

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: P318217

Luminaire Tested: **GLEON-SA3D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318217
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-SA3D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17088 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

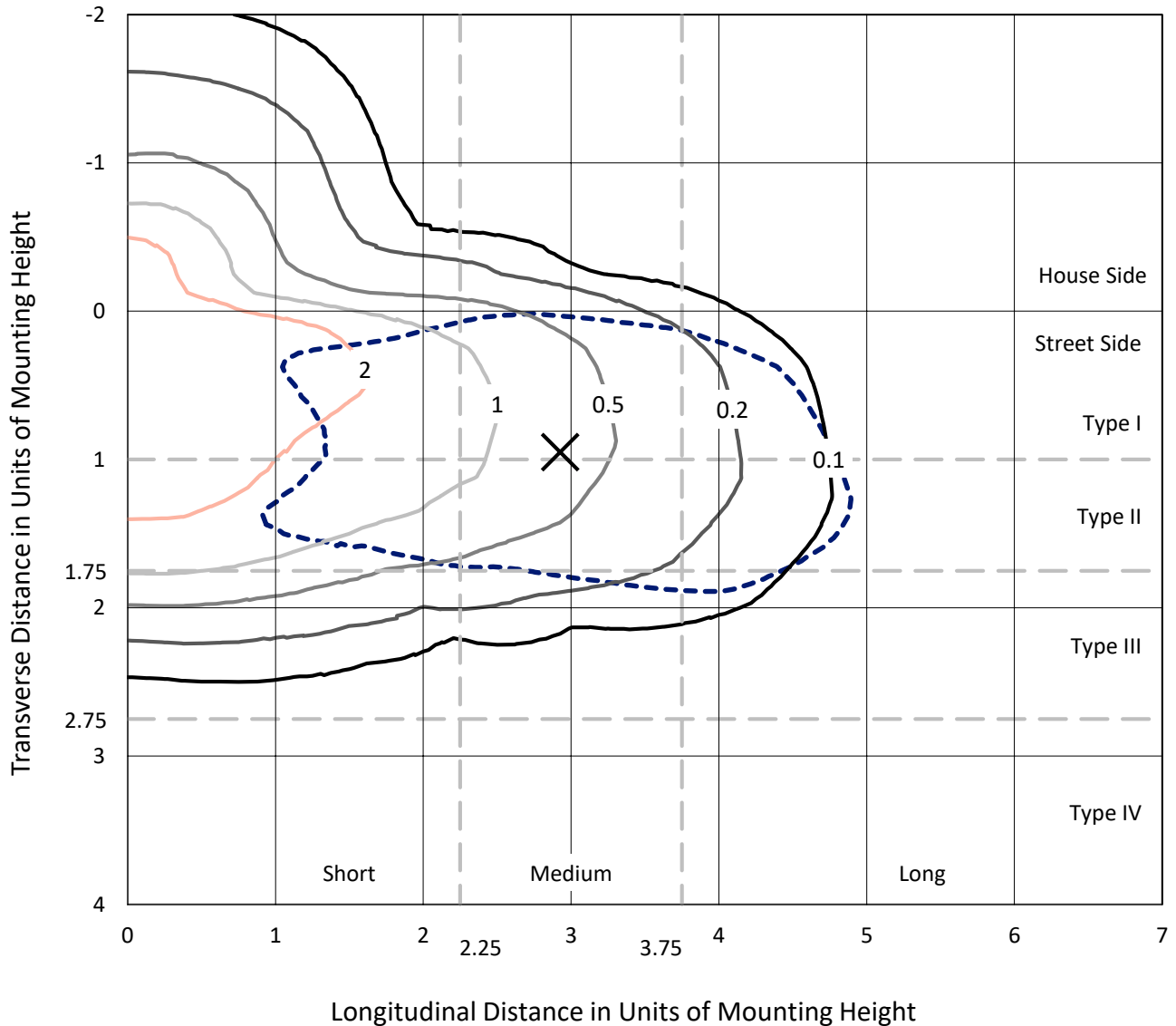
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

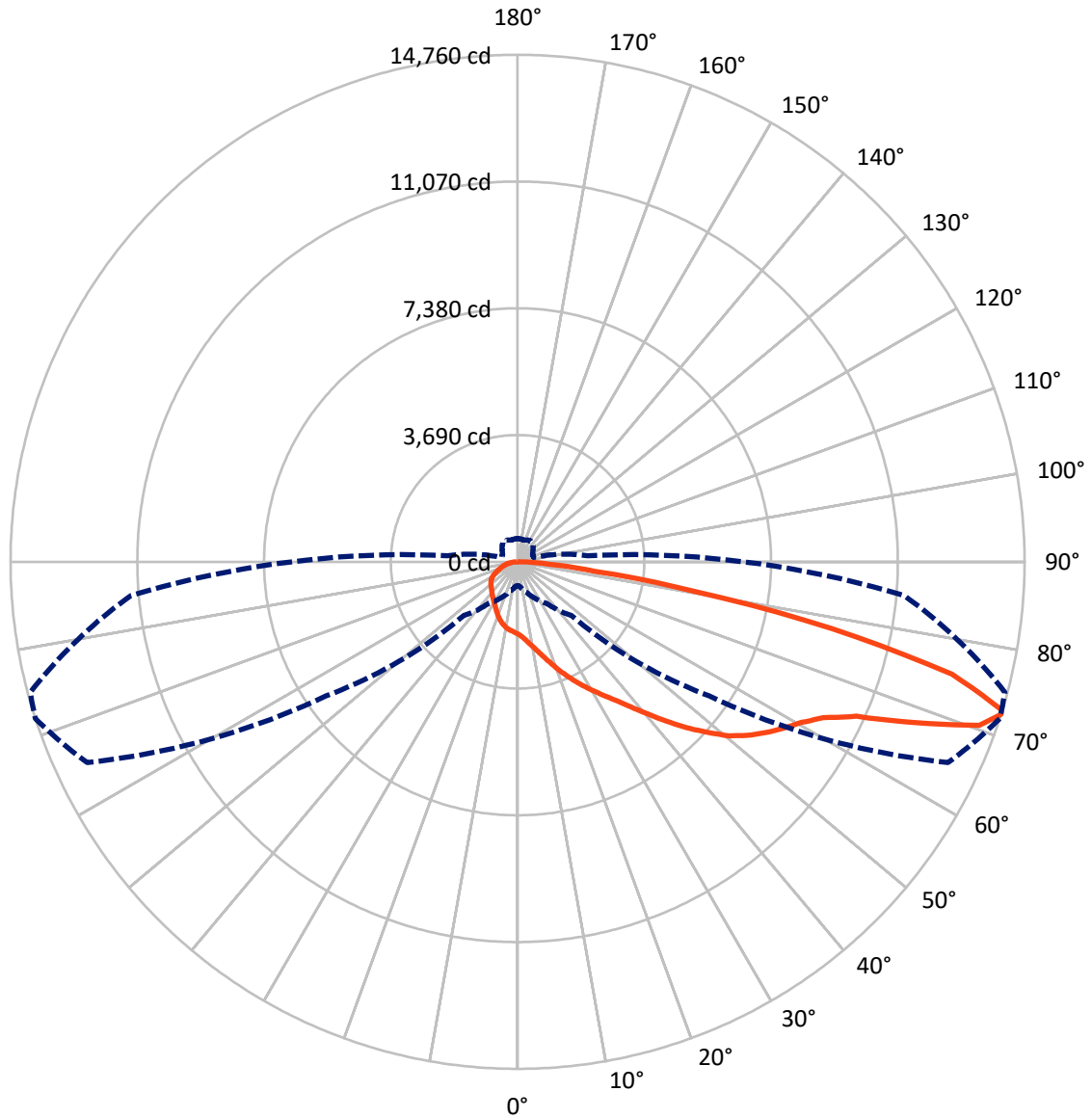
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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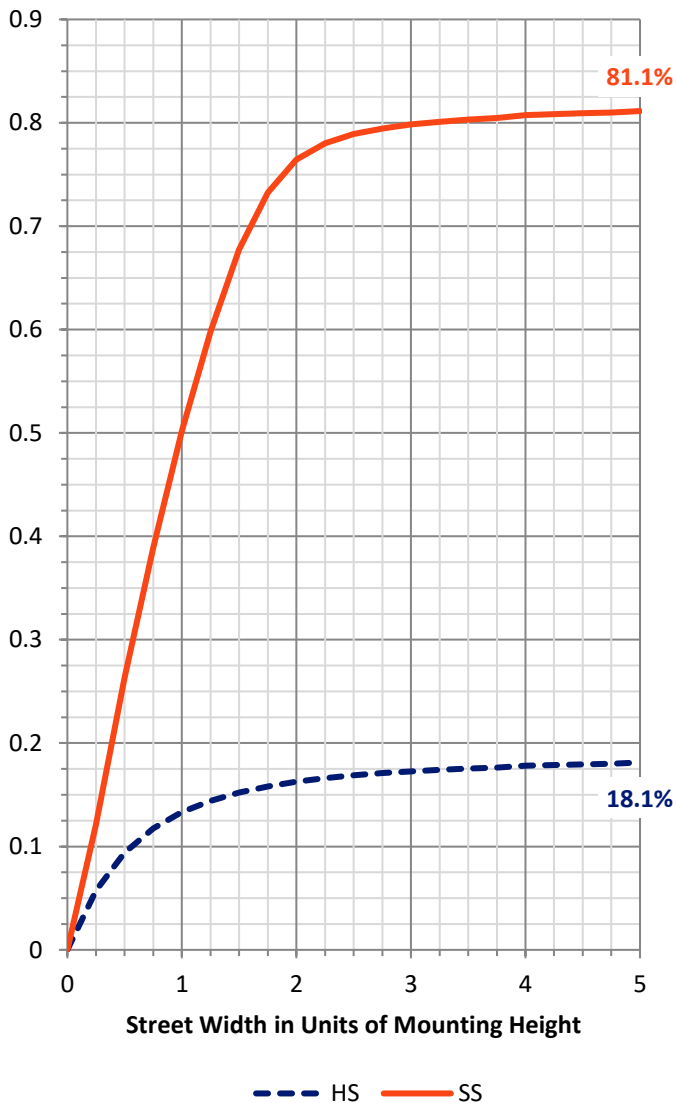
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3169.9	0.0	3169.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13918.1	0.0	13918.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	17088.0	0.0	17088.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	1.2
10°-20°	680.7	4.0
20°-30°	1192.9	7.0
30°-40°	1768.6	10.4
40°-50°	2586.8	15.1
50°-60°	3559.4	20.8
60°-70°	3962.6	23.2
