

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: P382979

Luminaire Tested: **GLEON-SA3B-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382979  
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-SA3B-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15949 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

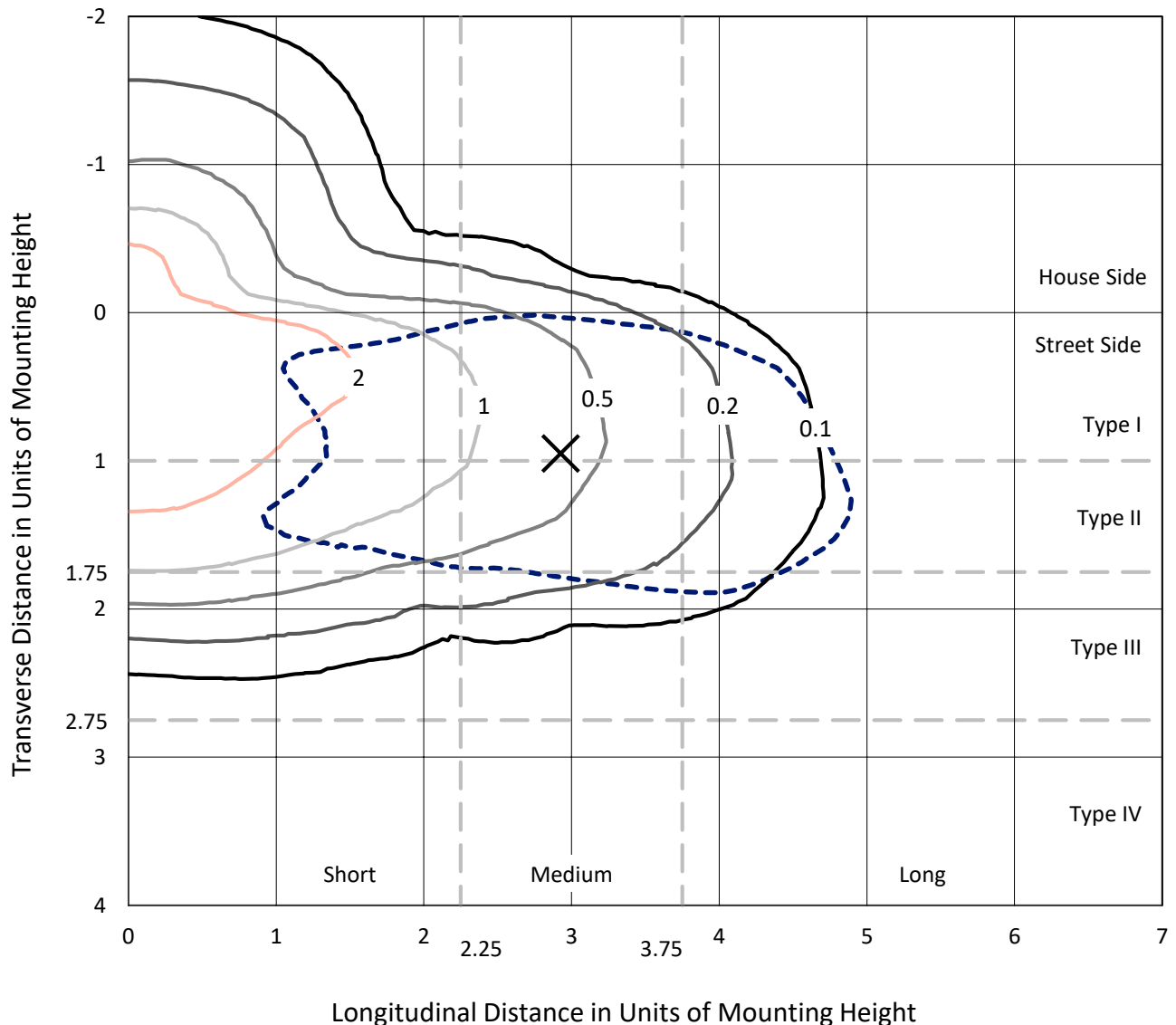
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

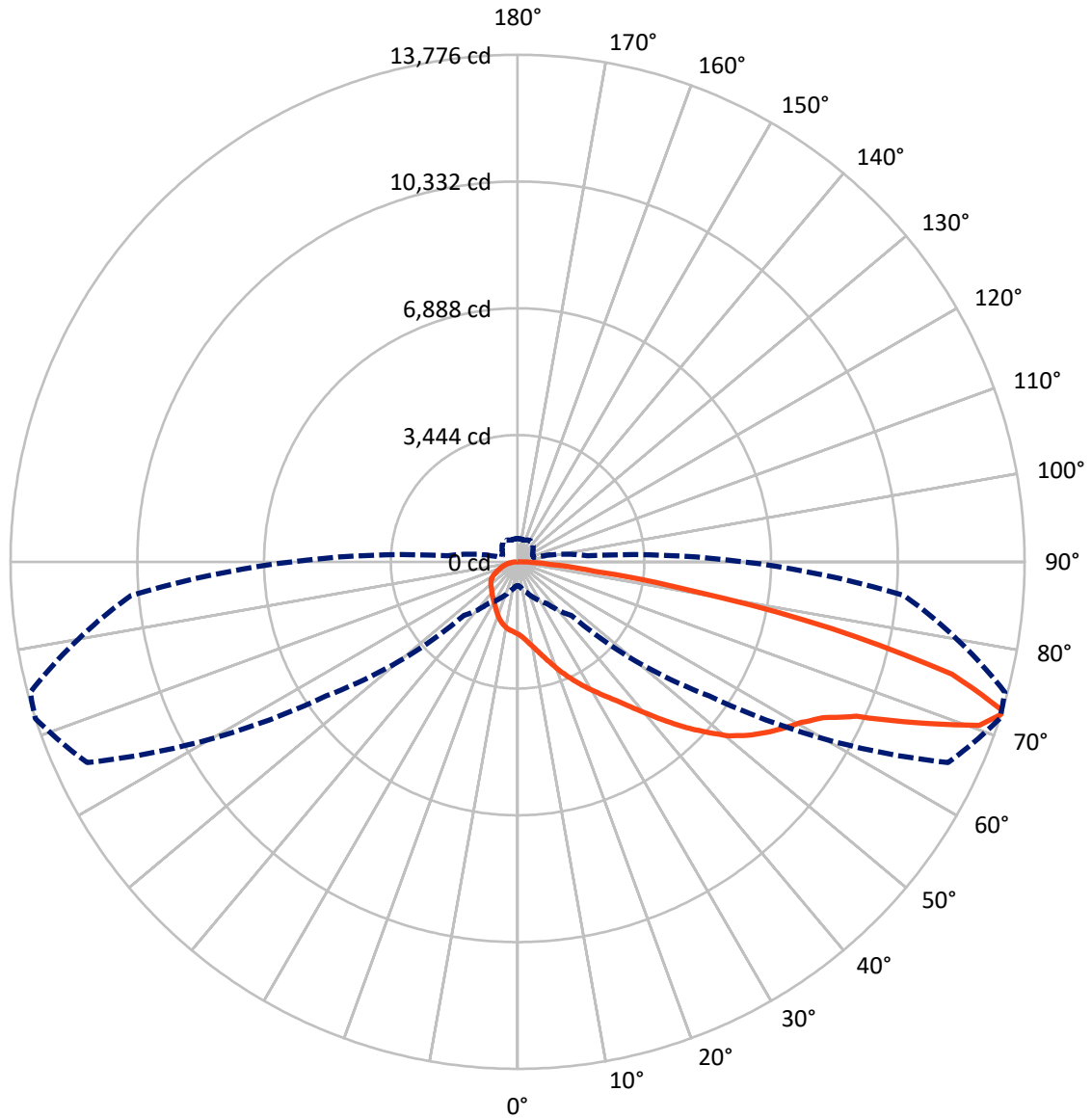
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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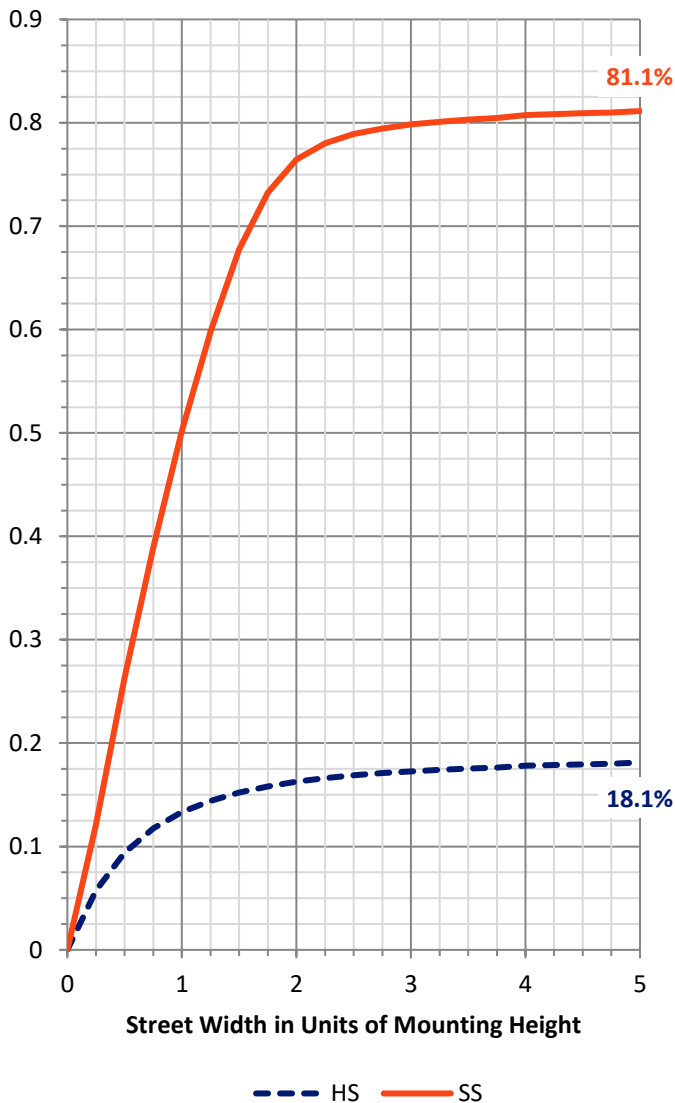
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2958.6	0.0	2958.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12990.4	0.0	12990.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15949.0	0.0	15949.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.6	1.2
10°-20°	635.4	4.0
20°-30°	1113.3	7.0
30°-40°	1650.7	10.4
40°-50°	2414.3	15.1
50°-60°	3322.1	20.8
60°-70°	3698.5	23.2
70°-80°	2506.1	15.7
80°-90°	411.9	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°	15949.0	100.0
0°-180°	15949.0	100.0

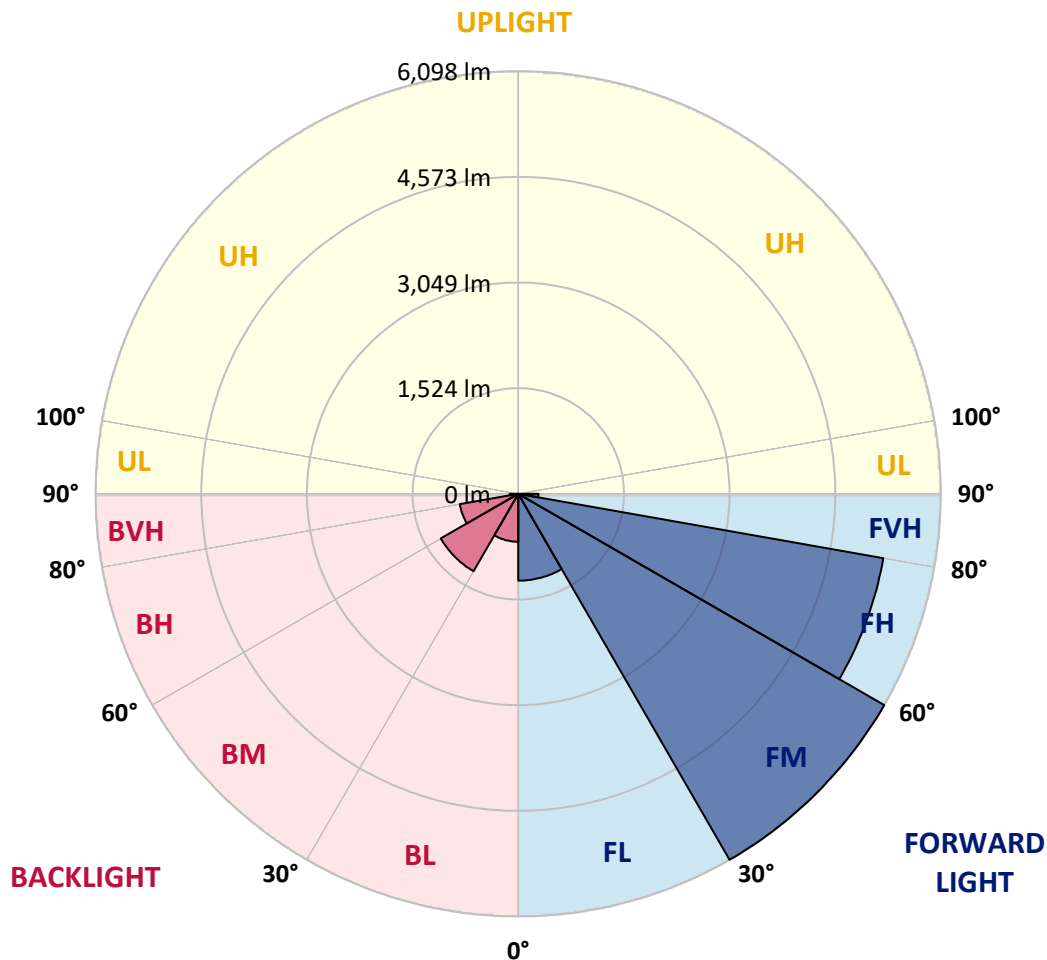


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.7	7.9			
