

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: P317548

Luminaire Tested: **GLEON-SA4A-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4A-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14397 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

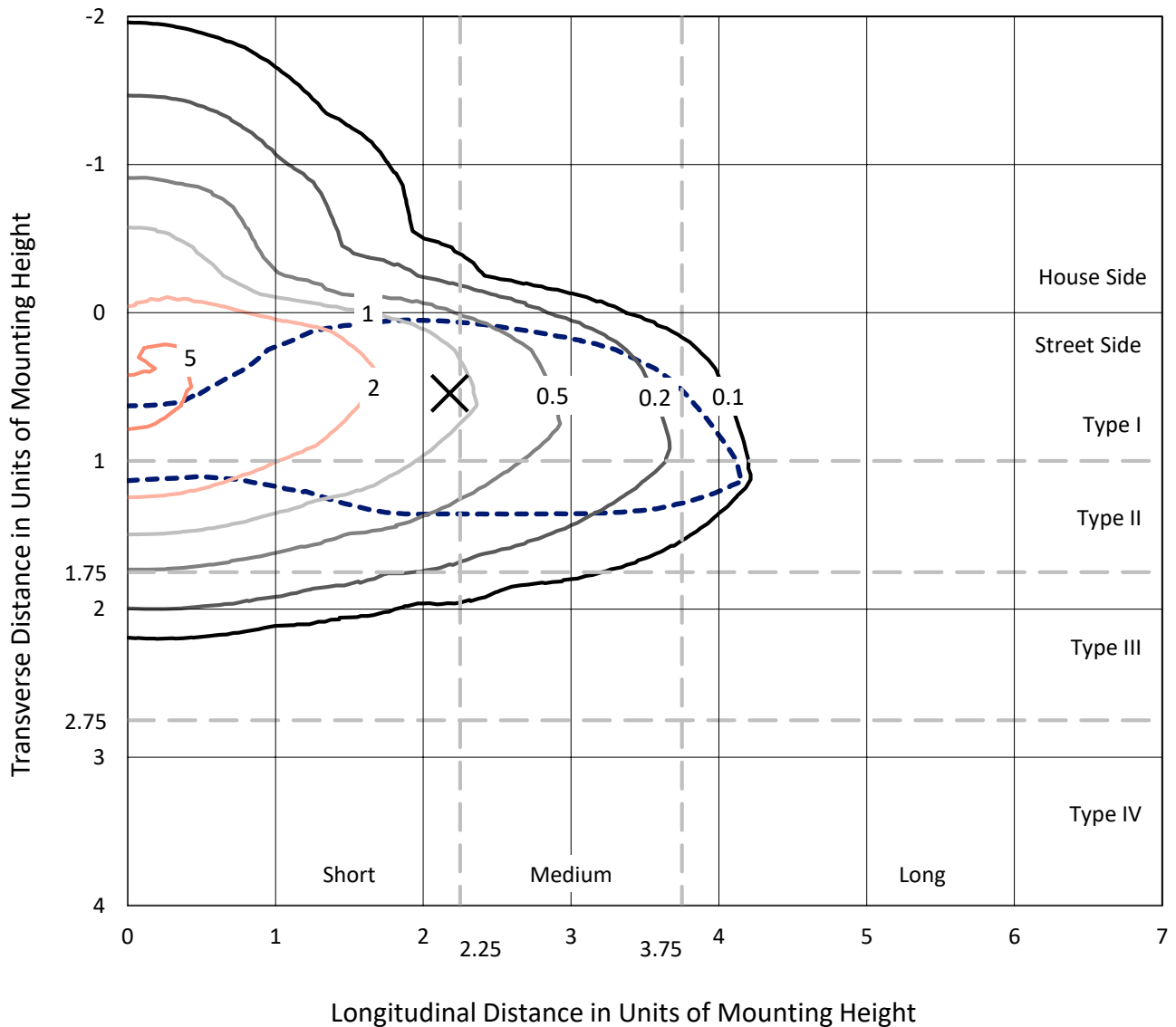
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

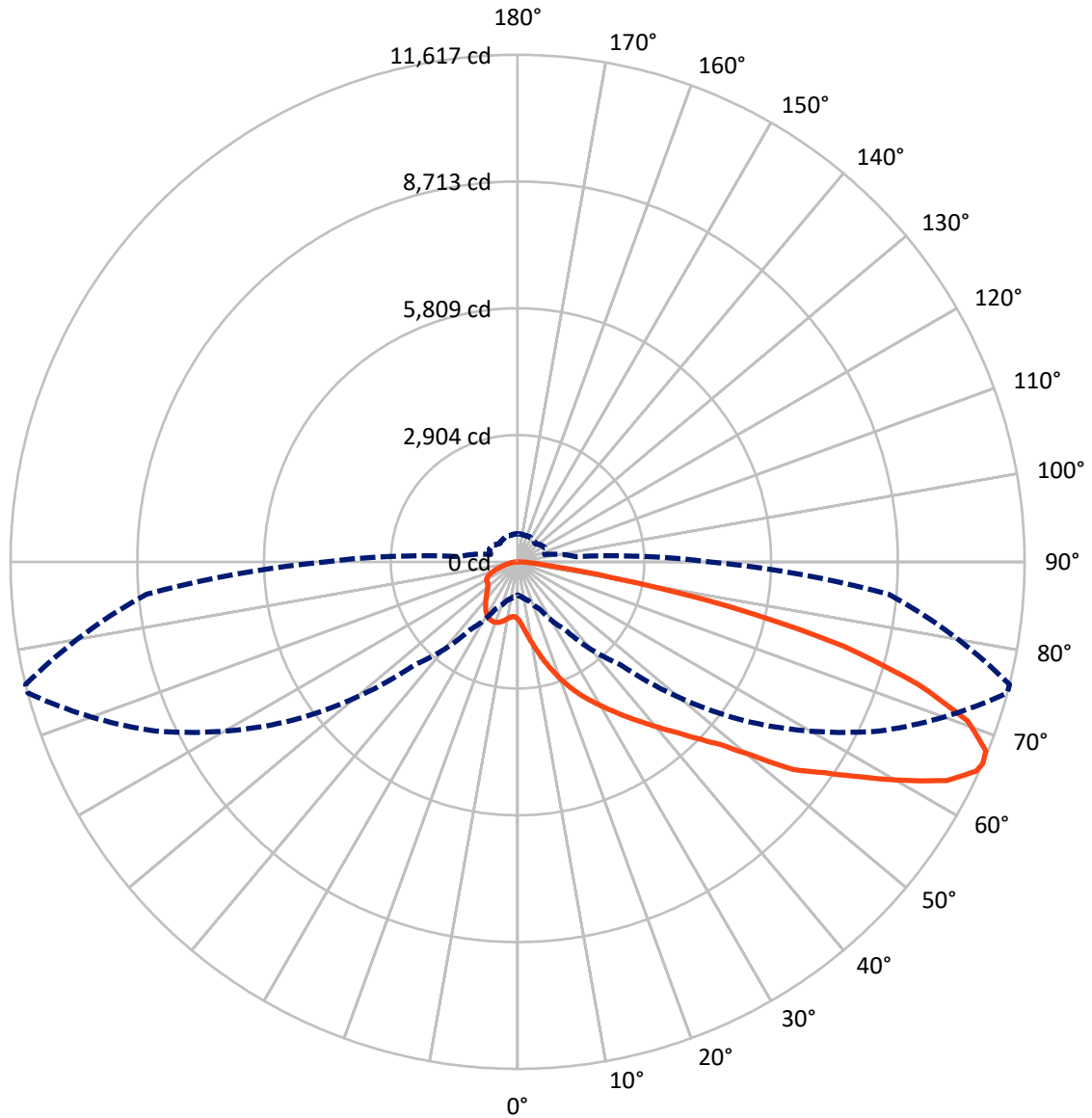
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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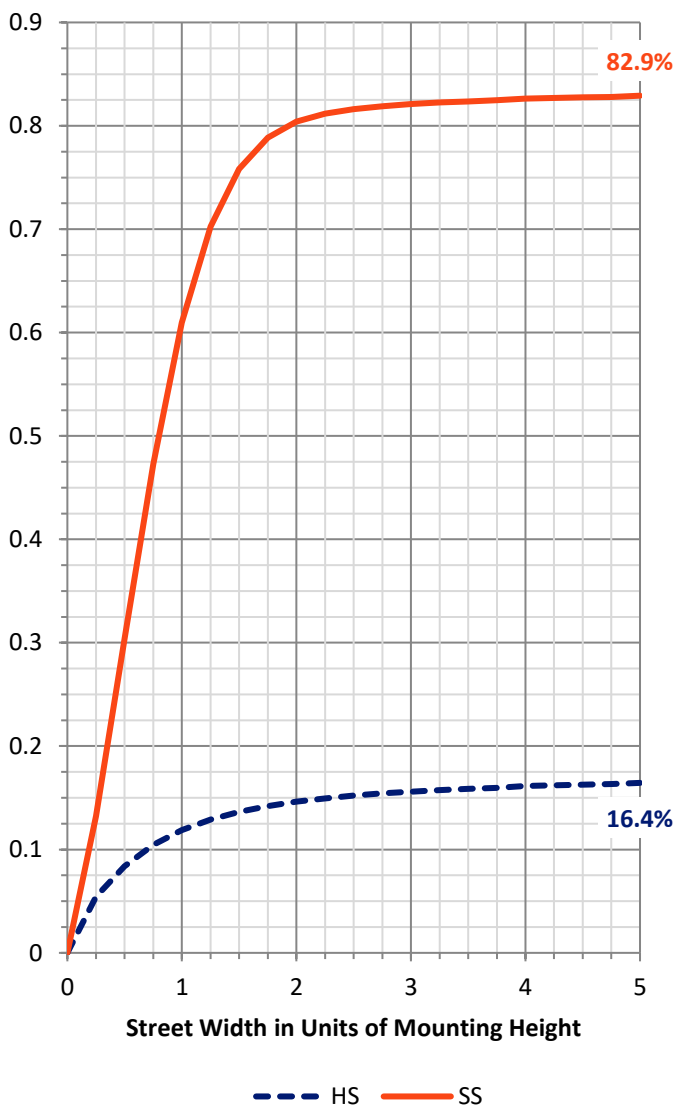
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2422.5	0.0	2422.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	11974.5	0.0	11974.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	14397.0	0.0	14397.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.0	1.1
10°-20°	627.8	4.4
20°-30°	1220.1	8.5
30°-40°	1991.4	13.8
40°-50°	2720.7	18.9
50°-60°	3169.1	22.0
60°-70°	2841.2	19.7
70°-80°	1435.8	10.0
80°-90°	231.9	1.6
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°	14397.0	100.0
0°-180°	14397.0	100.0

**Coefficient of Utilization**

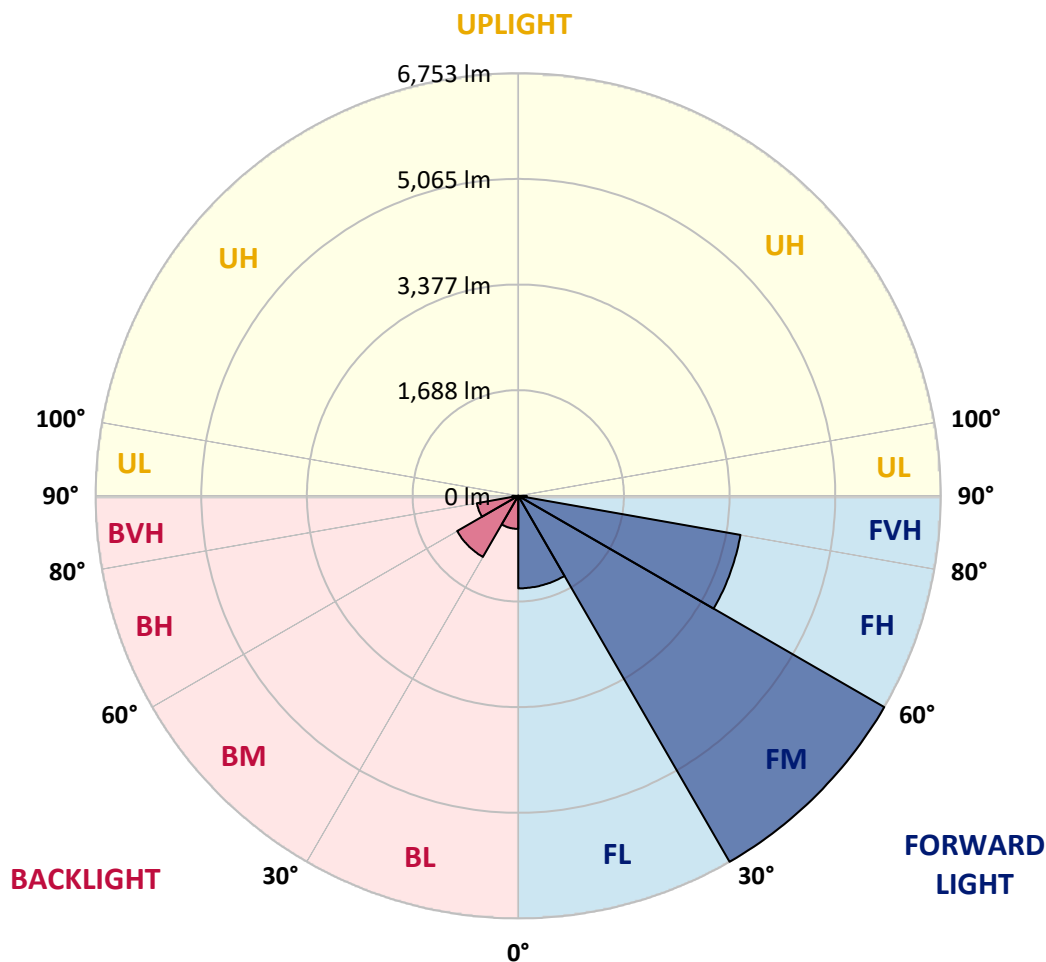


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1478.5	10.3			
