

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: P382955

Luminaire Tested: **GLEON-SA3A-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13256.9 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

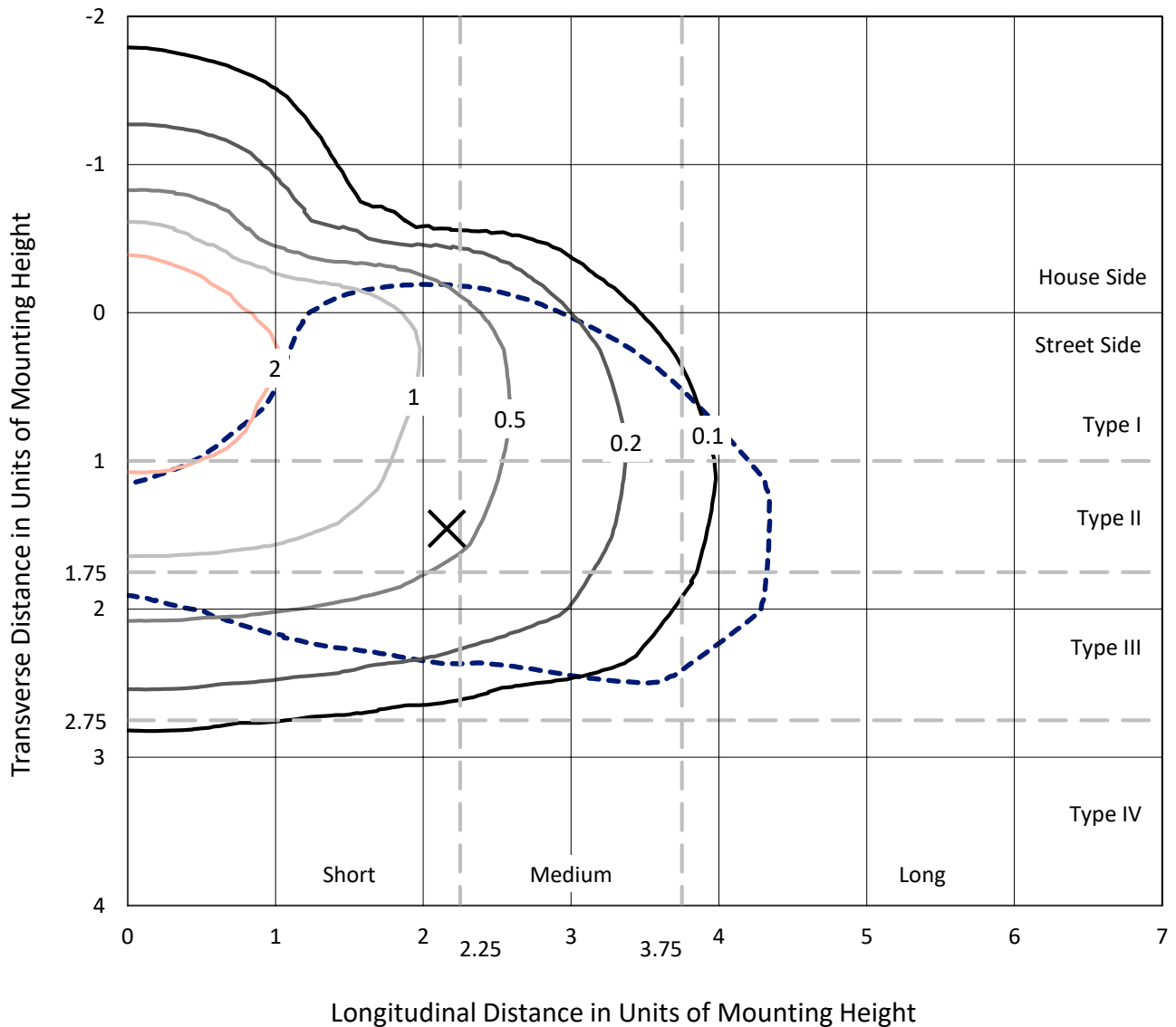
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

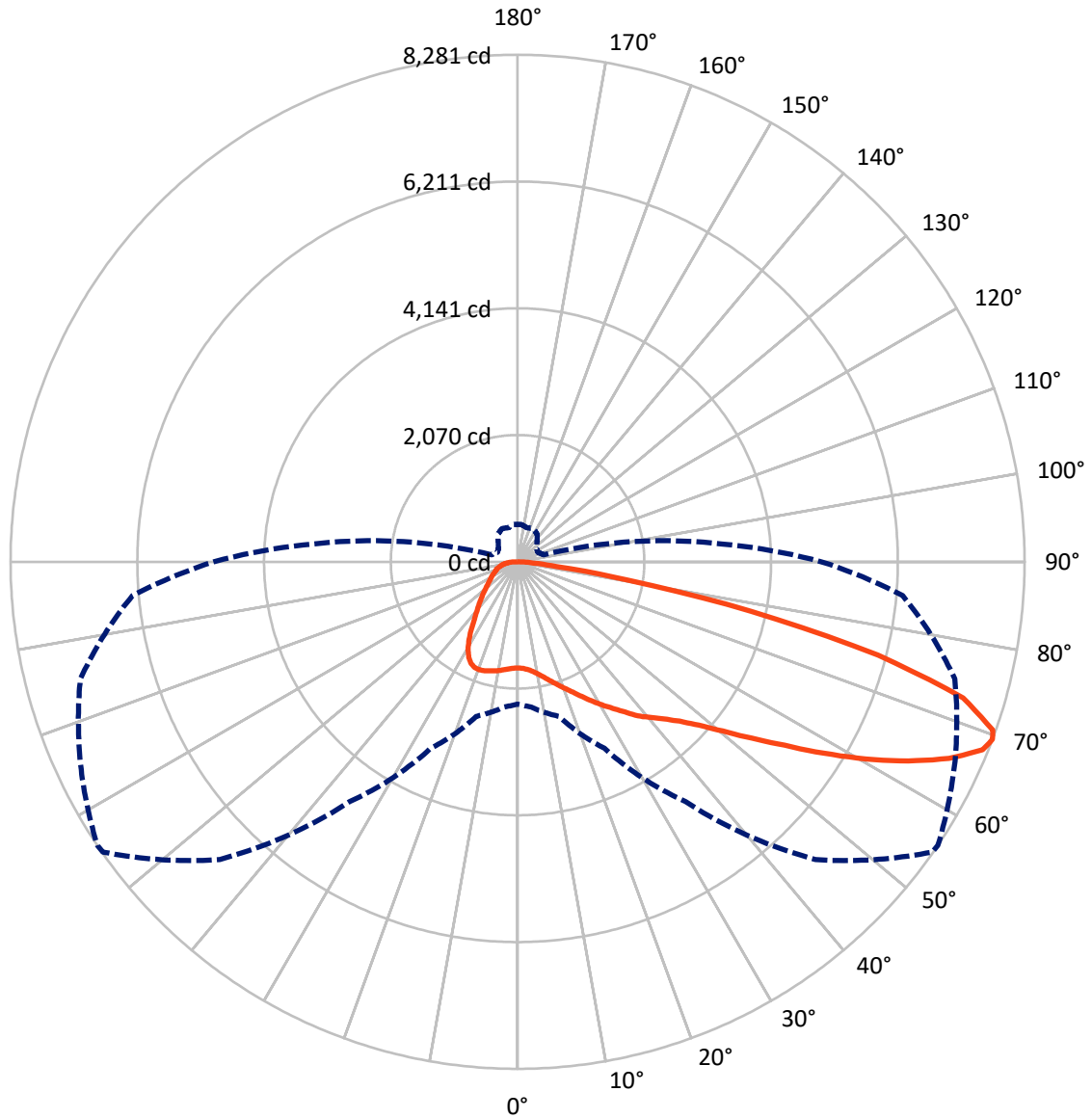
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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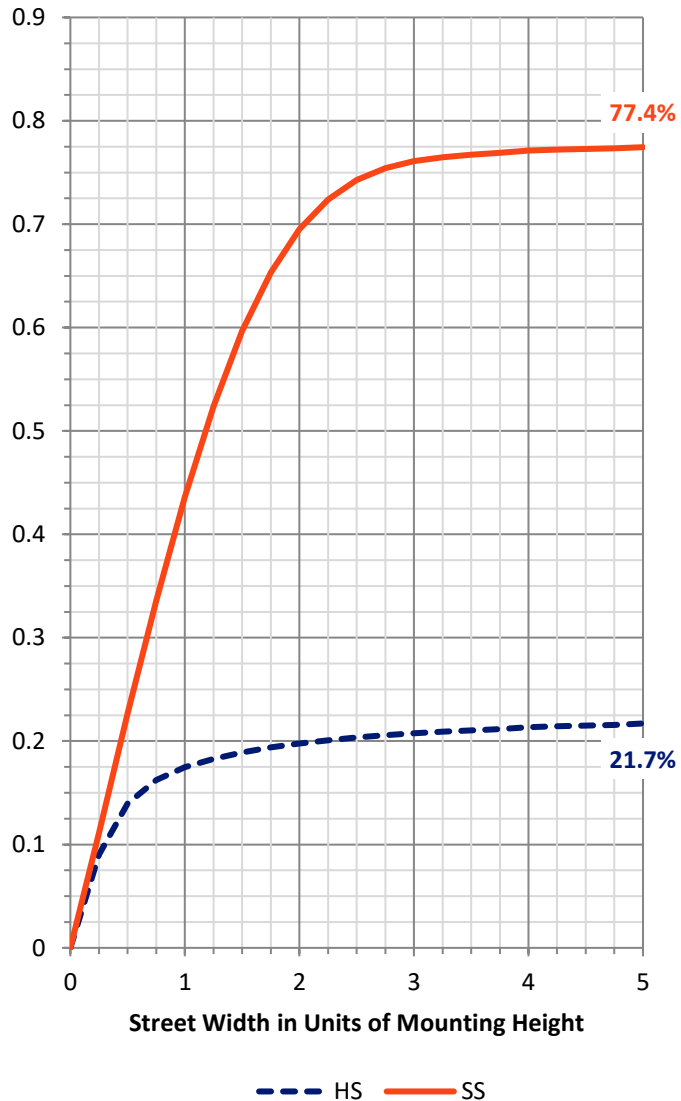
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2952.3	0.0	2952.3
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	10304.6	0.0	10304.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	13256.9	0.0	13256.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.2	1.3
10°-20°	547.4	4.1
20°-30°	955.5	7.2
30°-40°	1372.5	10.4
40°-50°	1899.5	14.3
50°-60°	2783.0	21.0
60°-70°	3393.0	25.6
70°-80°	1875.9	14.2
80°-90°	259.8	2.0
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°	13256.9	100.0
0°-180°	13256.9	100.0

**Coefficient of Utilization**

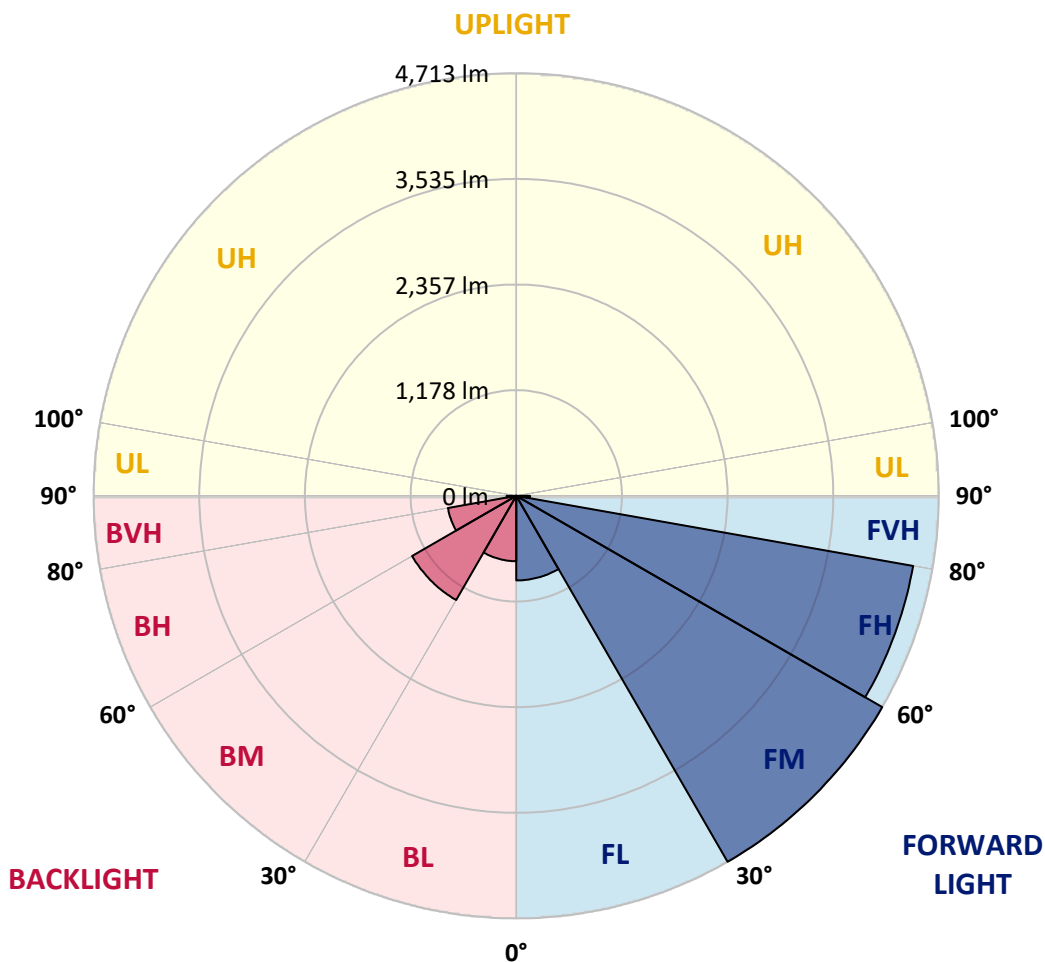


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.5	7.1			
FM (30°-60°)	4713.3	35.6			
FH (60°-80°)	4494.7	33.9			G2/5000