FM (30°-60°)	6097.5	38.2			
FH (60°-80°)	5348.6	33.5			G3/7500
FVH (80°-90°)	290.5	1.8			G3/500
BL (0°-30°)	691.6	4.3	B2/1000		
BM (30°-60°)	1289.7	8.1	B2/2500		
BH (60°-80°)	856.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	121.4	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°	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1
2.5°	2167.5	2164.3	2152.7	2152.7	2130.7	2112.1	2076.9	2053.3	2025.3	2015.4	1982.4
5°	2377.3	2378.4	2364.2	2354.2	2321.9	2282.3	2222.5	2168.1	2113.7	2091.8	2024.2
7.5°	2553.6	2551.4	2547.6	2539.3	2509.1	2468.5	2387.7	2307.0	2226.9	2193.9	2077.4
10°	2666.7	2671.7	2674.9	2678.8	2666.2	2637.0	2560.7	2462.5	2357.6	2312.5	2141.2
12.5°	2723.8	2732.6	2748.0	2774.3	2795.2	2791.9	2736.4	2632.1	2507.4	2450.9	2220.8
15°	2757.3	2768.8	2793.1	2840.3	2899.0	2932.5	2917.7	2823.2	2684.3	2614.6	2318.0
17.5°	2778.2	2787.6	2824.9	2888.0	2975.4	3064.3	3103.3	3024.2	2884.2	2804.5	2429.5
20°	2792.5	2799.6	2846.3	2920.4	3033.6	3175.3	3284.0	3264.2	3104.4	3001.2	2545.9
22.5°	2824.4	2830.3	2874.8	2949.6	3074.8	3257.6	3458.1	3487.7	3336.7	3219.7	2670.6
25°	2913.3	2913.3	2950.7	3002.8	3120.3	3329.0	3605.3	3736.4	3574.0	3437.8	2785.9
27.5°	3083.0	3081.4	3095.1	3113.1	3202.1	3401.5	3736.4	3956.2	3820.0	3671.1	2898.0