FM (30°-60°)	6753.2	46.9			
FH (60°-80°)	3605.8	25.0			G2/5000
FVH (80°-90°)	136.9	1.0			G2/225
BL (0°-30°)	528.4	3.7	B2/1000		
BM (30°-60°)	1128.1	7.8	B2/2500		
BH (60°-80°)	671.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	94.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8
2.5°	1745.4	1719.0	1716.5	1677.9	1669.1	1595.3	1541.1	1484.4	1419.9	1407.1	1356.3
5°	2242.0	2239.5	2205.8	2142.7	2093.4	1967.3	1842.6	1710.7	1566.0	1542.5	1428.2
7.5°	2688.7	2684.8	2658.9	2590.9	2519.6	2364.6	2186.7	1984.4	1749.8	1715.1	1525.4
10°	3027.9	3026.4	3017.6	2967.8	2907.2	2758.6	2562.1	2285.9	1963.4	1915.9	1647.1
12.5°	3289.9	3292.8	3298.7	3281.1	3252.2	3125.6	2924.3	2605.6	2191.1	2144.2	1782.5
15°	3467.3	3476.1	3506.4	3531.3	3546.5	3468.7	3273.7	2932.6	2446.3	2390.0	1932.6
17.5°	3556.7	3566.5	3618.8	3694.1	3763.5	3755.7	3600.7	3244.4	2691.1	2636.9	2093.9
20°	3633.9	3641.3	3699.9	3790.4	3913.0	3967.3	3880.3	3544.5	2959.5	2894.9	2264.9
22.5°	3857.8	3867.1	3884.7	3936.0	4044.5	4144.2	4102.2	3828.5	3205.3	3145.2	2427.2
25°	4289.9	4301.1	4263.0	4219.5	4240.0	4309.4	4317.2	4087.5	3454.6	3386.6	2601.7
27.5°	4810.4	4826.5	4761.5	4649.6	4551.8	4525.0	4515.7	4299.6	3692.6	3613.9	2774.2
