

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: P382923

Luminaire Tested: **GLEON-SA2D-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2D-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14513.5 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

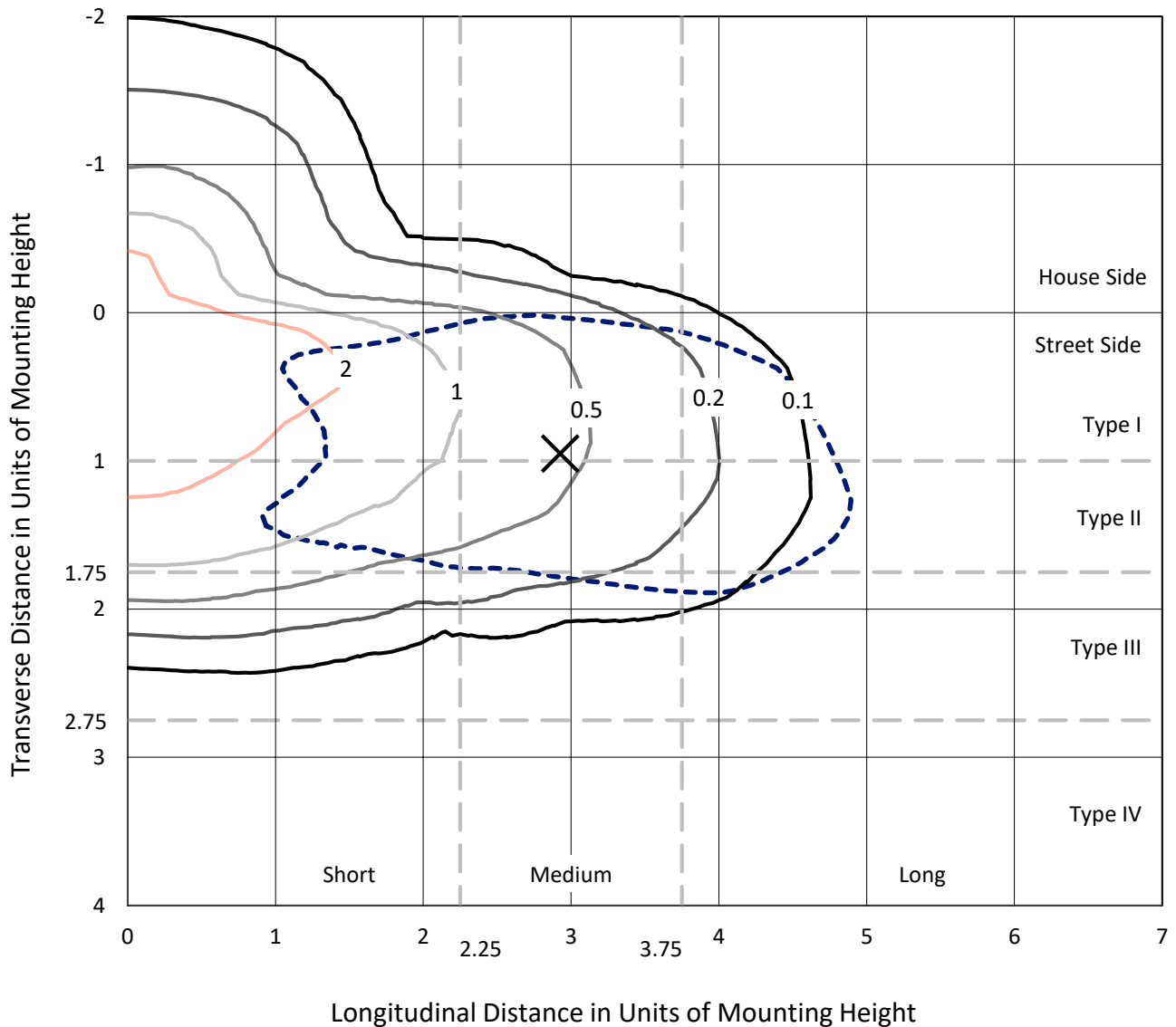
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

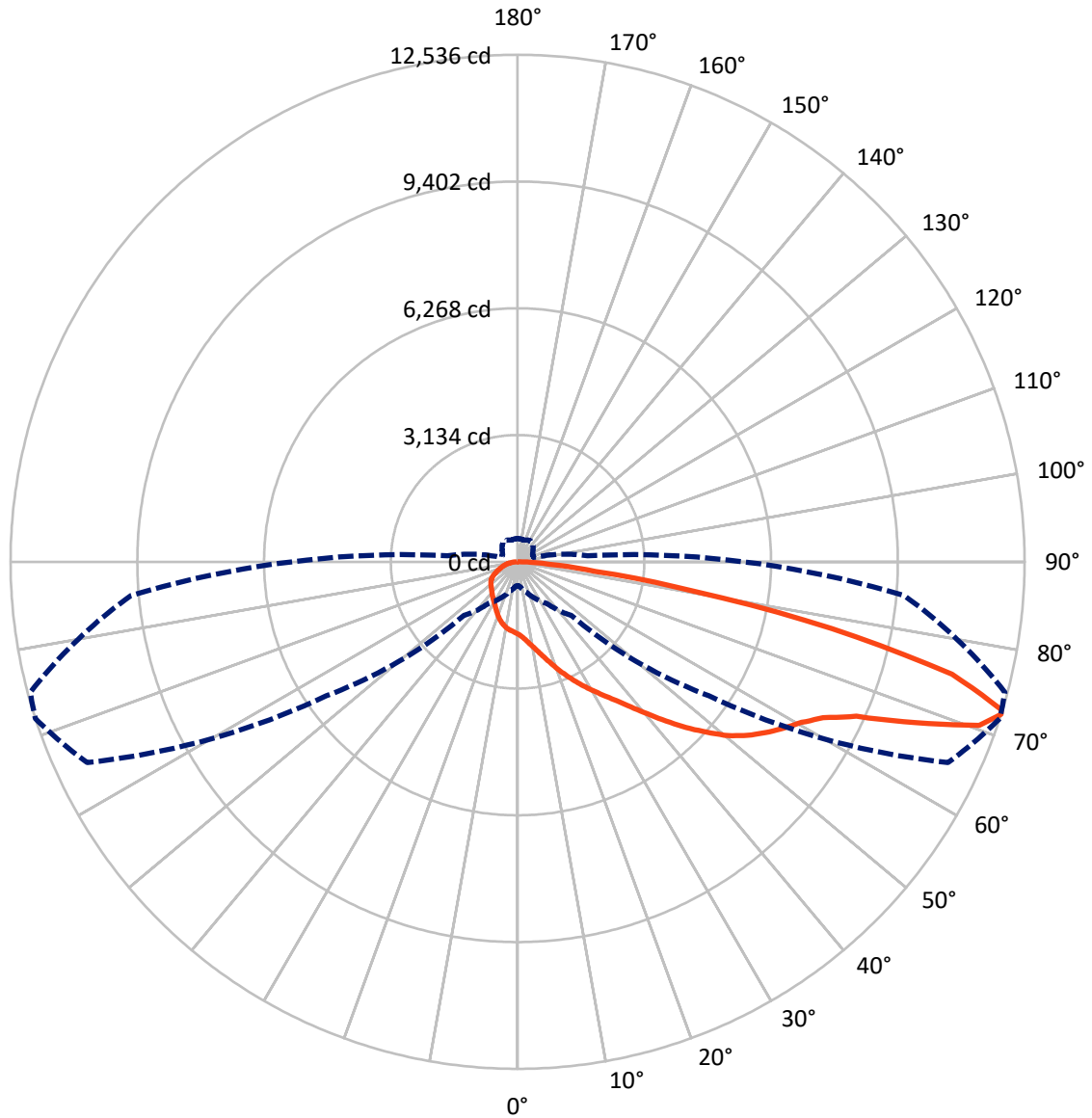
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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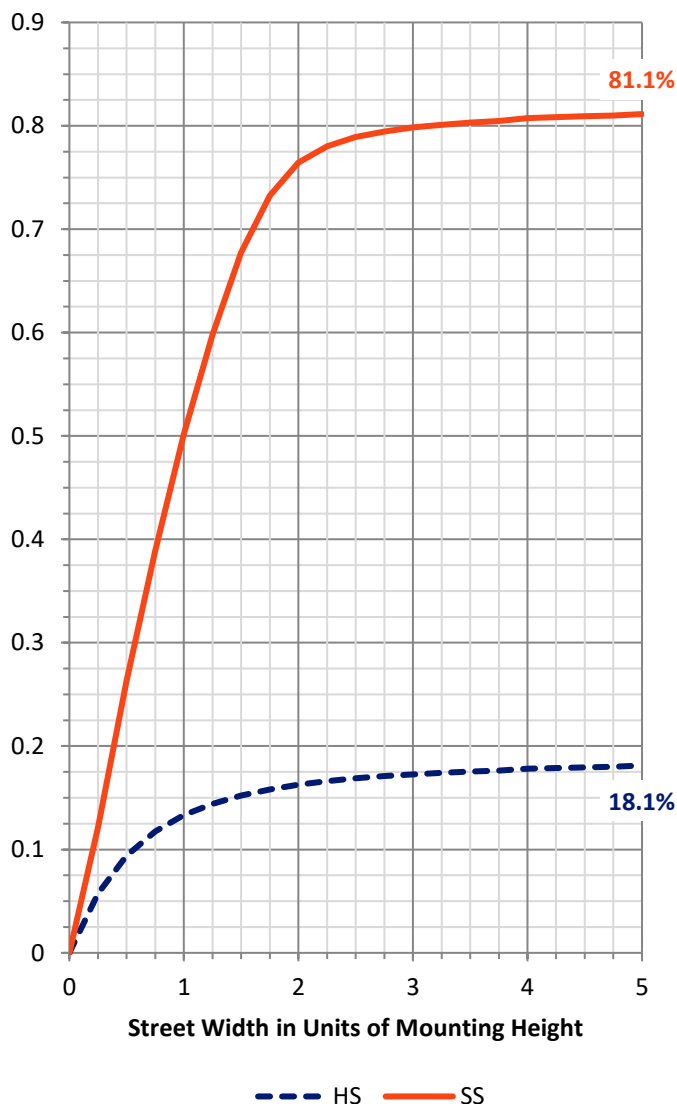
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2692.4	0.0	2692.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	11821.2	0.0	11821.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	14513.5	0.0	14513.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.9	1.2
10°-20°	578.2	4.0
20°-30°	1013.1	7.0
30°-40°	1502.2	10.4
40°-50°	2197.0	15.1
50°-60°	3023.1	20.8
60°-70°	3365.6	23.2
70°-80°	2280.5	15.7
80°-90°	374.8	2.6
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°	14513.5	100.0
0°-180°	14513.5	100.0



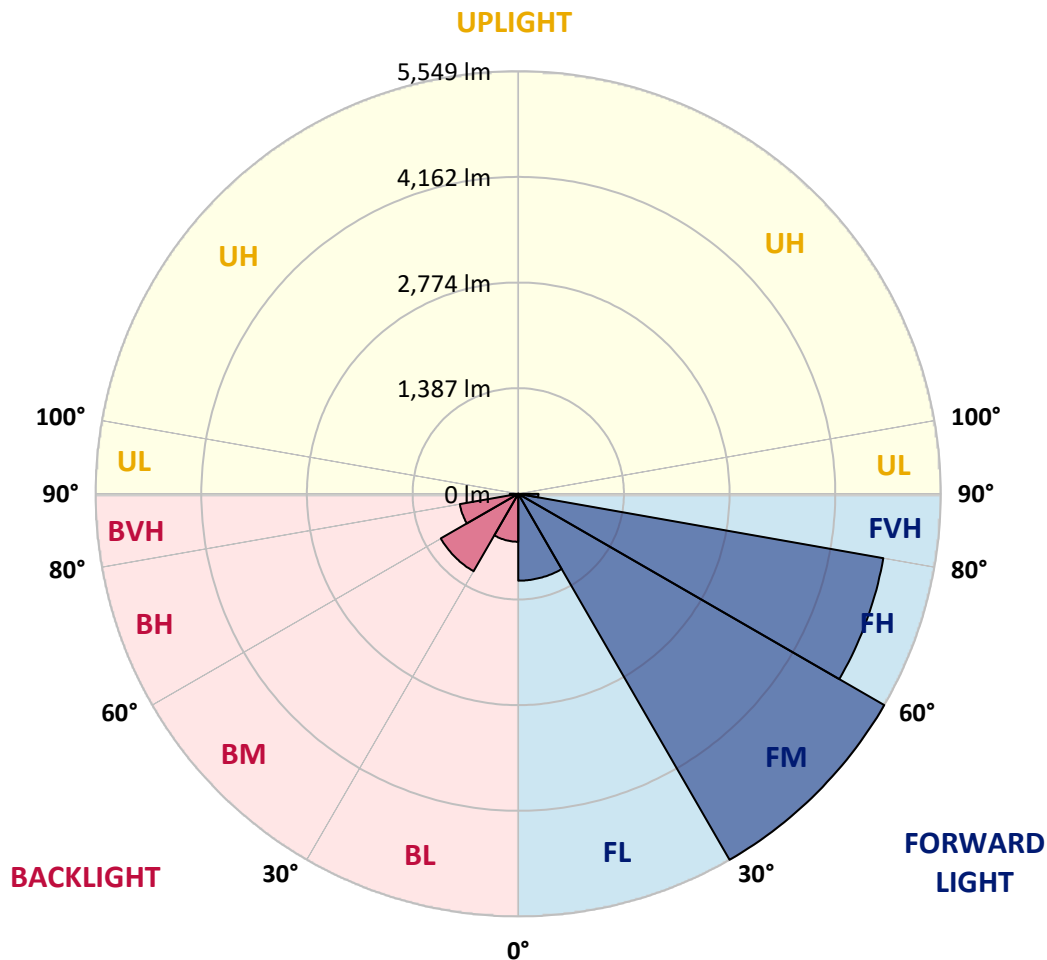
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.8	7.9			
FM (30°-60°)	5548.7	38.2			
