

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: P318207

Luminaire Tested: **GLEON-SA3C-827-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318207  
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-SA3C-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15577 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

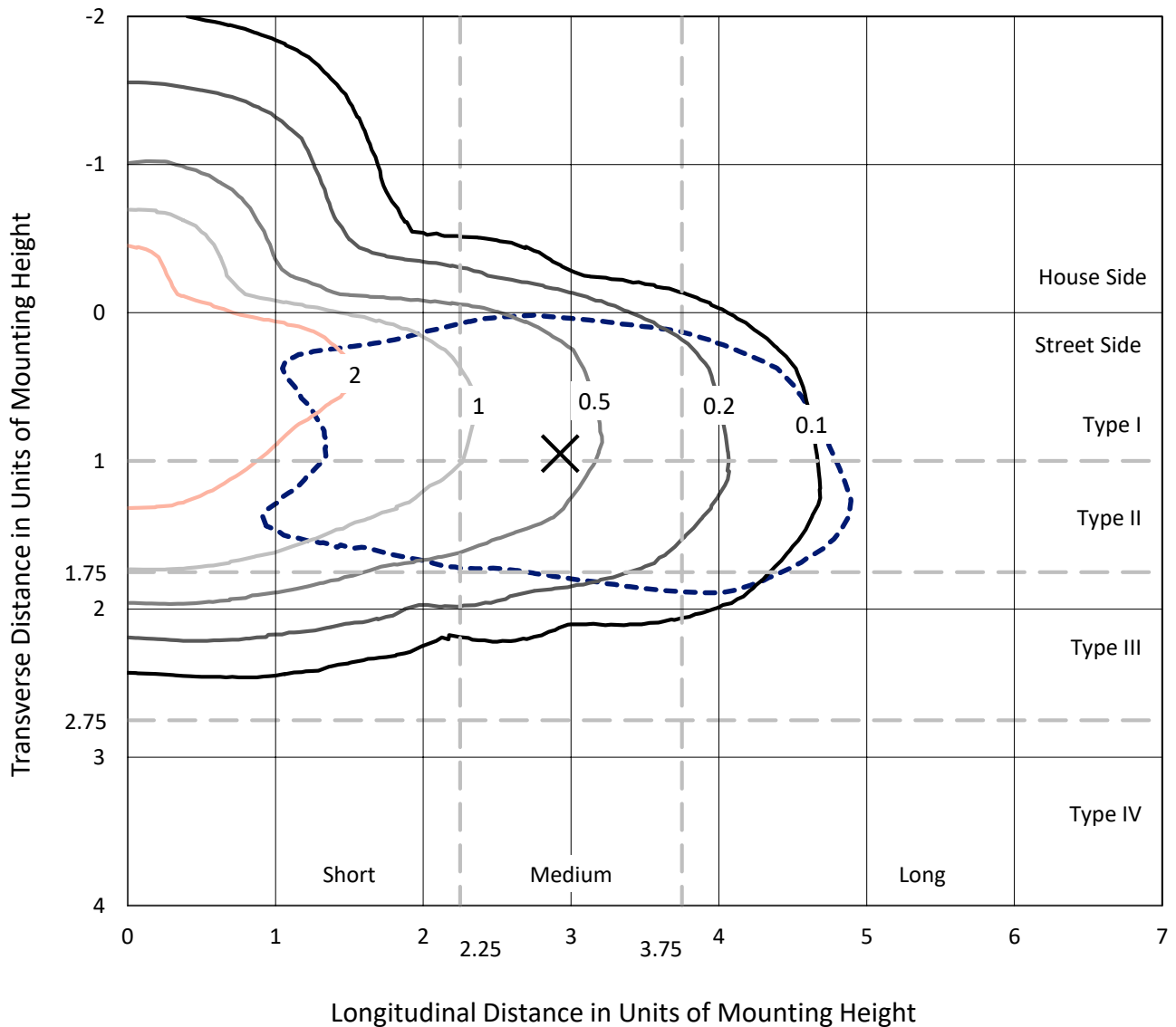
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

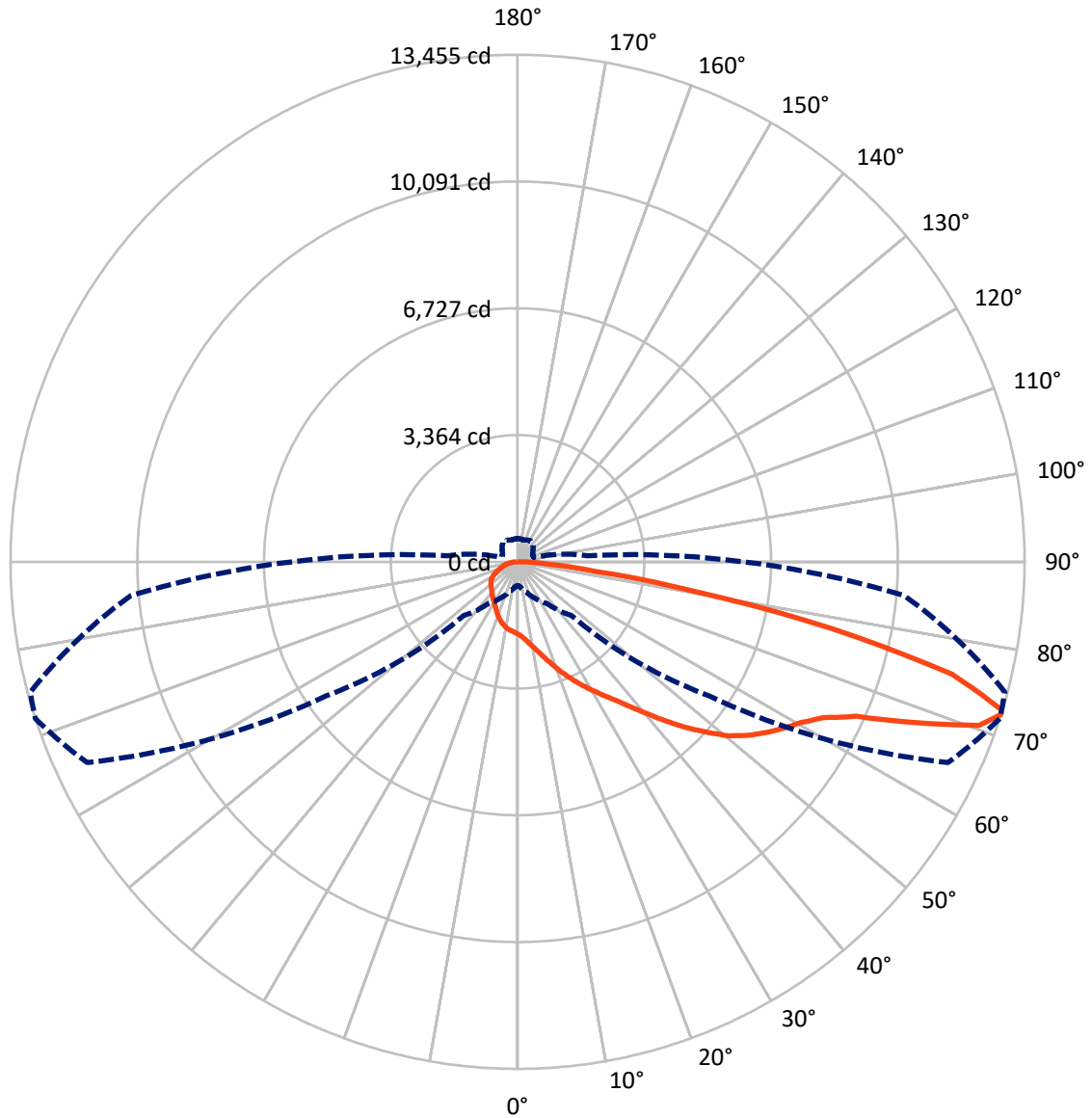
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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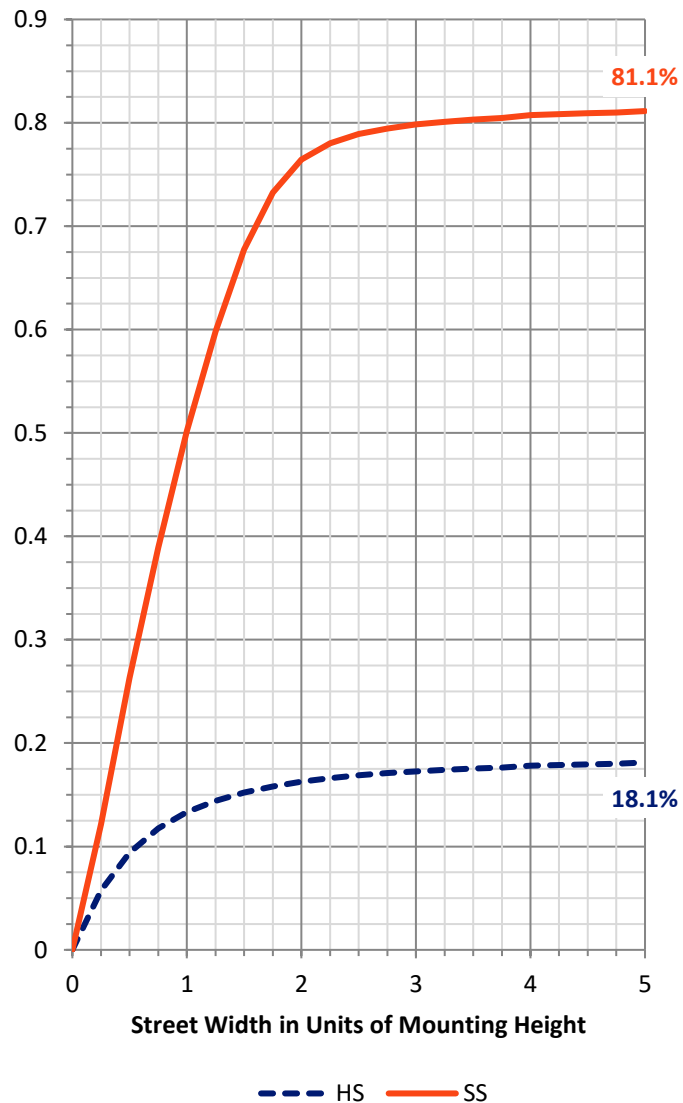
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2889.6	0.0	2889.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12687.4	0.0	12687.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15577.0	0.0	15577.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.0	1.2
10°-20°	620.5	4.0
20°-30°	1087.4	7.0
30°-40°	1612.2	10.4
40°-50°	2358.0	15.1
50°-60°	3244.6	20.8
60°-70°	3612.2	23.2
70°-80°	2447.6	15.7
80°-90°	402.3	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°	15577.0	100.0
0°-180°	15577.0	100.0

**Coefficient of Utilization**



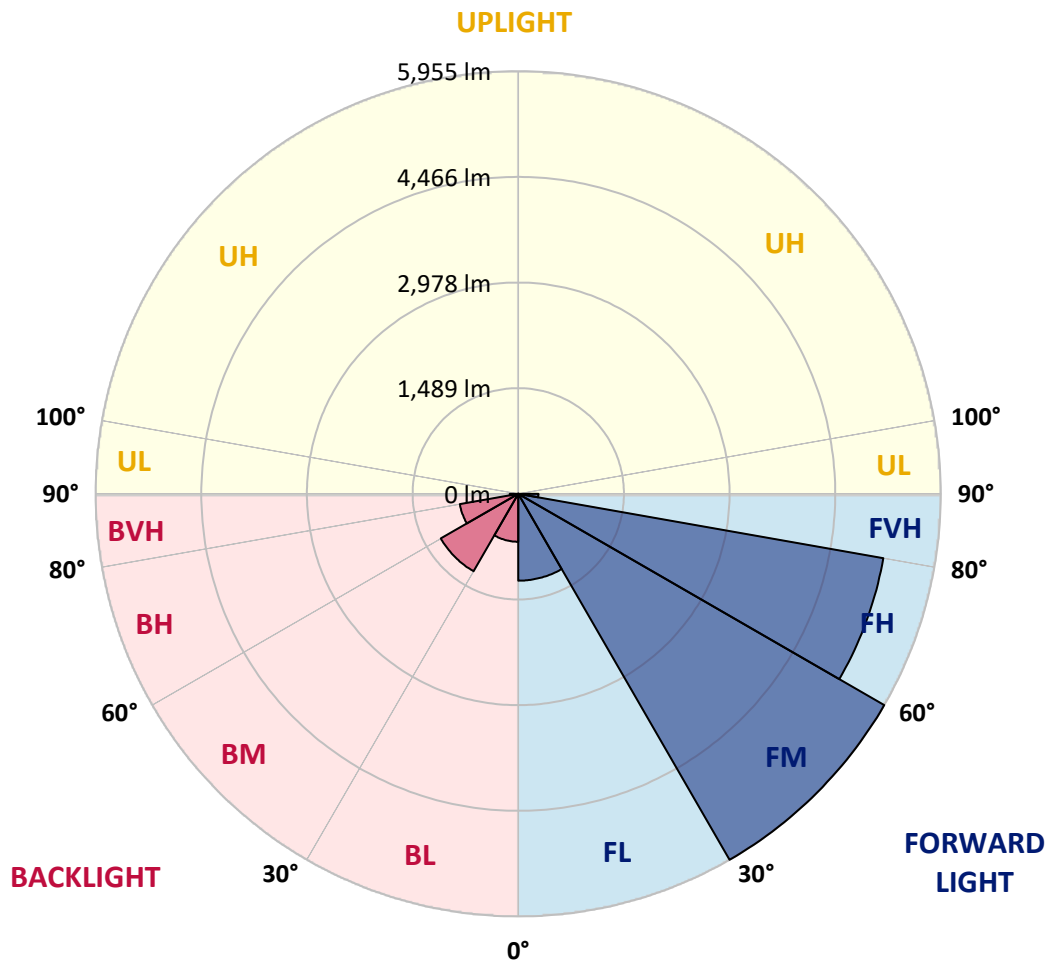
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.4	7.9			
