

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: P317576

Luminaire Tested: **GLEON-SA2D-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317576  
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-SA2D-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12158 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' 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

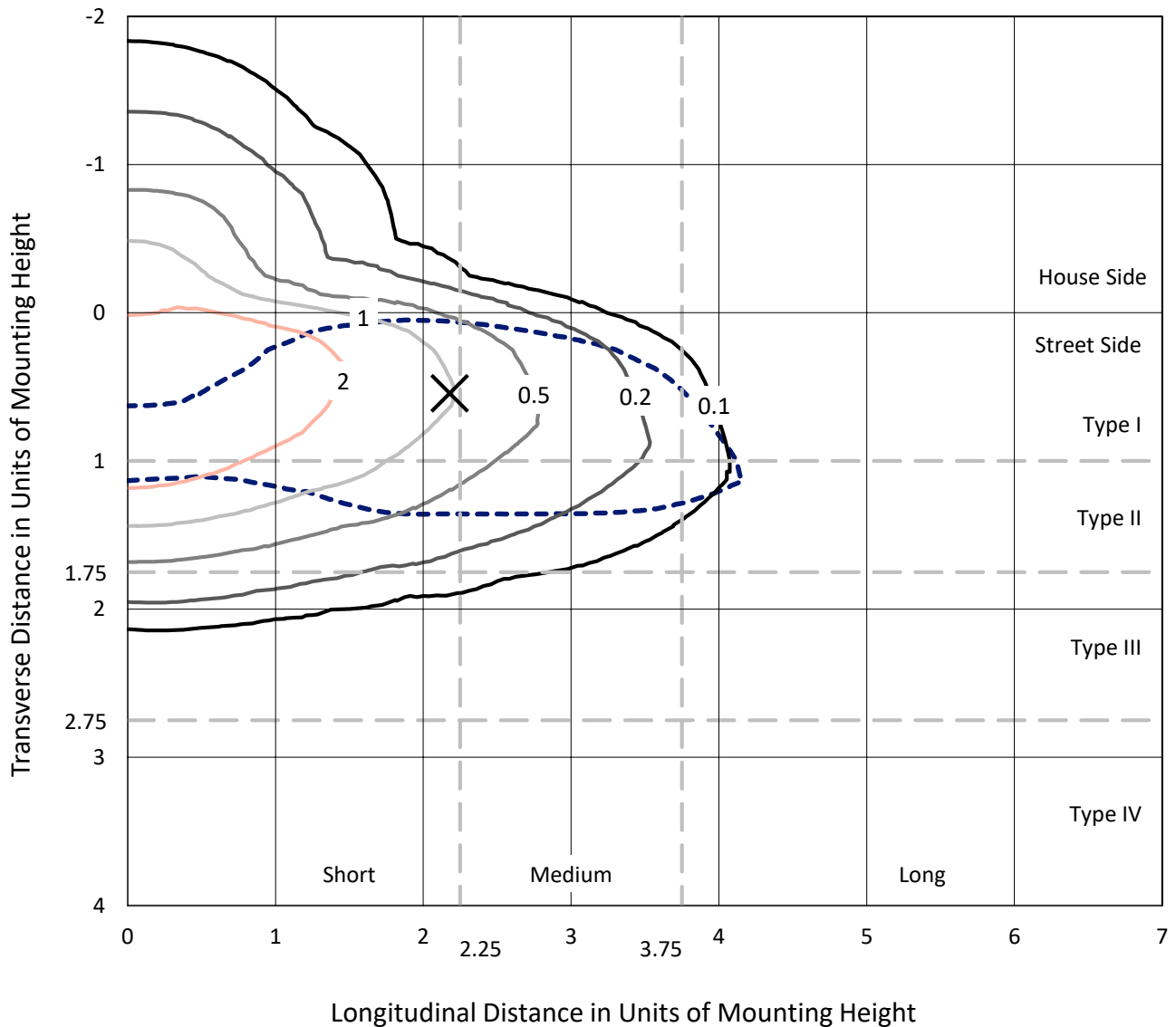




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### Iso-Footcandle Lines of Horizontal Illumination

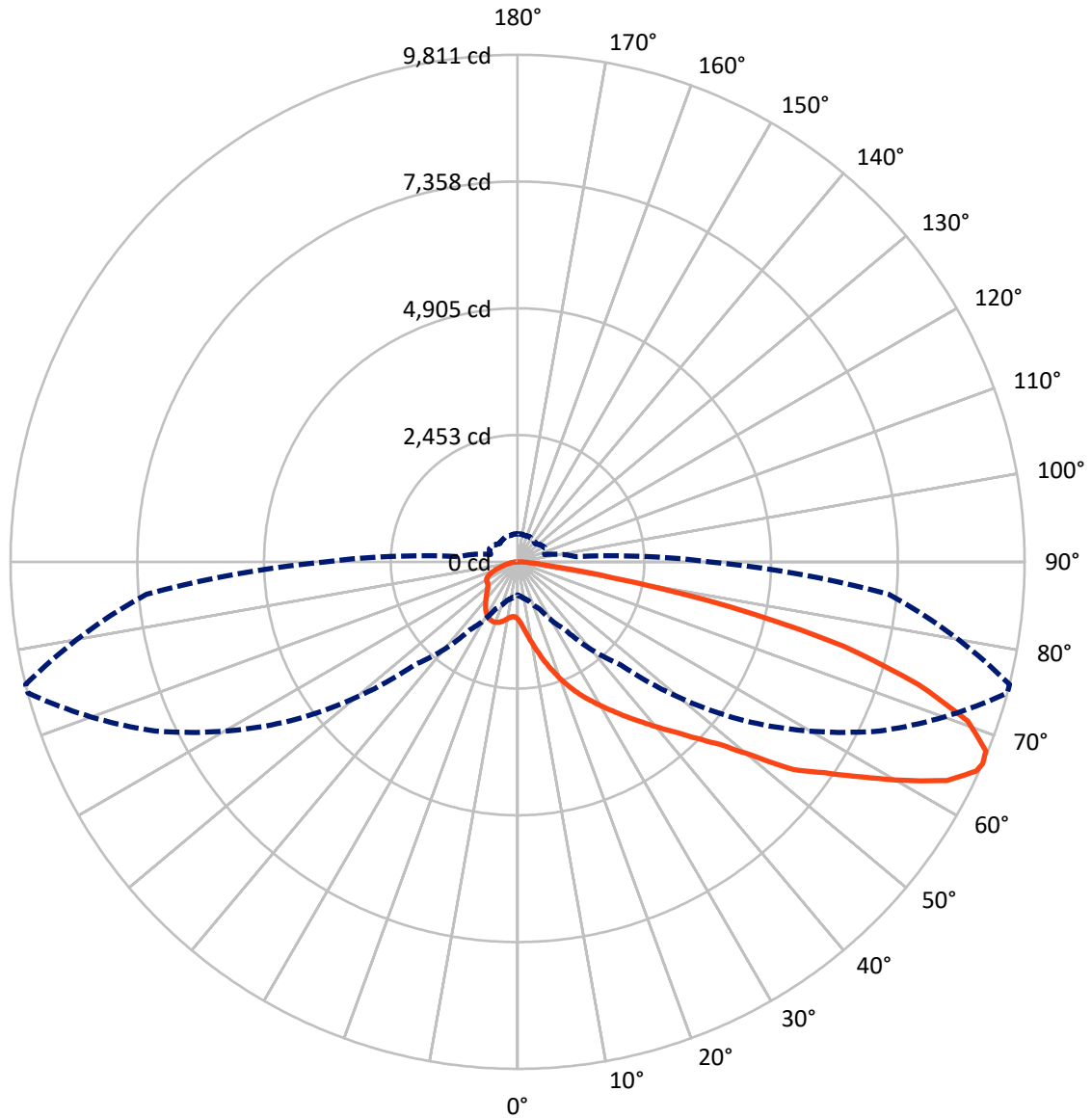
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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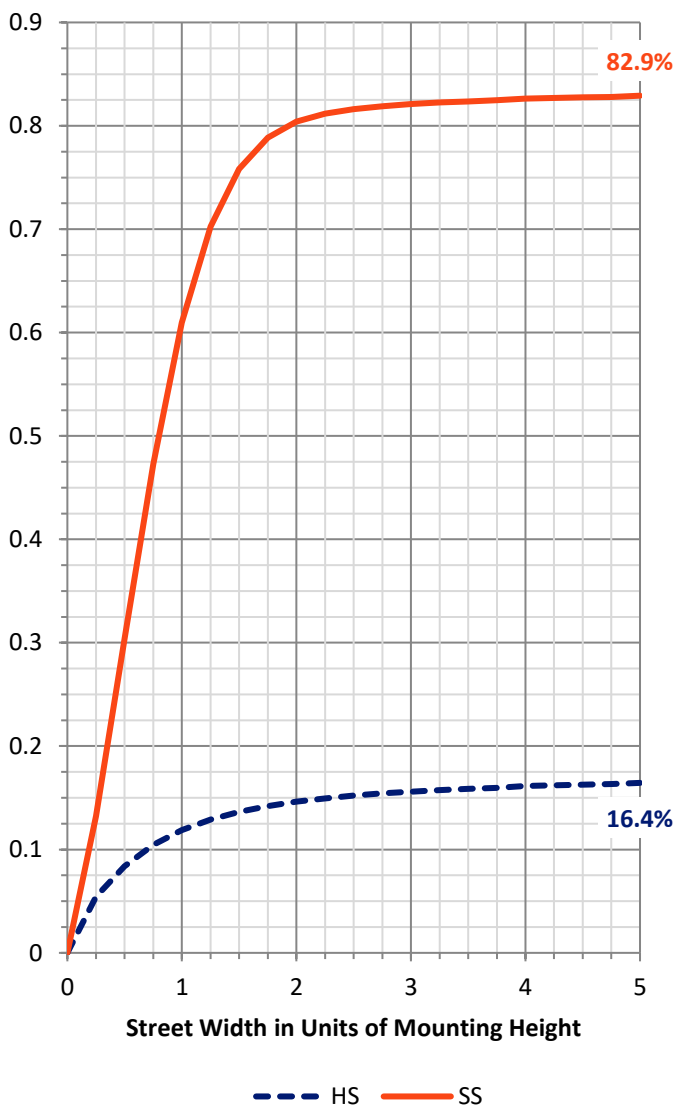
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2045.8	0.0	2045.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	10112.2	0.0	10112.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	12158.0	0.0	12158.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	1.1
10°-20°	530.2	4.4
20°-30°	1030.3	8.5
30°-40°	1681.7	13.8
40°-50°	2297.6	18.9
50°-60°	2676.3	22.0
60°-70°	2399.3	19.7
70°-80°	1212.5	10.0
80°-90°	195.8	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°	12158.0	100.0
0°-180°	12158.0	100.0