30°	3284.0	3295.0	3296.6	3287.8	3329.5	3492.1	3857.8	4187.9	4067.6	3907.3	3012.7
32.5°	3542.6	3549.8	3541.6	3512.4	3506.3	3620.6	3977.1	4430.6	4335.6	4153.9	3117.6
35°	3871.0	3857.3	3831.5	3772.2	3715.6	3792.5	4113.2	4673.4	4636.6	4452.1	3262.0
37.5°	4223.1	4223.5	4191.8	4057.2	3979.2	4012.2	4301.0	4948.5	5000.6	4806.8	3447.1
40°	4505.3	4520.1	4539.9	4363.1	4262.0	4307.6	4539.9	5267.5	5431.2	5227.5	3688.2
42.5°	4702.5	4719.5	4775.5	4664.5	4559.6	4644.2	4821.0	5608.0	5914.5	5712.9	3970.4
45°	4911.1	4920.4	4960.0	4912.2	4845.3	5035.8	5138.0	5960.6	6425.7	6230.2	4286.1
47.5°	5130.8	5140.7	5181.4	5149.5	5114.3	5401.5	5468.6	6292.8	6915.5	6798.6	4623.4
50°	5402.0	5408.7	5447.1	5389.5	5400.5	5677.2	5764.0	6597.6	7429.0	7309.3	4961.6
52.5°	5772.2	5773.8	5827.1	5774.9	5723.3	5879.3	6018.3	6884.8	7831.5	7775.0	5299.9
55°	6062.1	6079.7	6254.4	6243.4	6213.7	6062.7	6230.7	7158.3	8190.7	8217.6	5659.1
57.5°	5877.1	5945.8	6299.4	6548.7	6791.4	6519.1	6517.9	7466.4	8524.6	8652.0	6053.9
60°	5147.3	5240.6	5761.8	6314.8	7074.3	7313.1	7114.3	7842.5	8861.8	9082.6	6548.7
62.5°	3676.1	3829.9	4536.1	5419.1	6686.6	7839.3	8328.0	8439.4	9320.3	9581.2	7191.8
65°	1858.3	1974.8	2566.8	3630.5	5342.2	7495.5	9647.1	9746.5	10117.2	10348.9	8182.0