FM (30°-60°)	5955.3	38.2			
FH (60°-80°)	5223.9	33.5			G3/7500
FVH (80°-90°)	283.8	1.8			G3/500
BL (0°-30°)	675.5	4.3	B2/1000		
BM (30°-60°)	1259.6	8.1	B2/2500		
BH (60°-80°)	836.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	118.5	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°	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4
2.5°	2117.0	2113.8	2102.5	2102.5	2081.0	2062.8	2028.5	2005.4	1978.1	1968.4	1936.2
5°	2321.9	2322.9	2309.0	2299.3	2267.7	2229.1	2170.6	2117.5	2064.4	2043.0	1977.0
7.5°	2494.0	2491.9	2488.1	2480.1	2450.6	2410.9	2332.0	2253.2	2174.9	2142.7	2029.0
10°	2604.5	2609.3	2612.6	2616.3	2604.0	2575.6	2501.0	2405.0	2302.5	2258.6	2091.2
12.5°	2660.3	2668.9	2683.9	2709.6	2730.0	2726.8	2672.6	2570.7	2449.0	2393.7	2169.0
15°	2693.0	2704.3	2727.9	2774.0	2831.4	2864.1	2849.6	2757.4	2621.7	2553.6	2263.9
17.5°	2713.4	2722.5	2759.0	2820.7	2905.9	2992.8	3030.9	2953.7	2816.9	2739.1	2372.8
20°	2727.3	2734.3	2779.9	2852.3	2962.8	3101.2	3207.4	3188.1	3032.0	2931.2	2486.5
22.5°	2758.4	2764.3	2807.8	2880.7	3003.0	3181.6	3377.4	3406.4	3258.9	3144.6	2608.3
25°	2845.3	2845.3	2881.8	2932.8	3047.5	3251.4	3521.1	3649.3	3490.6	3357.5	2720.9
27.5°	3011.1	3009.5	3022.9	3040.6	3127.5	3322.1	3649.3	3863.9	3730.8	3585.5	2830.3