**Coefficient of Utilization**



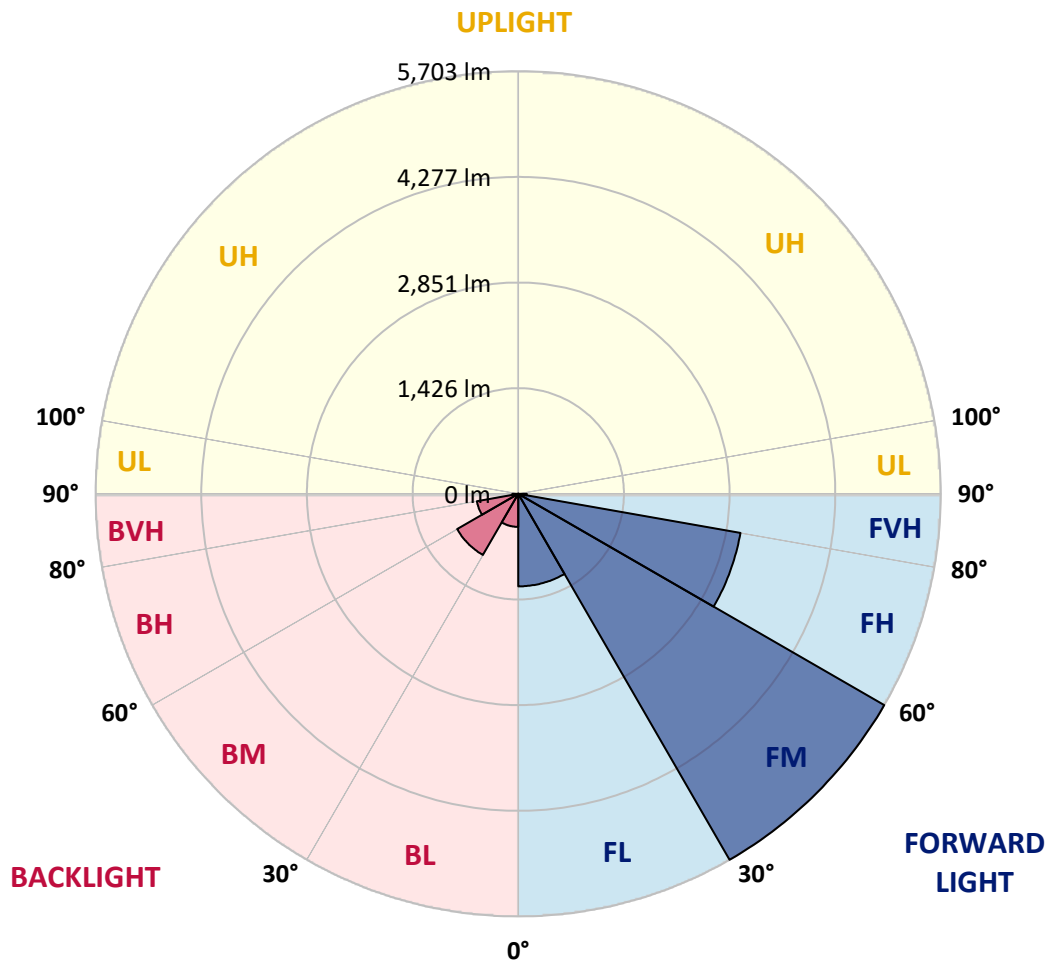
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.6	10.3			
FM (30°-60°)	5702.9	46.9			
FH (60°-80°)	3045.1	25.0			G2/5000
FVH (80°-90°)	115.6	1.0			G2/225
BL (0°-30°)	446.2	3.7	B1/500		
BM (30°-60°)	952.6	7.8	B1/1000		
BH (60°-80°)	566.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	80.2	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°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1473.9	1451.6	1449.6	1417.0	1409.5	1347.2	1301.4	1253.5	1199.0	1188.3	1145.4
5°	1893.3	1891.2	1862.7	1809.5	1767.8	1661.3	1556.1	1444.6	1322.5	1302.6	1206.1
7.5°	2270.5	2267.2	2245.4	2188.0	2127.7	1996.9	1846.6	1675.8	1477.6	1448.3	1288.2
10°	2557.0	2555.8	2548.3	2506.2	2455.0	2329.6	2163.6	1930.4	1658.0	1618.0	1391.0
12.5°	2778.2	2780.7	2785.7	2770.8	2746.4	2639.5	2469.5	2200.4	1850.4	1810.7	1505.3
15°	2928.1	2935.5	2961.1	2982.1	2994.9	2929.3	2764.6	2476.5	2065.8	2018.4	1632.0
17.5°	3003.6	3011.8	3056.0	3119.6	3178.2	3171.6	3040.7	2739.8	2272.6	2226.8	1768.2
20°	3068.8	3075.0	3124.5	3200.9	3304.5	3350.3	3276.8	2993.3	2499.2	2444.7	1912.7
22.5°	3257.8	3265.7	3280.5	3323.9	3415.5	3499.7	3464.2	3233.1	2706.8	2656.1	2049.7