67.5°	1129.0	1173.0	1461.9	2019.2	3275.2	5838.7	10077.7	11925.0	11659.2	11782.2	9593.8
70°	832.0	864.4	1044.5	1341.1	1883.6	3426.2	8756.4	13479.7	13305.0	13291.3	10637.2
72°	648.0	671.6	830.8	1083.5	1377.3	2055.5	6346.6	12905.8	13776.2	13707.0	10541.7
72.5°	614.5	635.4	780.4	1019.8	1301.5	1863.3	5706.3	12518.6	13742.2	13710.9	10418.1
75°	483.8	498.7	577.7	788.6	1018.6	1057.1	3126.9	9701.4	12190.8	12697.6	9370.3
77.5°	400.4	402.5	444.3	573.8	794.1	747.4	1536.0	6731.1	8729.4	9286.9	6637.6
80°	326.2	328.9	348.7	402.5	600.8	553.0	729.3	3870.5	4887.6	4893.5	3156.5
82.5°	259.7	260.3	282.3	294.4	431.7	395.3	417.9	1817.2	2135.7	2054.4	1134.5
85°	182.9	179.0	275.6	241.6	282.3	253.8	230.7	719.4	883.0	844.6	355.3
87.5°	60.9	63.2	122.5	156.5	164.8	143.9	102.7	275.6	333.3	330.6	112.6
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°	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1	1962.1
2.5°	1972.0	1954.5	1928.7	1900.1	1877.5	1854.5	1837.5	1828.7	1818.8	1810.6	1820.4
5°	1992.9	1960.0	1905.0	1851.2	1811.7	1776.6	1751.3	1738.1	1726.0	1717.8	1718.9
7.5°	2027.0	1973.7	1881.4	1802.9	1748.0	1710.0	1684.2	1675.5	1667.8	1665.6	1668.3
10°	2063.2	1984.7	1850.1	1745.8	1683.2	1651.9	1640.4	1646.4	1651.9	1656.9	1662.3