30°	3207.4	3218.1	3219.7	3211.1	3251.9	3410.6	3767.9	4090.2	3972.7	3816.1	2942.4
32.5°	3460.0	3467.0	3458.9	3430.5	3424.6	3536.2	3884.2	4327.3	4234.5	4056.9	3044.9
35°	3780.7	3767.3	3742.1	3684.2	3628.9	3704.0	4017.3	4564.3	4528.4	4348.2	3185.9
37.5°	4124.5	4125.1	4094.0	3962.6	3886.4	3918.6	4200.7	4833.0	4884.0	4694.7	3366.7
40°	4400.2	4414.7	4434.0	4261.3	4162.6	4207.1	4434.0	5144.7	5304.5	5105.5	3602.1
42.5°	4592.8	4609.4	4664.1	4555.8	4453.3	4535.9	4708.6	5477.2	5776.5	5579.6	3877.8
45°	4796.6	4805.7	4844.3	4797.6	4732.2	4918.3	5018.1	5821.5	6275.8	6084.9	4186.2
47.5°	5011.1	5020.8	5060.5	5029.4	4995.0	5275.5	5341.0	6146.0	6754.3	6640.0	4515.5
50°	5276.1	5282.5	5320.1	5263.7	5274.5	5544.8	5629.5	6443.7	7255.7	7138.8	4845.9
52.5°	5637.6	5639.2	5691.2	5640.3	5589.8	5742.2	5877.9	6724.2	7648.9	7593.6	5176.3
55°	5920.8	5937.9	6108.5	6097.8	6068.8	5921.3	6085.4	6991.3	7999.7	8025.9	5527.1
57.5°	5740.0	5807.1	6152.5	6396.0	6633.0	6367.0	6365.9	7292.2	8325.8	8450.2	5912.7
60°	5027.2	5118.4	5627.4	6167.5	6909.3	7142.6	6948.4	7659.6	8655.1	8870.7	6396.0
62.5°	3590.3	3740.5	4430.2	5292.7	6530.6	7656.4	8133.7	8242.6	9102.9	9357.7	7024.0
65°	1815.0	1928.7	2506.9	3545.8	5217.6	7320.6	9422.1	9519.1	9881.2	10107.5	7991.1