30°	5320.2	5348.0	5263.5	5118.3	4938.9	4812.8	4719.5	4507.4	3927.2	3851.9	2937.0
32.5°	5818.2	5807.0	5684.3	5542.6	5332.4	5174.5	4948.7	4730.2	4191.1	4104.6	3098.8
35°	6159.4	6163.3	6049.4	5881.3	5680.9	5559.7	5255.7	4970.7	4460.4	4380.8	3282.5
37.5°	6449.7	6431.6	6302.6	6145.7	5973.2	5921.4	5614.9	5235.6	4752.2	4665.2	3478.0
40°	6546.5	6525.5	6440.9	6328.0	6189.7	6185.3	6011.3	5535.7	5082.2	4996.1	3698.5
42.5°	6487.8	6460.9	6426.2	6395.5	6352.9	6372.5	6383.7	5887.6	5444.8	5348.5	3953.6
45°	6271.3	6230.7	6255.2	6322.1	6414.5	6525.0	6720.0	6277.2	5851.0	5770.3	4253.2
47.5°	5938.5	5901.8	5978.1	6121.3	6372.5	6652.1	7038.2	6707.3	6335.8	6255.7	4679.9
50°	5470.2	5481.0	5590.0	5850.5	6230.3	6710.7	7430.2	7276.7	7040.6	6965.8	5262.0
52.5°	4701.9	4703.8	5010.8	5438.5	5978.1	6680.4	7647.7	8004.5	8003.0	7912.6	5816.3
55°	3988.3	4031.8	4274.7	4843.1	5569.4	6559.2	7799.7	8358.3	8635.0	8528.9	6332.9
57.5°	3291.3	3316.7	3546.9	4117.8	4986.4	6236.1	7955.6	8783.1	9363.2	9296.3	6975.1
60°	2498.6	2537.7	2775.7	3303.1	4240.5	5662.8	7970.2	9226.4	10233.7	10166.3	7692.1
62.5°	1621.7	1689.2	1912.0	2406.2	3338.2	4838.3	7630.1	9516.2	11058.7	11034.8	8328.5
65°	932.1	982.9	1137.8	1519.1	2303.0	3803.1	6821.2	9404.8	11566.6	11552.9	8566.5
