

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: P383063

Luminaire Tested: **GLEON-SA4A-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383063  
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-SA4A-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17185.2 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

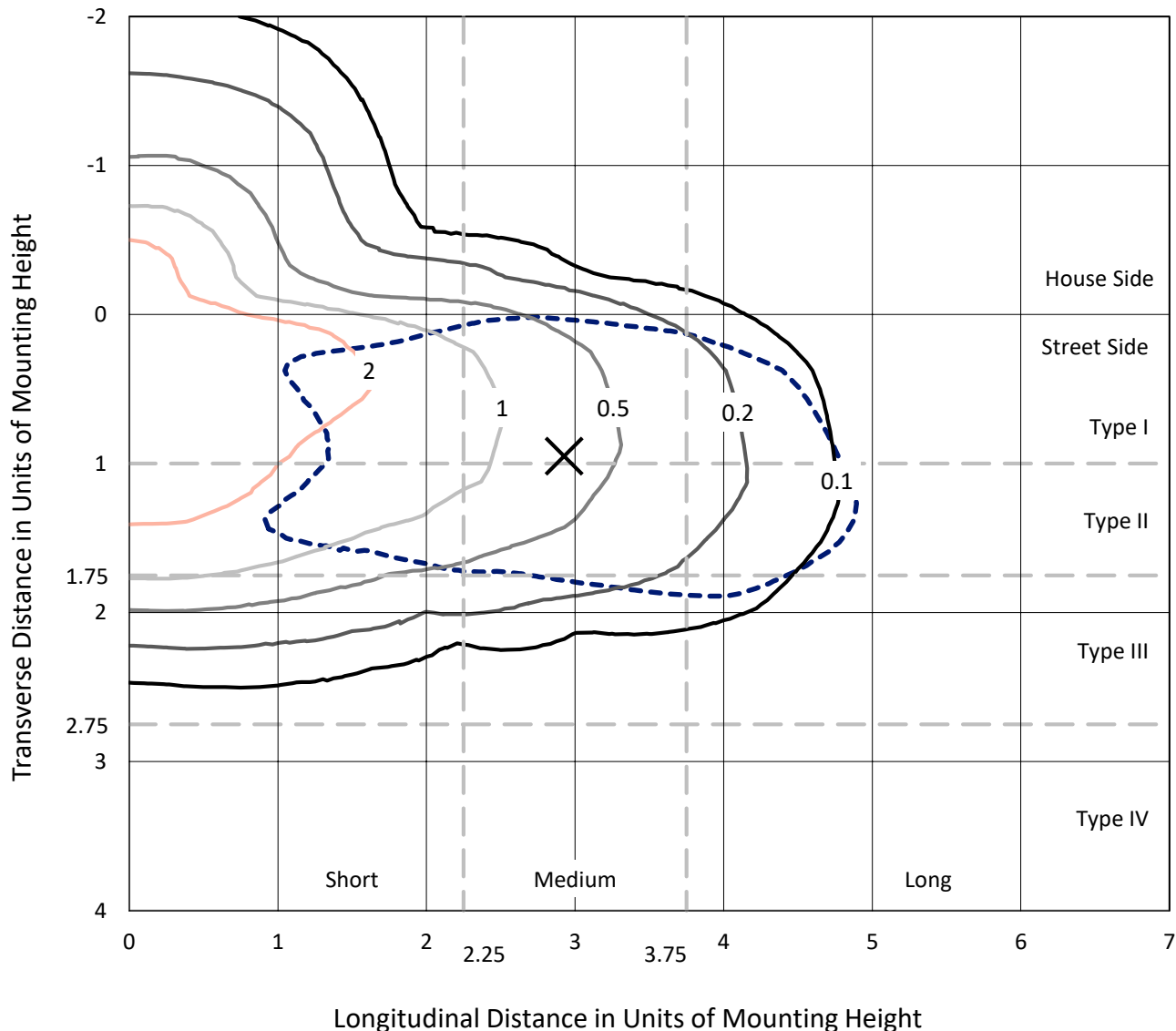
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

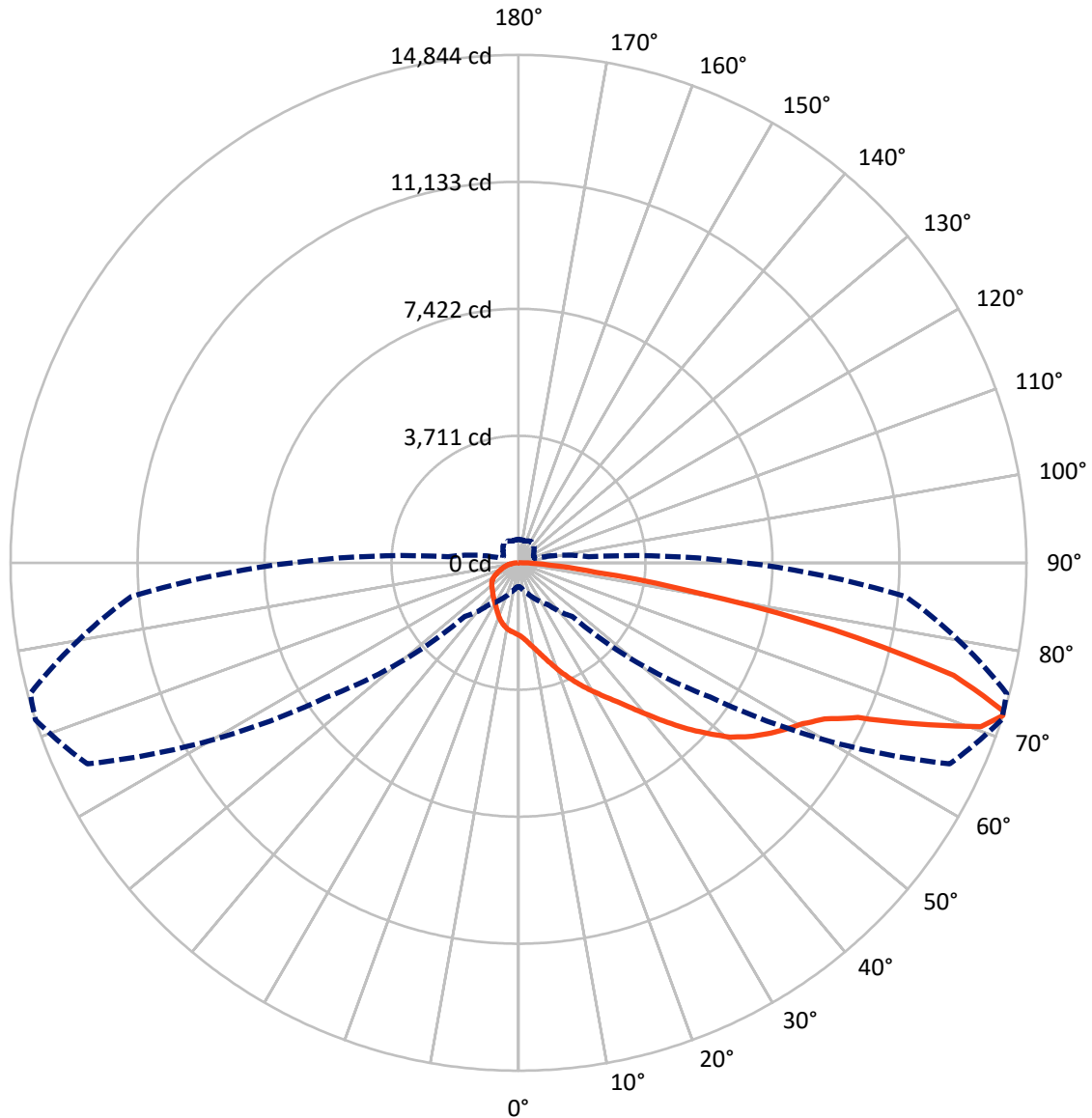
✕ Max cd  
 - - - 1/2 Max cd



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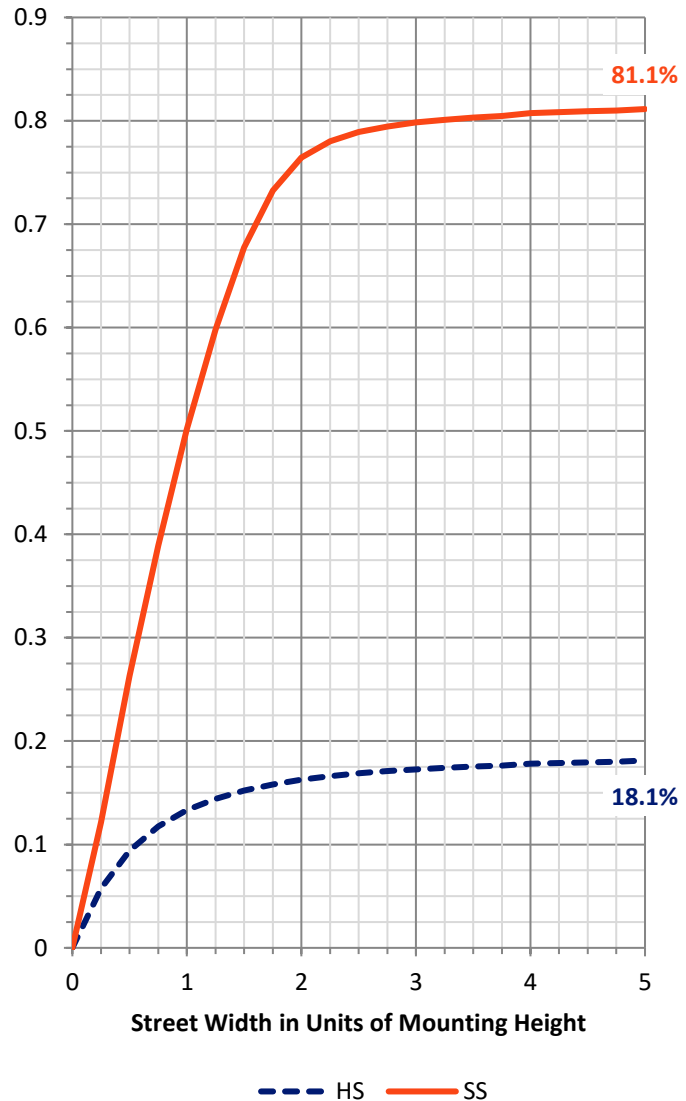
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3188.0	0.0	3188.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	13997.2	0.0	13997.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	17185.2	0.0	17185.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.8	1.2
10°-20°	684.6	4.0
20°-30°	1199.6	7.0
30°-40°	1778.7	10.4
40°-50°	2601.5	15.1
50°-60°	3579.6	20.8
60°-70°	3985.2	23.2
70°-80°	2700.4	15.7
80°-90°	443.8	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°	17185.2	100.0
0°-180°	17185.2	100.0

**Coefficient of Utilization**



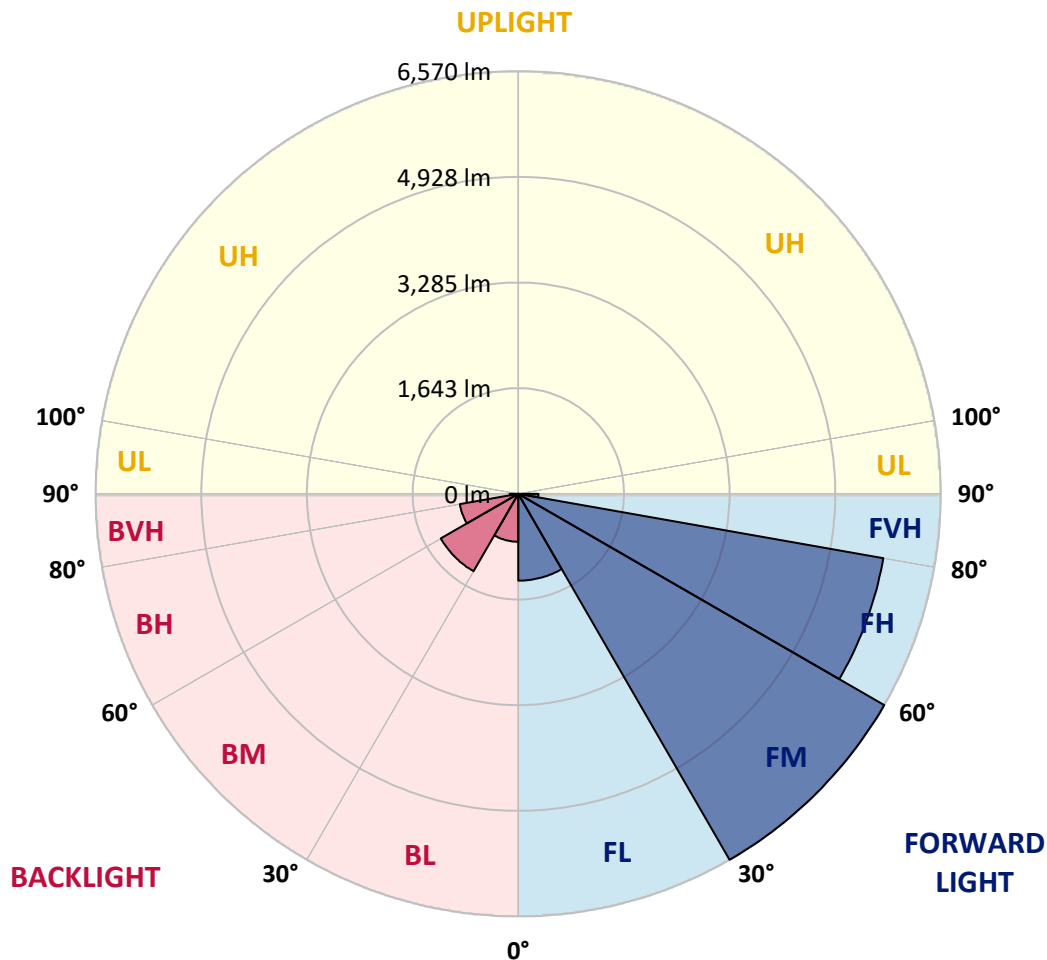
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.9	7.9			