67.5°	1102.7	1145.6	1427.8	1972.2	3198.8	5702.5	9842.6	11646.8	11387.2	11507.4	9370.0
70°	812.6	844.2	1020.1	1309.8	1839.7	3346.3	8552.1	13165.2	12994.7	12981.3	10389.1
72°	632.9	656.0	811.5	1058.2	1345.2	2007.6	6198.6	12604.8	13454.9	13387.3	10295.8
72.5°	600.2	620.6	762.2	996.0	1271.1	1819.8	5573.2	12226.6	13421.6	13391.0	10175.1
75°	472.5	487.0	564.2	770.2	994.9	1032.5	3054.0	9475.2	11906.4	12401.5	9151.7
77.5°	391.0	393.1	433.9	560.5	775.6	730.0	1500.2	6574.0	8525.8	9070.2	6482.9
80°	318.6	321.3	340.6	393.1	586.8	540.1	712.3	3780.2	4773.5	4779.4	3082.9
82.5°	253.7	254.2	275.7	287.5	421.6	386.2	408.2	1774.8	2085.9	2006.5	1108.1
85°	178.6	174.8	269.2	236.0	275.7	247.8	225.3	702.6	862.5	824.9	347.0
87.5°	59.5	61.7	119.6	152.9	160.9	140.5	100.3	269.2	325.6	322.9	110.0
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°	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4	1916.4
2.5°	1926.0	1908.9	1883.7	1855.8	1833.8	1811.3	1794.6	1786.0	1776.4	1768.3	1778.0
5°	1946.4	1914.2	1860.6	1808.0	1769.4	1735.1	1710.4	1697.5	1685.7	1677.7	1678.8
7.5°	1979.7	1927.6	1837.5	1760.8	1707.2	1670.2	1645.0	1636.4	1628.9	1626.7	1629.4
10°	2015.1	1938.4	1807.0	1705.1	1643.9	1613.3	1602.1	1608.0	1613.3	1618.2	1623.5