12.5°	2104.4	1994.5	1804.5	1678.7	1625.6	1613.4	1625.0	1651.4	1670.5	1682.1	1689.2
15°	2158.2	2003.3	1751.8	1611.8	1576.1	1589.8	1628.8	1674.4	1707.9	1729.3	1732.6
17.5°	2207.6	2002.8	1684.2	1544.2	1536.0	1576.1	1634.9	1699.1	1744.1	1774.3	1780.4
20°	2258.7	1987.9	1605.7	1478.4	1495.3	1561.3	1637.6	1715.0	1769.4	1804.5	1812.8
22.5°	2306.5	1962.1	1519.5	1418.5	1461.3	1541.5	1627.1	1705.7	1760.1	1788.6	1797.4
25°	2338.8	1917.1	1432.2	1368.0	1431.1	1517.3	1593.1	1656.3	1696.9	1711.2	1713.4
27.5°	2355.3	1858.3	1349.8	1324.0	1399.8	1477.8	1530.0	1561.3	1572.8	1571.7	1569.5
30°	2357.6	1780.9	1279.0	1288.3	1363.6	1419.6	1444.3	1438.2	1423.4	1398.2	1400.4
32.5°	2350.4	1693.6	1219.7	1254.2	1317.4	1348.7	1349.8	1320.7	1281.2	1241.1	1230.1
35°	2352.6	1607.9	1167.5	1215.9	1261.4	1275.1	1262.5	1219.7	1165.8	1114.2	1103.2
37.5°	2376.8	1533.2	1122.5	1171.3	1199.4	1202.6	1184.6	1139.5	1100.0	1049.5	1045.0
40°	2434.4	1479.9	1079.7	1121.4	1137.3	1138.9	1113.1	1081.3	1084.6	1057.7	1057.1
42.5°	2538.2	1456.9	1041.7	1069.2	1079.1	1082.4	1062.6	1042.3	1070.9	1053.3	1047.2
45°	2672.2	1462.4	1009.9	1018.2	1036.3	1051.6	1039.5	1014.8	1025.8	949.5	924.3
47.5°	2827.1	1497.6	984.6	974.2	1005.5	1034.6	1015.9	978.6	939.7	863.8	849.6
50°	3008.3	1552.0	961.5	930.8	972.0	1011.6	992.8	939.7	880.9	844.1	839.1