70°-80°	2685.1	15.7
80°-90°	441.3	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°	17088.0	100.0
0°-180°	17088.0	100.0

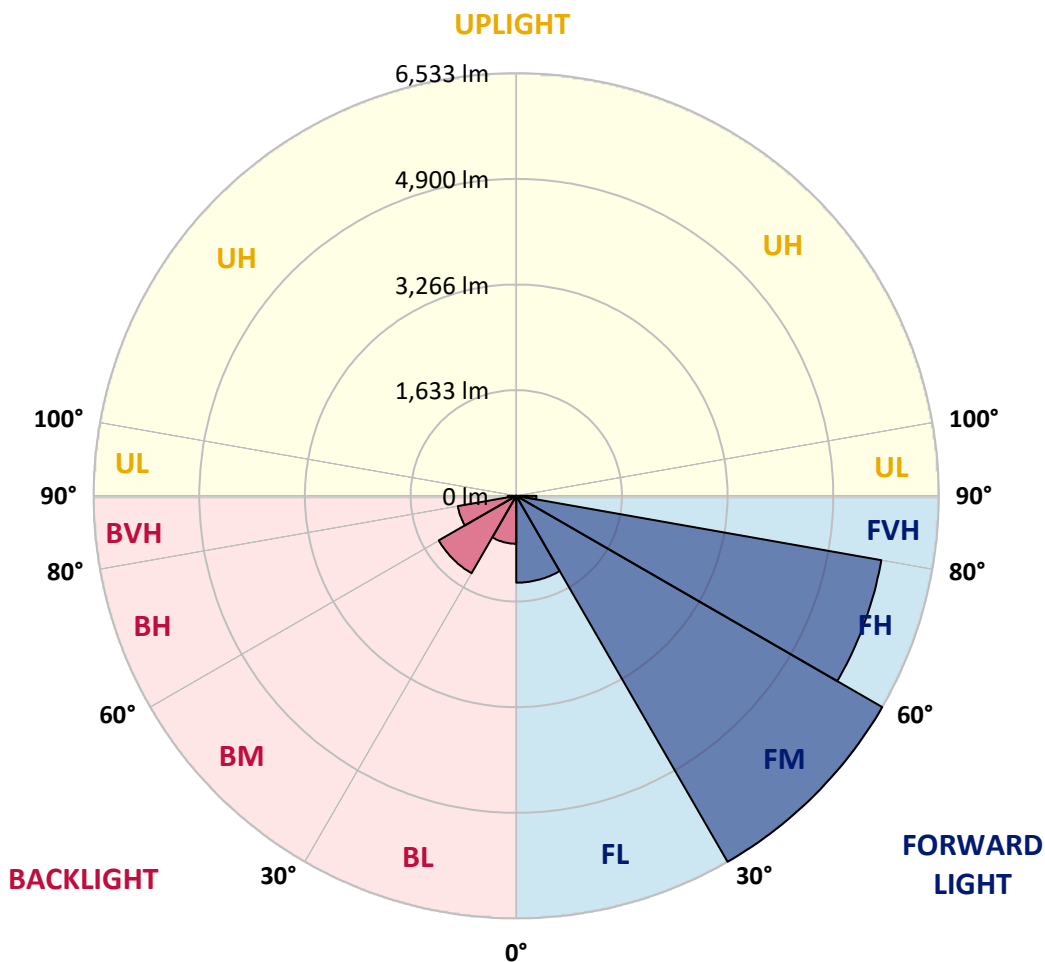


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1343.2	7.9			
FM (30°-60°)	6533.0	38.2			
FH (60°-80°)	5730.6	33.5			G3/7500
FVH (80°-90°)	311.3	1.8			G3/500
BL (0°-30°)	741.0	4.3	B2/1000		
BM (30°-60°)	1381.8	8.1	B2/2500		
BH (60°-80°)	917.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	130.0	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°	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3
2.5°	2322.3	2318.8	2306.4	2306.4	2282.9	2262.9	2225.2	2199.9	2169.9	2159.3	2124.0
5°	2547.1	2548.3	2533.0	2522.4	2487.7	2445.3	2381.2	2322.9	2264.7	2241.1	2168.8
7.5°	2736.0	2733.6	2729.5	2720.7	2688.3	2644.8	2558.3	2471.8	2385.9	2350.6	2225.8
10°	2857.2	2862.5	2866.0	2870.1	2856.6	2825.4	2743.6	2638.3	2525.9	2477.7	2294.1
12.5°	2918.3	2927.8	2944.2	2972.5	2994.8	2991.3	2931.9	2820.1	2686.5	2625.9	2379.4