FM (30°-60°)	6570.1	38.2			
FH (60°-80°)	5763.2	33.5			G3/7500
FVH (80°-90°)	313.1	1.8			G3/500
BL (0°-30°)	745.2	4.3	B2/1000		
BM (30°-60°)	1389.6	8.1	B2/2500		
BH (60°-80°)	922.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	130.8	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°	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2
2.5°	2335.6	2331.9	2319.6	2319.6	2295.9	2275.8	2237.9	2212.4	2182.2	2171.6	2136.1
5°	2561.6	2562.8	2547.4	2536.7	2501.8	2459.2	2394.7	2336.1	2277.5	2253.9	2181.1
7.5°	2751.5	2749.2	2745.0	2736.1	2703.5	2659.8	2572.8	2485.8	2399.5	2363.9	2238.5
10°	2873.5	2878.8	2882.3	2886.4	2872.8	2841.5	2759.2	2653.3	2540.2	2491.7	2307.2
12.5°	2934.9	2944.4	2961.0	2989.4	3011.9	3008.3	2948.5	2836.1	2701.8	2640.8	2393.0
15°	2971.1	2983.5	3009.5	3060.4	3123.7	3159.8	3143.8	3042.1	2892.4	2817.2	2497.7
17.5°	2993.5	3003.6	3043.8	3111.8	3205.9	3301.8	3343.8	3258.6	3107.7	3021.9	2617.7
20°	3008.9	3016.6	3066.9	3146.8	3268.7	3421.4	3538.5	3517.2	3345.0	3233.8	2743.2
22.5°	3043.3	3049.7	3097.7	3178.2	3313.0	3510.1	3726.1	3758.0	3595.3	3469.3	2877.6
25°	3139.1	3139.1	3179.4	3235.5	3362.1	3587.0	3884.6	4026.1	3850.9	3704.2	3001.8
27.5°	3321.9	3320.1	3334.9	3354.5	3450.4	3665.2	4026.1	4262.8	4116.0	3955.6	3122.5