12.5°	2055.3	1948.0	1762.4	1639.6	1587.6	1575.8	1587.1	1612.8	1631.6	1642.8	1649.8
15°	2107.9	1956.6	1711.0	1574.2	1539.3	1552.7	1590.8	1635.3	1668.0	1689.0	1692.2
17.5°	2156.1	1956.1	1645.0	1508.2	1500.2	1539.3	1596.7	1659.5	1703.4	1732.9	1738.8
20°	2206.0	1941.6	1568.3	1443.9	1460.5	1524.8	1599.4	1675.0	1728.1	1762.4	1770.5
22.5°	2252.7	1916.4	1484.1	1385.4	1427.2	1505.5	1589.2	1665.9	1719.0	1746.9	1755.5
25°	2284.3	1872.4	1398.8	1336.0	1397.7	1481.9	1556.0	1617.6	1657.3	1671.3	1673.4
27.5°	2300.4	1815.0	1318.3	1293.1	1367.2	1443.3	1494.3	1524.8	1536.1	1535.0	1532.9
30°	2302.5	1739.4	1249.2	1258.3	1331.8	1386.5	1410.6	1404.7	1390.2	1365.5	1367.7
32.5°	2295.6	1654.1	1191.2	1225.0	1286.7	1317.3	1318.3	1289.9	1251.3	1212.2	1201.4
35°	2297.7	1570.4	1140.3	1187.5	1232.0	1245.4	1233.1	1191.2	1138.7	1088.3	1077.5
37.5°	2321.3	1497.5	1096.3	1144.0	1171.4	1174.6	1156.9	1112.9	1074.3	1025.0	1020.7
40°	2377.6	1445.5	1054.5	1095.2	1110.8	1112.4	1087.2	1056.1	1059.3	1033.0	1032.5
42.5°	2479.0	1422.9	1017.5	1044.3	1053.9	1057.1	1037.8	1018.0	1045.9	1028.7	1022.8
45°	2609.9	1428.3	986.3	994.4	1012.1	1027.1	1015.3	991.2	1001.9	927.3	902.7
47.5°	2761.1	1462.6	961.7	951.5	982.1	1010.5	992.2	955.8	917.7	843.7	829.7
50°	2938.1	1515.7	939.1	909.1	949.3	988.0	969.7	917.7	860.3	824.4	819.5