15°	2954.2	2966.6	2992.5	3043.1	3106.0	3141.9	3126.0	3024.8	2876.0	2801.3	2483.5
17.5°	2976.6	2986.6	3026.6	3094.3	3187.8	3283.1	3324.9	3240.2	3090.2	3004.8	2603.0
20°	2991.9	2999.5	3049.6	3129.0	3250.2	3402.0	3518.5	3497.3	3326.1	3215.5	2727.7
22.5°	3026.0	3032.5	3080.2	3160.2	3294.3	3490.3	3705.0	3736.8	3575.0	3449.7	2861.3
25°	3121.3	3121.3	3161.3	3217.2	3343.2	3566.7	3862.7	4003.3	3829.2	3683.2	2984.8
27.5°	3303.1	3301.4	3316.1	3335.5	3430.8	3644.4	4003.3	4238.7	4092.7	3933.3	3104.9
30°	3518.5	3530.3	3532.0	3522.6	3567.3	3741.5	4133.3	4487.0	4358.1	4186.3	3227.8
32.5°	3795.6	3803.3	3794.4	3763.3	3756.8	3879.2	4261.0	4747.0	4645.2	4450.5	3340.2
35°	4147.5	4132.8	4105.1	4041.6	3981.0	4063.3	4406.9	5007.1	4967.7	4770.0	3495.0
37.5°	4524.6	4525.2	4491.1	4346.9	4263.4	4298.7	4608.2	5301.9	5357.8	5150.1	3693.2
40°	4827.0	4842.9	4864.1	4674.7	4566.4	4615.2	4864.1	5643.7	5819.0	5600.8	3951.5
42.5°	5038.3	5056.5	5116.5	4997.7	4885.3	4975.9	5165.4	6008.5	6336.8	6120.9	4254.0