30°	3538.5	3550.3	3552.1	3542.7	3587.6	3762.8	4156.8	4512.5	4382.9	4210.1	3246.2
32.5°	3817.2	3824.9	3816.0	3784.7	3778.2	3901.2	4285.3	4774.0	4671.6	4475.8	3359.3
35°	4171.1	4156.3	4128.4	4064.5	4003.6	4086.4	4432.0	5035.6	4995.9	4797.1	3514.8
37.5°	4550.3	4551.0	4516.6	4371.7	4287.6	4323.1	4634.4	5332.0	5388.3	5179.3	3714.3
40°	4854.5	4870.5	4891.7	4701.2	4592.3	4641.4	4891.7	5675.8	5852.2	5632.6	3974.0
42.5°	5067.0	5085.2	5145.6	5026.1	4913.1	5004.2	5194.8	6042.7	6372.9	6155.7	4278.1
45°	5291.7	5301.8	5344.5	5293.0	5220.8	5426.1	5536.2	6422.6	6923.7	6713.1	4618.4
47.5°	5528.5	5539.1	5583.0	5548.6	5510.8	5820.2	5892.4	6780.5	7451.5	7325.5	4981.7
50°	5820.8	5827.9	5869.3	5807.2	5819.0	6117.2	6210.7	7108.9	8004.8	7875.9	5346.2
52.5°	6219.6	6221.3	6278.8	6222.6	6166.9	6335.0	6484.7	7418.5	8438.5	8377.6	5710.8
55°	6532.0	6550.9	6739.1	6727.3	6695.3	6532.7	6713.7	7713.1	8825.6	8854.5	6097.7
57.5°	6332.7	6406.6	6787.6	7056.3	7317.9	7024.3	7023.1	8045.0	9185.3	9322.6	6523.2
60°	5546.2	5646.9	6208.4	6804.2	7622.6	7880.0	7665.8	8450.4	9548.6	9786.5	7056.3
62.5°	3961.0	4126.7	4887.6	5839.1	7204.8	8446.8	8973.5	9093.6	10042.7	10323.8	7749.2
65°	2002.4	2127.8	2765.7	3911.8	5756.3	8076.4	10394.8	10501.9	10901.3	11151.0	8816.1