FH (60°-80°)	4867.2	33.5			G2/5000
FVH (80°-90°)	264.4	1.8			G3/500
BL (0°-30°)	629.4	4.3	B2/1000		
BM (30°-60°)	1173.6	8.1	B2/2500		
BH (60°-80°)	778.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	110.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5
2.5°	1972.5	1969.5	1959.0	1959.0	1938.9	1922.0	1890.0	1868.5	1843.0	1834.0	1804.0
5°	2163.3	2164.4	2151.3	2142.4	2112.8	2076.9	2022.4	1972.9	1923.5	1903.4	1842.0
7.5°	2323.7	2321.8	2318.2	2310.8	2283.3	2246.3	2172.8	2099.3	2026.4	1996.4	1890.5
10°	2426.7	2431.2	2434.2	2437.7	2426.2	2399.7	2330.3	2240.8	2145.4	2104.4	1948.4
12.5°	2478.7	2486.7	2500.6	2524.7	2543.6	2540.6	2490.1	2395.2	2281.7	2230.3	2020.9
15°	2509.1	2519.6	2541.6	2584.6	2638.0	2668.6	2655.1	2569.1	2442.7	2379.3	2109.4
17.5°	2528.1	2536.6	2570.6	2628.1	2707.5	2788.5	2824.0	2752.0	2624.6	2552.2	2210.8
20°	2541.2	2547.6	2590.1	2657.6	2760.5	2889.5	2988.4	2970.4	2825.0	2731.0	2316.8
22.5°	2570.1	2575.6	2616.1	2684.1	2798.0	2964.4	3146.8	3173.8	3036.4	2929.9	2430.2
25°	2651.1	2651.1	2685.1	2732.5	2839.5	3029.4	3280.7	3400.1	3252.2	3128.3	2535.1
27.5°	2805.4	2804.0	2816.4	2833.0	2914.0	3095.3	3400.1	3600.1	3476.2	3340.7	2637.1
30°	2988.4	2998.4	2999.9	2991.9	3029.9	3177.8	3510.6	3811.0	3701.5	3555.6	2741.5