66°	761.5	793.3	912.0	1187.2	1900.3	3339.7	6351.0	9169.7	11616.9	11617.4	8539.2
67.5°	609.0	623.2	676.4	850.0	1402.3	2647.1	5510.8	8651.1	11554.3	11571.4	8362.7
70°	503.9	511.2	527.9	569.9	765.4	1596.3	3911.6	7303.6	10926.3	10939.5	7674.1
72.5°	452.1	456.5	462.9	468.7	540.1	892.0	2389.1	5842.7	9579.7	9596.8	6624.7
75°	409.6	412.0	411.0	411.5	453.1	568.4	1234.6	4362.2	7745.9	7711.7	5074.8
77.5°	359.7	362.2	357.3	358.3	400.8	437.0	614.4	3053.8	5227.3	4985.9	2859.3
80°	304.0	306.0	304.0	307.4	349.0	329.9	357.3	1718.0	2311.4	2186.2	1016.6
82.5°	229.7	238.0	243.9	257.6	287.4	234.6	239.0	669.1	703.8	670.1	311.8
85°	100.7	122.7	183.8	197.0	216.0	140.8	156.9	272.7	286.4	277.6	113.4
87.5°	26.4	28.8	90.9	114.4	119.7	63.5	81.6	124.1	131.0	124.1	37.6
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°	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8	1314.8
2.5°	1329.4	1305.5	1262.5	1224.3	1195.5	1176.0	1156.4	1146.6	1140.8	1134.9	1135.9
5°	1372.0	1323.6	1249.8	1197.5	1168.1	1149.6	1139.8	1135.9	1133.4	1127.6	1127.6
7.5°	1436.0	1367.6	1265.9	1212.1	1189.2	1175.0	1169.1	1167.2	1164.2	1157.4	1158.4
10°	1516.6	1420.8	1299.6	1247.3	1226.3	1210.7	1202.4	1199.4	1194.0	1186.2	1187.2