67.5°	1216.6	1263.9	1575.2	2175.7	3529.1	6291.2	10858.7	12849.3	12562.9	12695.4	10337.4
70°	896.4	931.4	1125.5	1445.0	2029.7	3691.7	9435.0	14524.4	14336.2	14321.5	11461.7
72°	698.2	723.7	895.3	1167.5	1484.0	2214.8	6838.6	13906.0	14843.9	14769.4	11358.7
72.5°	662.1	684.6	840.8	1098.9	1402.4	2007.7	6148.6	13488.9	14807.3	14773.5	11225.6
75°	521.3	537.3	622.5	849.8	1097.6	1139.1	3369.3	10453.4	13135.7	13681.8	10096.6
77.5°	431.4	433.7	478.7	618.4	855.6	805.3	1655.1	7252.8	9406.0	10006.6	7152.1
80°	351.5	354.5	375.8	433.7	647.3	595.9	785.9	4170.4	5266.3	5272.8	3401.3
82.5°	279.9	280.5	304.2	317.2	465.1	426.0	450.3	1958.0	2301.2	2213.6	1222.5
85°	197.0	192.9	297.1	260.4	304.2	273.4	248.5	775.1	951.5	910.0	382.9
87.5°	65.7	68.0	132.0	168.6	177.6	155.0	110.7	297.1	359.2	356.2	121.3
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°	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2	2114.2
2.5°	2124.9	2105.9	2078.1	2047.4	2023.1	1998.3	1979.9	1970.4	1959.8	1950.9	1961.6
5°	2147.4	2111.8	2052.7	1994.7	1952.1	1914.2	1887.0	1872.8	1859.7	1850.9	1852.1
7.5°	2184.0	2126.6	2027.2	1942.6	1883.5	1842.6	1814.8	1805.3	1797.0	1794.7	1797.7
10°	2223.1	2138.5	1993.5	1881.1	1813.6	1779.9	1767.5	1773.9	1779.9	1785.2	1791.2