32.5°	3223.8	3230.2	3222.8	3196.3	3190.8	3294.7	3619.1	4031.8	3945.4	3779.9	2836.9
35°	3522.6	3510.1	3486.6	3432.7	3381.1	3451.1	3743.0	4252.7	4219.3	4051.3	2968.4
37.5°	3842.9	3843.5	3814.4	3692.0	3621.0	3651.0	3913.9	4503.1	4550.5	4374.2	3136.8
40°	4099.8	4113.2	4131.3	3970.3	3878.4	3919.9	4131.3	4793.5	4942.3	4756.9	3356.2
42.5°	4279.2	4294.7	4345.7	4244.7	4149.3	4226.2	4387.1	5103.3	5382.1	5198.7	3613.1
45°	4469.1	4477.6	4513.5	4470.1	4409.1	4582.6	4675.5	5424.1	5847.3	5669.5	3900.4
47.5°	4669.0	4678.0	4714.9	4686.0	4654.0	4915.4	4976.3	5726.4	6293.2	6186.7	4207.2
50°	4915.9	4921.8	4956.9	4904.3	4914.4	5166.3	5245.2	6003.7	6760.3	6651.4	4515.1
52.5°	5252.7	5254.2	5302.6	5255.1	5208.2	5350.2	5476.6	6265.1	7126.7	7075.2	4822.9
55°	5516.5	5532.6	5691.5	5681.4	5654.5	5517.0	5670.0	6514.0	7453.5	7478.0	5149.7
57.5°	5348.1	5410.6	5732.5	5959.3	6180.2	5932.3	5931.3	6794.3	7757.4	7873.3	5509.1
60°	4684.0	4769.0	5243.2	5746.4	6437.6	6654.9	6474.0	7136.7	8064.1	8265.1	5959.3
62.5°	3345.2	3485.1	4127.8	4931.3	6084.8	7133.7	7578.4	7679.9	8481.5	8718.8	6544.5
65°	1691.1	1797.0	2335.8	3303.7	4861.4	6820.8	8778.8	8869.3	9206.6	9417.5	7445.5