FVH (80°-90°)	153.0	1.2			G2/225
BL (0°-30°)	729.6	5.5	B2/1000		
BM (30°-60°)	1341.7	10.1	B2/2500		
BH (60°-80°)	774.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	106.8	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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1
2.5°	1744.1	1745.9	1744.5	1748.2	1744.1	1746.8	1744.5	1744.5	1743.2	1739.1	1734.5
5°	1771.5	1775.2	1772.8	1776.6	1771.5	1772.5	1768.3	1768.3	1764.2	1755.5	1746.4
7.5°	1814.5	1818.6	1816.7	1820.3	1813.5	1813.5	1808.0	1807.6	1799.4	1785.2	1774.7
10°	1865.6	1871.0	1869.2	1874.7	1869.2	1871.0	1865.6	1865.6	1854.6	1834.5	1821.3
12.5°	1940.0	1946.8	1941.8	1941.3	1939.1	1942.7	1938.2	1937.2	1927.2	1899.8	1881.5
15°	2039.5	2046.9	2036.4	2035.4	2022.7	2021.3	2021.3	2020.0	2013.5	1980.7	1950.5
17.5°	2154.2	2156.4	2147.3	2132.8	2116.3	2105.8	2104.5	2108.1	2108.1	2069.7	2021.7
20°	2266.5	2270.6	2263.4	2246.9	2225.9	2210.4	2199.4	2206.7	2206.3	2160.6	2092.5
22.5°	2389.0	2398.5	2387.6	2366.6	2341.9	2324.6	2305.4	2311.7	2312.2	2256.0	2161.9
25°	2547.4	2538.7	2531.9	2502.2	2467.0	2449.2	2431.4	2437.8	2436.0	2358.8	2233.7
27.5°	2687.6	2689.5	2680.3	2648.8	2608.1	2568.8	2568.0	2572.1	2565.2	2465.6	2301.3