12.5°	2267.5	2149.2	1944.4	1808.9	1751.5	1738.5	1750.9	1779.3	1800.0	1812.4	1820.2
15°	2325.5	2158.6	1887.6	1736.7	1698.2	1713.0	1755.0	1804.1	1840.3	1863.4	1866.9
17.5°	2378.7	2158.0	1814.8	1663.9	1655.1	1698.2	1761.6	1830.8	1879.3	1911.8	1918.3
20°	2433.8	2142.0	1730.2	1592.9	1611.3	1682.3	1764.5	1847.9	1906.5	1944.4	1953.3
22.5°	2485.3	2114.2	1637.3	1528.4	1574.6	1660.9	1753.3	1837.9	1896.4	1927.3	1936.7
25°	2520.1	2065.7	1543.2	1474.0	1542.0	1635.0	1716.6	1784.7	1828.4	1843.8	1846.1
27.5°	2537.9	2002.4	1454.4	1426.7	1508.3	1592.3	1648.6	1682.3	1694.7	1693.6	1691.1
30°	2540.2	1919.0	1378.1	1388.2	1469.2	1529.6	1556.2	1549.7	1533.7	1506.5	1508.9
32.5°	2532.6	1824.9	1314.2	1351.5	1419.6	1453.3	1454.4	1423.1	1380.5	1337.3	1325.5
35°	2534.9	1732.6	1258.0	1310.0	1359.2	1373.9	1360.3	1314.2	1256.2	1200.6	1188.7
37.5°	2561.0	1652.1	1209.5	1262.2	1292.3	1295.9	1276.3	1227.8	1185.2	1130.8	1126.1
40°	2623.1	1594.7	1163.3	1208.3	1225.5	1227.2	1199.5	1165.1	1168.6	1139.7	1139.1
42.5°	2734.9	1569.8	1122.5	1152.0	1162.8	1166.3	1145.0	1123.1	1153.8	1134.9	1128.4
45°	2879.3	1575.7	1088.1	1097.1	1116.6	1133.1	1120.1	1093.5	1105.4	1023.1	995.8
47.5°	3046.2	1613.6	1060.9	1049.8	1083.5	1114.8	1094.7	1054.4	1012.4	930.8	915.4
50°	3241.4	1672.2	1036.1	1003.0	1047.3	1089.9	1069.8	1012.4	949.2	909.5	904.2