25°	3622.7	3632.2	3600.0	3563.3	3580.6	3639.2	3645.8	3451.8	2917.3	2860.0	2197.1
27.5°	4062.3	4075.9	4021.0	3926.5	3843.9	3821.2	3813.4	3631.0	3118.3	3051.9	2342.8
30°	4492.8	4516.3	4444.9	4322.3	4170.8	4064.4	3985.5	3806.4	3316.5	3252.9	2480.2
32.5°	4913.4	4903.9	4800.3	4680.6	4503.1	4369.8	4179.1	3994.6	3539.3	3466.3	2616.8
35°	5201.5	5204.8	5108.6	4966.6	4797.4	4695.0	4438.3	4197.7	3766.8	3699.5	2772.0
37.5°	5446.7	5431.4	5322.4	5189.9	5044.2	5000.5	4741.7	4421.4	4013.2	3939.7	2937.1
40°	5528.4	5510.6	5439.2	5343.9	5227.1	5223.4	5076.4	4674.8	4291.8	4219.1	3123.3
42.5°	5478.9	5456.2	5426.8	5400.8	5364.9	5381.4	5390.9	4972.0	4598.0	4516.7	3338.7
45°	5296.0	5261.7	5282.4	5338.9	5416.9	5510.2	5674.9	5301.0	4941.0	4872.9	3591.8
47.5°	5014.9	4984.0	5048.4	5169.3	5381.4	5617.5	5943.6	5664.2	5350.5	5282.8	3952.1
50°	4619.5	4628.6	4720.6	4940.6	5261.3	5667.1	6274.6	6145.0	5945.7	5882.5	4443.7
52.5°	3970.7	3972.3	4231.5	4592.7	5048.4	5641.5	6458.3	6759.6	6758.4	6682.0	4911.7
55°	3368.0	3404.8	3609.9	4089.9	4703.3	5539.1	6586.7	7058.5	7292.1	7202.5	5348.0
57.5°	2779.5	2800.9	2995.3	3477.4	4210.9	5266.3	6718.3	7417.1	7907.1	7850.5	5890.4
60°	2110.0	2143.0	2344.0	2789.4	3581.0	4782.1	6730.7	7791.5	8642.2	8585.2	6495.9