30°	2850.6	2851.6	2838.8	2810.5	2766.1	2715.5	2703.6	2710.4	2695.8	2567.1	2372.5
32.5°	3012.8	3017.4	3003.2	2968.9	2933.4	2871.7	2847.9	2852.5	2816.0	2670.7	2446.1
35°	3154.8	3161.2	3156.6	3133.8	3095.0	3042.0	3013.6	3010.9	2965.8	2797.7	2543.3
37.5°	3299.5	3305.5	3300.5	3281.3	3265.8	3209.6	3194.6	3194.6	3116.0	2927.4	2667.0
40°	3448.5	3457.6	3451.7	3425.2	3411.9	3386.4	3350.3	3341.6	3256.7	3083.1	2868.9
42.5°	3586.8	3598.7	3622.4	3607.0	3579.9	3583.7	3511.0	3506.4	3444.3	3313.2	3122.4
45°	3783.2	3800.5	3840.8	3828.8	3823.4	3803.3	3717.0	3712.9	3689.1	3622.9	3437.0
47.5°	3997.4	4021.1	4093.8	4096.0	4155.0	4117.1	3999.7	3985.5	3991.0	3993.7	3821.1
50°	4194.7	4220.7	4339.9	4396.1	4535.0	4543.2	4355.5	4342.7	4364.1	4427.2	4268.6
52.5°	4352.3	4385.2	4534.0	4707.6	4945.5	5013.0	4793.4	4783.8	4799.8	4908.5	4774.6
55°	4467.8	4503.4	4665.6	4981.5	5361.5	5480.8	5297.6	5288.5	5298.5	5436.9	5325.0
57.5°	4494.7	4503.4	4738.6	5166.1	5712.7	5999.1	5914.6	5896.3	5847.0	5967.6	5932.4
60°	4368.2	4403.0	4678.3	5230.9	5984.4	6510.1	6559.4	6536.6	6398.2	6496.9	6468.6
62.5°	4111.6	4173.7	4453.2	5132.3	6090.8	6927.5	7191.9	7164.5	6926.1	6990.1	6854.0
65°	3692.4	3718.8	4012.5	4792.1	5955.7	7194.7	7756.0	7742.3	7442.2	7342.2	6925.2