52.5°	3445.0	1743.8	1011.3	951.5	1001.8	1071.0	1060.9	1003.0	924.8	885.8	878.7
55°	3675.8	1816.0	979.9	891.8	952.7	1062.2	1056.8	968.6	906.5	884.6	879.3
57.5°	3962.8	1898.2	938.4	829.6	906.5	1030.2	1013.6	947.9	887.6	871.0	869.2
60°	4336.7	2019.6	878.7	763.3	850.3	981.1	977.6	917.8	857.4	845.6	843.2
62.5°	4897.7	2220.2	796.5	697.1	787.6	897.6	930.2	877.0	825.4	824.9	826.0
65°	5767.5	2521.9	707.1	639.0	724.3	827.2	875.2	834.9	792.9	804.8	806.5
67.5°	6775.8	2772.2	619.6	582.2	659.8	760.3	825.4	792.9	749.7	780.5	781.1
70°	7111.3	2548.5	542.6	526.0	592.9	695.9	771.6	746.7	702.9	733.8	730.8
72°	6617.8	2057.4	492.9	483.5	542.6	642.6	723.7	703.6	660.4	681.1	673.4
72.5°	6462.2	1961.6	480.5	472.8	529.0	629.0	711.2	692.9	649.8	667.5	660.4
75°	5764.6	1703.6	413.0	414.8	461.6	562.7	641.5	635.5	591.2	592.9	590.5
77.5°	4181.2	1249.1	347.9	359.8	392.9	494.7	571.0	567.5	519.0	510.0	508.3
80°	1940.2	637.3	283.5	288.8	323.1	413.6	487.0	482.3	443.2	432.0	425.4
82.5°	664.5	302.9	213.0	216.6	250.3	333.1	422.5	419.6	387.0	365.1	351.5
85°	237.3	150.9	149.1	145.6	178.7	262.1	368.1	352.0	304.2	259.2	257.9
87.5°	76.9	64.5	76.9	76.3	104.1	177.6	267.4	227.9	220.7	183.4	179.9
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)