62.5°	1369.5	1426.5	1614.7	2032.0	2819.1	4085.8	6443.5	8036.3	9338.9	9318.7	7033.3
65°	787.1	830.0	960.9	1282.8	1944.9	3211.6	5760.3	7942.2	9767.7	9756.2	7234.3
66°	643.1	669.9	770.2	1002.6	1604.8	2820.3	5363.3	7743.6	9810.3	9810.7	7211.2
67.5°	514.3	526.3	571.2	717.8	1184.2	2235.5	4653.8	7305.7	9757.4	9771.9	7062.2
70°	425.5	431.7	445.8	481.3	646.4	1348.0	3303.2	6167.7	9227.0	9238.2	6480.6
72.5°	381.8	385.5	390.9	395.8	456.1	753.3	2017.5	4934.0	8089.9	8104.4	5594.4
75°	345.9	347.9	347.1	347.5	382.6	480.0	1042.6	3683.8	6541.3	6512.4	4285.6
77.5°	303.8	305.8	301.7	302.5	338.5	369.0	518.8	2578.9	4414.4	4210.5	2414.6
80°	256.7	258.4	256.7	259.6	294.7	278.6	301.7	1450.8	1951.9	1846.2	858.5
82.5°	194.0	201.0	206.0	217.5	242.7	198.1	201.8	565.1	594.4	565.9	263.3
85°	85.0	103.6	155.2	166.3	182.4	118.9	132.5	230.3	241.9	234.4	95.8
87.5°	22.3	24.4	76.8	96.6	101.1	53.7	68.9	104.8	110.6	104.8	31.8
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°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1122.7	1102.5	1066.1	1033.9	1009.6	993.1	976.6	968.3	963.4	958.4	959.2
5°	1158.6	1117.7	1055.4	1011.2	986.5	970.8	962.5	959.2	957.2	952.2	952.2
7.5°	1212.7	1154.9	1069.0	1023.6	1004.2	992.3	987.3	985.6	983.2	977.4	978.2