67.5°	1027.4	1067.5	1330.2	1837.5	2980.4	5313.2	9170.5	10851.7	10609.8	10721.7	8730.3
70°	757.1	786.6	950.5	1220.3	1714.0	3117.8	7968.2	12266.4	12107.5	12095.0	9679.8
72°	589.7	611.2	756.1	985.9	1253.3	1870.5	5775.4	11744.2	12536.3	12473.3	9592.9
72.5°	559.2	578.2	710.1	928.0	1184.4	1695.6	5192.7	11391.9	12505.3	12476.8	9480.4
75°	440.2	453.8	525.7	717.6	927.0	962.0	2845.5	8828.3	11093.5	11554.8	8526.9
77.5°	364.3	366.3	404.3	522.2	722.6	680.1	1397.8	6125.2	7943.8	8451.0	6040.2
80°	296.9	299.3	317.3	366.3	546.7	503.2	663.6	3522.1	4447.6	4453.1	2872.4
82.5°	236.3	236.9	256.8	267.8	392.8	359.8	380.3	1653.6	1943.5	1869.5	1032.4
85°	166.4	162.9	250.9	219.8	256.8	230.8	209.9	654.7	803.6	768.6	323.3
87.5°	55.4	57.5	111.4	142.4	149.9	131.0	93.4	250.9	303.3	300.8	102.5
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°	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5
2.5°	1794.5	1778.5	1755.0	1729.0	1708.6	1687.6	1672.1	1664.1	1655.1	1647.6	1656.6
5°	1813.5	1783.5	1733.6	1684.6	1648.7	1616.6	1593.6	1581.7	1570.7	1563.1	1564.2
7.5°	1844.5	1796.0	1712.1	1640.6	1590.6	1556.2	1532.7	1524.7	1517.7	1515.7	1518.1
10°	1877.5	1806.0	1683.6	1588.7	1531.7	1503.2	1492.7	1498.2	1503.2	1507.7	1512.6
12.5°	1915.0	1815.0	1642.1	1527.6	1479.2	1468.2	1478.7	1502.7	1520.2	1530.7	1537.1