52.5°	3122.6	1580.6	916.6	862.5	908.0	970.8	961.7	909.1	838.3	802.9	796.5
55°	3331.8	1646.1	888.2	808.3	863.5	962.7	957.9	878.0	821.7	801.8	797.0
57.5°	3591.9	1720.6	850.7	752.0	821.7	933.8	918.8	859.2	804.5	789.5	787.9
60°	3930.9	1830.6	796.5	691.9	770.7	889.3	886.0	831.9	777.2	766.4	764.3
62.5°	4439.4	2012.4	721.9	631.8	713.9	813.6	843.1	794.9	748.2	747.7	748.7
65°	5227.8	2285.9	640.9	579.3	656.5	749.8	793.3	756.8	718.7	729.4	731.0
67.5°	6141.7	2512.8	561.6	527.8	598.0	689.2	748.2	718.7	679.6	707.4	708.0
70°	6445.9	2310.1	491.8	476.8	537.4	630.7	699.4	676.9	637.2	665.1	662.4
72°	5998.5	1864.9	446.8	438.2	491.8	582.5	656.0	637.7	598.6	617.3	610.4
72.5°	5857.5	1778.0	435.5	428.5	479.5	570.1	644.7	628.1	588.9	605.0	598.6
75°	5225.1	1544.2	374.4	376.0	418.4	510.1	581.4	576.0	535.8	537.4	535.3
77.5°	3789.8	1132.2	315.4	326.1	356.1	448.4	517.6	514.4	470.4	462.3	460.7
80°	1758.7	577.6	256.9	261.7	292.8	374.9	441.4	437.1	401.7	391.5	385.6
82.5°	602.3	274.6	193.1	196.3	226.9	302.0	383.0	380.3	350.8	330.9	318.6
85°	215.1	136.8	135.2	131.9	162.0	237.6	333.6	319.1	275.7	234.9	233.8
87.5°	69.7	58.5	69.7	69.2	94.4	160.9	242.4	206.5	200.1	166.3	163.1
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)