10°	1280.8	1199.9	1097.5	1053.3	1035.6	1022.4	1015.4	1012.9	1008.4	1001.7	1002.6
12.5°	1360.8	1255.6	1135.1	1088.8	1067.4	1049.6	1038.1	1031.1	1023.2	1014.5	1015.0
15°	1448.3	1316.3	1175.5	1120.6	1091.3	1066.5	1048.0	1036.0	1023.6	1012.9	1012.5
17.5°	1537.1	1374.9	1206.5	1138.0	1098.3	1065.7	1040.5	1022.0	1006.7	993.5	992.3
20°	1632.8	1427.7	1223.8	1136.3	1085.1	1046.3	1012.9	989.8	972.9	959.6	957.6
22.5°	1730.3	1477.2	1226.7	1119.4	1055.8	1008.4	973.3	947.7	930.3	916.7	911.8
25°	1819.4	1515.6	1214.7	1086.8	1015.0	963.8	929.5	903.5	889.5	873.4	868.4
27.5°	1900.7	1542.4	1190.8	1045.1	969.1	918.8	886.6	864.3	849.0	836.6	832.5
30°	1973.8	1556.9	1151.6	995.6	922.1	876.3	849.0	833.8	820.5	804.9	802.0
32.5°	2043.1	1556.9	1101.2	941.5	875.4	838.7	822.6	813.1	798.3	783.0	778.9
35°	2112.5	1547.4	1041.8	884.9	832.5	811.9	811.1	799.9	777.2	756.6	751.2
37.5°	2185.5	1528.0	974.9	832.1	797.4	799.9	806.9	782.2	750.0	720.7	712.8
40°	2268.1	1501.2	905.6	786.3	768.1	794.5	795.8	756.6	693.8	667.0	660.0
42.5°	2365.1	1474.3	841.2	745.8	745.0	778.4	774.7	701.3	663.7	650.1	646.4
45°	2492.6	1459.1	780.1	707.5	726.9	752.4	738.8	670.7	655.0	647.2	643.9
47.5°	2693.6	1466.9	724.0	676.9	708.7	726.4	672.0	658.3	647.2	637.7	634.4
50°	2945.4	1462.4	678.6	655.9	688.1	699.2	641.8	642.2	636.5	625.7	620.8