15°	1964.0	1823.0	1594.2	1466.7	1434.2	1446.7	1482.2	1523.6	1554.2	1573.7	1576.6
17.5°	2008.9	1822.5	1532.7	1405.2	1397.8	1434.2	1487.7	1546.2	1587.2	1614.7	1620.1
20°	2055.4	1809.1	1461.2	1345.2	1360.8	1420.7	1490.2	1560.6	1610.2	1642.1	1649.6
22.5°	2098.9	1785.5	1382.8	1290.8	1329.8	1402.7	1480.7	1552.1	1601.6	1627.6	1635.6
25°	2128.4	1744.6	1303.3	1244.8	1302.3	1380.7	1449.8	1507.2	1544.1	1557.2	1559.1
27.5°	2143.3	1691.1	1228.3	1204.9	1273.8	1344.8	1392.3	1420.7	1431.2	1430.2	1428.2
30°	2145.4	1620.6	1163.9	1172.4	1240.8	1291.8	1314.3	1308.8	1295.3	1272.3	1274.4
32.5°	2138.8	1541.2	1109.9	1141.4	1198.9	1227.3	1228.3	1201.9	1165.8	1129.4	1119.4
35°	2140.9	1463.2	1062.4	1106.4	1147.9	1160.3	1148.9	1109.9	1060.9	1014.0	1003.9
37.5°	2162.9	1395.3	1021.4	1066.0	1091.4	1094.4	1077.9	1036.9	1000.9	955.0	951.0
40°	2215.3	1346.7	982.5	1020.4	1034.9	1036.4	1013.0	984.0	987.0	962.5	962.0
42.5°	2309.8	1325.8	948.0	973.0	981.9	984.9	966.9	948.5	974.5	958.5	953.0
45°	2431.7	1330.8	919.0	926.5	943.0	957.0	946.0	923.5	933.5	864.0	841.1
47.5°	2572.7	1362.8	896.1	886.6	915.0	941.5	924.5	890.6	855.1	786.0	773.1
50°	2737.5	1412.2	875.0	847.1	884.5	920.5	903.5	855.1	801.6	768.1	763.6