12.5°	1611.4	1486.8	1344.1	1289.4	1263.9	1242.9	1229.2	1220.9	1211.6	1201.4	1201.9
15°	1715.1	1558.7	1392.0	1327.0	1292.3	1263.0	1241.0	1226.8	1212.1	1199.4	1198.9
17.5°	1820.2	1628.1	1428.7	1347.5	1300.6	1262.0	1232.2	1210.2	1192.1	1176.5	1175.0
20°	1933.5	1690.6	1449.2	1345.6	1285.0	1239.0	1199.4	1172.1	1152.0	1136.4	1133.9
22.5°	2048.9	1749.3	1452.6	1325.5	1250.3	1194.0	1152.5	1122.2	1101.7	1085.5	1079.7
25°	2154.5	1794.7	1438.4	1286.9	1201.9	1141.3	1100.7	1069.9	1053.3	1034.2	1028.4
27.5°	2250.8	1826.5	1410.1	1237.5	1147.6	1088.0	1049.9	1023.5	1005.4	990.7	985.8
30°	2337.3	1843.6	1363.6	1178.9	1091.9	1037.6	1005.4	987.3	971.7	953.1	949.7
32.5°	2419.4	1843.6	1304.0	1114.9	1036.7	993.2	974.1	962.9	945.3	927.2	922.3
35°	2501.5	1832.4	1233.6	1047.9	985.8	961.4	960.4	947.2	920.3	895.9	889.5
37.5°	2588.0	1809.4	1154.5	985.3	944.3	947.2	955.5	926.2	888.1	853.4	844.1
40°	2685.7	1777.6	1072.3	931.1	909.6	940.9	942.3	895.9	821.6	789.8	781.5
42.5°	2800.6	1745.9	996.1	883.2	882.2	921.8	917.4	830.4	785.9	769.8	765.4
45°	2951.6	1727.8	923.8	837.7	860.7	891.0	874.9	794.2	775.7	766.4	762.5
47.5°	3189.7	1737.1	857.3	801.6	839.2	860.2	795.7	779.6	766.4	755.1	751.2
50°	3487.8	1731.7	803.5	776.6	814.8	828.0	760.0	760.5	753.7	741.0	735.1