67.5°	2942.5	2992.2	3241.6	4081.0	5402.6	7163.1	8192.1	8190.7	7779.3	7472.8	6672.7
69°	2324.6	2376.2	2613.6	3361.7	4780.6	6875.0	8265.2	8281.2	7874.2	7393.3	6311.9
70°	1853.2	1913.0	2076.1	2831.4	4228.5	6495.0	8204.4	8233.2	7855.9	7262.3	5979.0
72.5°	788.7	837.1	953.1	1459.5	2577.1	4850.0	7501.6	7610.3	7432.6	6646.7	4941.4
75°	344.3	359.4	411.9	595.1	1144.0	2639.6	5876.7	6077.6	6355.3	5618.2	3680.9
77.5°	252.1	258.5	287.3	349.3	513.3	996.9	3779.1	3896.0	4583.3	4088.3	2257.9
80°	195.0	199.5	222.0	256.6	335.2	403.3	1723.5	1824.0	2577.1	2099.9	940.3
82.5°	155.3	158.5	174.0	189.1	231.6	244.3	572.2	634.8	951.3	580.0	248.9
85°	144.3	147.9	153.4	138.0	148.4	143.4	247.5	259.0	287.3	227.9	104.1
87.5°	65.3	77.2	152.1	107.3	79.0	63.1	101.4	105.9	119.2	119.6	46.1
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°	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1	1733.1
2.5°	1737.2	1735.8	1738.2	1732.7	1739.6	1739.1	1736.8	1737.7	1742.3	1741.8	1742.3
5°	1747.8	1746.8	1749.5	1745.4	1753.7	1756.4	1756.9	1761.0	1766.0	1767.4	1767.4
7.5°	1774.2	1774.2	1775.6	1770.1	1775.6	1775.2	1772.8	1777.0	1782.0	1782.4	1782.0
10°	1819.9	1820.3	1818.1	1803.9	1799.4	1787.0	1775.6	1776.1	1782.4	1787.5	1788.9