52.5°	3134.8	1426.9	649.3	643.9	669.9	650.9	622.8	626.6	623.7	608.0	602.6
55°	3317.7	1396.3	634.4	639.4	656.7	590.6	600.6	609.6	606.7	591.5	589.0
57.5°	3545.1	1390.6	625.3	640.6	645.5	560.5	579.1	591.1	589.0	582.4	581.2
60°	3823.7	1392.2	617.1	642.7	633.2	538.2	558.9	574.1	575.4	574.1	573.3
62.5°	3976.9	1347.2	596.4	636.9	611.3	518.8	537.8	560.1	560.5	563.0	562.6
65°	3846.8	1212.7	558.0	616.6	574.5	502.7	519.7	544.0	537.8	549.0	549.0
66°	3720.5	1135.1	539.1	603.4	558.9	496.5	513.9	535.8	527.9	543.2	543.2
67.5°	3462.6	1004.2	504.8	575.4	536.6	487.9	507.3	522.1	511.4	534.1	532.4
70°	2991.2	776.8	435.9	511.8	499.8	475.1	498.2	494.9	479.2	513.9	507.3
72.5°	2521.9	590.2	350.0	428.4	444.1	459.0	485.4	460.2	440.4	464.8	450.3
75°	1956.9	443.7	276.5	333.1	375.2	433.8	470.1	420.2	391.7	389.2	381.4
77.5°	1057.9	304.6	219.2	254.3	298.0	402.4	459.8	377.3	334.3	324.4	318.2
80°	418.9	198.1	159.3	192.8	208.4	357.0	435.0	327.3	275.7	265.8	256.3
82.5°	172.9	117.2	102.8	129.2	135.8	305.4	390.5	268.3	213.0	294.7	312.9
85°	74.3	64.4	61.1	66.9	76.8	214.2	310.8	204.7	229.9	205.1	163.0
87.5°	22.3	27.2	26.0	25.6	28.1	51.2	165.5	113.9	168.8	64.0	47.9
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)