52.5°	3712.2	1689.7	768.8	762.5	793.3	770.8	737.5	741.9	738.5	719.9	713.6
55°	3928.7	1653.5	751.2	757.1	777.6	699.4	711.1	721.9	718.5	700.4	697.5
57.5°	4198.0	1646.6	740.5	758.6	764.4	663.7	685.7	699.9	697.5	689.6	688.2
60°	4527.9	1648.6	730.7	761.0	749.8	637.3	661.8	679.9	681.3	679.9	678.9
62.5°	4709.2	1595.3	706.3	754.2	723.9	614.4	636.9	663.3	663.7	666.7	666.2
65°	4555.3	1436.0	660.8	730.2	680.4	595.3	615.4	644.2	636.9	650.1	650.1
66°	4405.7	1344.1	638.3	714.6	661.8	588.0	608.5	634.4	625.1	643.2	643.2
67.5°	4100.2	1189.2	597.8	681.3	635.4	577.7	600.7	618.3	605.6	632.5	630.5
70°	3542.1	919.9	516.1	606.1	591.9	562.6	589.9	586.0	567.5	608.5	600.7
72.5°	2986.3	698.9	414.5	507.3	525.9	543.5	574.8	545.0	521.5	550.3	533.2
75°	2317.2	525.4	327.5	394.4	444.3	513.7	556.7	497.6	463.8	460.9	451.6
77.5°	1252.7	360.7	259.5	301.1	352.9	476.5	544.5	446.7	395.9	384.2	376.8
80°	496.1	234.6	188.7	228.3	246.8	422.8	515.2	387.6	326.5	314.8	303.5
82.5°	204.8	138.8	121.7	153.0	160.8	361.7	462.4	317.7	252.2	349.0	370.5
85°	88.0	76.2	72.3	79.2	90.9	253.7	368.0	242.4	272.2	242.9	193.1
87.5°	26.4	32.3	30.8	30.3	33.2	60.6	196.0	134.9	199.9	75.8	56.7
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)