0	3281.8	2638.8	2492.2	2479.6	2559.2	2628.3	2670.2	2720.5	2764.5	2764.5
22.5°	3815.8	3273.3	2569.7	2404.3	2444.0	2494.3	2557.1	2628.3	2628.3	2670.2	2672.3
25°	3920.5	3239.9	2460.8	2362.4	2391.6	2439.8	2511.1	2485.9	2513.2	2513.2	2546.6
27.5°	4039.9	3168.6	2366.6	2286.9	2345.6	2397.9	2408.5	2391.6	2360.3	2356.1	2343.5
30°	4136.2	3080.7	2297.4	2261.9	2310.0	2339.3	2305.8	2270.2	2215.8	2211.6	2182.2
32.5°	4268.2	2971.8	2211.6	2199.0	2253.5	2255.6	2245.0	2190.6	2111.1	2077.5	2044.1
35°	4490.2	2908.9	2146.7	2165.5	2182.2	2176.0	2157.1	2098.5	2018.9	2004.3	1991.7
37.5°	4653.5	2862.9	2079.6	2102.7	2117.3	2125.7	2069.2	2004.3	2006.3	1977.0	1968.6
40°	4837.8	2833.6	2025.2	2035.6	2037.7	2065.0	1995.9	1964.4	1979.1	1960.3	1972.8
42.5°	5074.4	2841.9	1968.6	1960.3	2000.1	1989.6	1956.1	1914.2	1922.5	1866.0	1874.4
45°	5200.2	2898.5	1935.1	1897.5	1941.4	1939.3	1895.4	1855.5	1805.3	1696.4	1700.6
47.5°	5283.9	2913.1	1855.5	1830.4	1876.5	1903.7	1853.5	1761.3	1690.1	1612.6	1593.8
50°	5369.8	2940.4	1817.8	1765.5	1784.3	1849.3	1786.5	1698.5	1629.4	1560.2	1570.7
52.5°	5445.1	2992.7	1744.6	1667.0	1700.6	1771.7	1738.3	1631.5	1556.0	1499.5	1482.8
55°	5780.2	3110.0	1620.9	1520.4	1600.0	1690.1	1671.2	1541.4	1459.7	1430.4	1426.3
56°	5832.6	3114.2	1556.0	1470.2	1543.5	1662.8	1639.9	1501.6	1428.3	1382.3	1384.3
57.5°	5841.0	3063.9	1463.9	1424.1	1487.0	1623.0	1593.8	1470.2	1369.7	1327.8	1315.2
60°	5139.4	2391.6	1348.7	1323.6	1396.9	1501.6	1491.1	1384.3	1271.3	1223.1	1246.1
62.5°	3503.8	1752.9	1258.6	1254.5	1292.2	1394.8	1367.6	1271.3	1177.0	1145.6	1130.9
65°	2039.8	1329.9	1170.7	1153.9	1185.4	1239.8	1258.6	1158.1	1059.7	1038.8	1032.5
67.5°	1204.2	1099.5	1057.6	1030.4	1019.9	1053.4	1068.1	1009.5	911.1	881.7	906.9
70°	1007.3	978.0	980.1	934.0	909.0	885.9	873.3	821.0	739.3	701.6	691.1
72.5°	869.1	856.6	848.1	806.3	783.2	730.9	676.4	624.1	563.4	531.9	534.0
75°	663.9	659.7	663.9	642.9	603.2	561.3	511.0	444.0	397.9	358.1	366.5
77.5°	395.9	408.4	414.7	406.3	389.6	351.9	320.4	276.4	232.5	201.1	196.9
80°	272.2	282.7	293.2	282.7	266.0	238.8	205.2	171.7	140.3	123.5	119.3
82.5°	207.3	217.8	224.1	213.6	192.7	163.3	140.3	117.3	92.2	75.4	71.2
85°	75.4	85.9	83.8	100.5	108.9	104.7	90.1	69.1	52.4	37.7	35.6
87.5°	20.9	18.8	20.9	20.9	20.9	18.8	16.7	16.7	16.7	10.5	8.4
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)