52.5°	2909.4	1472.7	854.0	803.6	846.0	904.5	896.1	847.1	781.1	748.1	742.1
55°	3104.3	1533.7	827.6	753.1	804.6	897.0	892.5	818.1	765.5	747.1	742.6
57.5°	3346.7	1603.1	792.6	700.6	765.5	870.1	856.0	800.6	749.6	735.6	734.1
60°	3662.6	1705.6	742.1	644.6	718.1	828.5	825.5	775.0	724.1	714.1	712.1
62.5°	4136.3	1875.0	672.7	588.6	665.1	758.1	785.6	740.6	697.2	696.6	697.6
65°	4870.9	2129.9	597.2	539.7	611.7	698.7	739.1	705.1	669.6	679.7	681.1
67.5°	5722.4	2341.3	523.3	491.8	557.2	642.1	697.2	669.6	633.2	659.2	659.6
70°	6005.8	2152.3	458.2	444.3	500.7	587.7	651.6	630.7	593.7	619.7	617.2
72°	5589.0	1737.5	416.3	408.3	458.2	542.7	611.2	594.1	557.7	575.2	568.7
72.5°	5457.6	1656.6	405.8	399.3	446.8	531.2	600.7	585.2	548.7	563.7	557.7
75°	4868.4	1438.7	348.8	350.4	389.8	475.3	541.7	536.8	499.2	500.7	498.8
77.5°	3531.1	1055.0	293.8	303.9	331.8	417.8	482.3	479.3	438.3	430.7	429.3
80°	1638.6	538.2	239.4	243.9	272.9	349.3	411.3	407.3	374.3	364.8	359.3
82.5°	561.2	255.9	179.9	182.9	211.4	281.3	356.8	354.3	326.8	308.3	296.9
85°	200.4	127.4	125.9	123.0	150.9	221.3	310.9	297.3	256.8	218.9	217.9
87.5°	64.9	54.5	64.9	64.5	87.9	149.9	225.9	192.4	186.4	154.9	151.9
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)