12.5°	1877.4	1875.6	1865.6	1839.5	1820.3	1795.3	1783.4	1782.9	1789.3	1793.4	1794.8
15°	1943.2	1938.2	1912.2	1869.7	1835.9	1811.2	1792.0	1787.5	1783.8	1779.3	1779.7
17.5°	2005.3	1993.9	1950.5	1891.6	1856.0	1823.1	1786.1	1756.4	1735.8	1724.0	1720.4
20°	2068.3	2046.0	1983.4	1912.2	1866.9	1807.1	1735.8	1675.6	1638.1	1620.8	1617.6
22.5°	2125.9	2089.8	2014.0	1933.6	1858.3	1753.3	1641.3	1553.6	1501.6	1478.3	1480.1
25°	2182.1	2131.8	2046.0	1948.7	1814.5	1658.2	1509.9	1402.1	1341.7	1315.7	1314.8
27.5°	2231.3	2174.3	2080.7	1936.3	1732.7	1523.1	1354.1	1249.0	1198.8	1176.5	1172.8
30°	2288.0	2227.7	2126.8	1889.4	1613.1	1366.9	1202.0	1128.0	1092.4	1070.0	1065.9
32.5°	2357.0	2300.4	2164.7	1803.9	1460.0	1203.8	1083.3	1031.7	999.3	974.1	969.6
35°	2457.4	2396.2	2174.3	1681.5	1292.0	1075.0	996.0	943.1	899.2	866.8	863.6
37.5°	2583.5	2516.4	2152.3	1523.1	1128.9	991.4	923.4	858.1	801.0	755.4	748.0
40°	2765.2	2663.9	2091.6	1340.4	1008.9	927.1	852.6	778.2	707.4	653.9	643.5
42.5°	2983.6	2836.9	1998.4	1158.7	920.6	861.8	782.3	690.1	622.5	584.5	579.0
45°	3261.3	3016.9	1869.2	999.7	833.9	796.5	706.5	621.5	579.5	551.7	547.1
47.5°	3578.2	3218.8	1733.6	870.4	760.4	735.3	645.7	591.0	557.6	535.7	531.5
50°	3967.7	3446.6	1589.8	764.5	686.4	661.8	617.0	574.0	547.6	530.7	526.6