52.5°	3197.2	1618.4	938.5	883.0	929.7	994.0	984.6	930.8	858.3	822.1	815.5
55°	3411.4	1685.4	909.4	827.6	884.1	985.8	980.8	898.9	841.3	821.0	816.0
57.5°	3677.7	1761.7	871.0	769.9	841.3	956.0	940.7	879.8	823.8	808.4	806.7
60°	4024.8	1874.3	815.5	708.4	789.1	910.5	907.2	851.7	795.7	784.7	782.6
62.5°	4545.4	2060.5	739.2	646.9	730.9	833.1	863.3	813.9	766.1	765.5	766.7
65°	5352.7	2340.5	656.3	593.1	672.2	767.7	812.2	774.9	735.8	746.8	748.5
67.5°	6288.4	2572.8	575.0	540.4	612.3	705.6	766.1	735.8	695.8	724.4	724.9
70°	6599.8	2365.2	503.6	488.2	550.3	645.8	716.1	693.1	652.4	681.0	678.2
72°	6141.8	1909.4	457.5	448.6	503.6	596.4	671.6	652.9	612.9	632.1	625.0
72.5°	5997.4	1820.4	445.9	438.8	490.9	583.8	660.1	643.0	603.0	619.5	612.9
75°	5349.9	1581.0	383.3	384.9	428.3	522.2	595.3	589.8	548.6	550.3	548.0
77.5°	3880.4	1159.3	322.9	333.9	364.6	459.1	530.0	526.6	481.6	473.4	471.7
80°	1800.7	591.4	263.1	268.0	299.9	383.9	452.0	447.6	411.3	400.8	394.9
82.5°	616.7	281.1	197.7	201.0	232.3	309.2	392.1	389.4	359.1	338.8	326.2
85°	220.2	140.0	138.4	135.1	165.8	243.3	341.6	326.8	282.3	240.5	239.4
87.5°	71.4	59.9	71.4	70.8	96.7	164.8	248.3	211.5	204.8	170.2	166.9
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)