52.5°	4407.1	3703.7	1486.1	681.0	625.2	607.4	601.9	564.9	543.5	530.7	526.6
55°	4880.2	3965.4	1374.2	610.6	572.2	577.3	591.9	565.8	551.2	535.7	529.8
57.5°	5353.8	4235.7	1249.5	551.2	530.2	554.9	585.0	567.7	555.3	540.3	534.8
60°	5728.3	4407.1	1056.3	501.5	496.9	530.2	568.6	554.0	538.0	538.4	537.5
62.5°	5903.1	4397.9	843.1	457.1	463.5	496.9	542.1	532.5	519.2	537.0	538.4
65°	5804.9	4178.7	656.3	417.0	428.0	462.1	514.7	522.0	526.6	560.8	565.4
67.5°	5393.0	3752.2	508.3	381.7	395.5	438.4	517.5	568.6	574.5	610.6	610.2
69°	4966.9	3352.1	441.6	363.5	379.5	444.3	553.1	598.2	575.9	614.3	608.8
70°	4609.9	3035.6	406.0	351.2	372.2	454.9	576.8	597.8	569.0	601.9	592.7
72.5°	3550.3	2183.9	344.3	328.4	347.6	435.2	583.6	584.5	553.1	559.5	543.9
75°	2435.1	1380.1	300.5	297.3	310.1	392.3	561.7	558.6	511.5	502.4	489.5
77.5°	1342.6	701.0	255.2	267.6	276.3	347.6	510.6	506.0	467.2	448.0	443.4
80°	517.8	306.9	215.6	237.9	243.4	301.0	447.5	443.4	411.0	386.3	379.5
82.5°	195.4	160.8	178.1	206.0	204.1	248.4	379.0	376.8	345.2	309.2	298.2
85°	90.5	96.3	141.1	169.9	156.7	184.1	303.2	307.3	269.0	226.1	226.1
87.5°	38.4	53.8	100.0	128.4	105.5	124.2	222.5	212.4	195.0	135.2	127.0
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)