45°	5261.9	5271.9	5314.2	5263.0	5191.2	5395.4	5504.9	6386.2	6884.6	6675.1	4592.3
47.5°	5497.2	5507.8	5551.3	5517.2	5479.6	5787.3	5859.1	6742.2	7409.4	7284.1	4953.5
50°	5787.9	5794.9	5836.1	5774.3	5786.1	6082.6	6175.6	7068.8	7959.6	7831.3	5316.0
52.5°	6184.4	6186.2	6243.3	6187.4	6132.1	6299.2	6448.0	7376.5	8390.8	8330.2	5678.4
55°	6495.1	6513.9	6701.0	6689.3	6657.5	6495.7	6675.7	7669.5	8775.6	8804.5	6063.2
57.5°	6296.8	6370.4	6749.3	7016.4	7276.5	6984.6	6983.4	7999.6	9133.4	9269.9	6486.3
60°	5514.9	5614.9	6173.2	6765.7	7579.5	7835.4	7622.4	8402.6	9494.6	9731.2	7016.4
62.5°	3938.6	4103.3	4860.0	5806.1	7164.1	8399.1	8922.7	9042.2	9985.9	10265.4	7705.4
65°	1991.1	2115.8	2750.1	3889.8	5723.7	8030.8	10336.0	10442.5	10839.7	11088.0	8766.2
67.5°	1209.7	1256.8	1566.3	2163.5	3509.1	6255.6	10797.3	12776.6	12491.8	12623.6	10278.9
70°	891.4	926.1	1119.1	1436.8	2018.1	3670.9	9381.7	14442.3	14255.2	14240.5	11396.9
72°	694.3	719.6	890.2	1160.9	1475.6	2202.3	6799.9	13827.4	14760.0	14685.9	11294.5
72.5°	658.4	680.8	836.1	1092.6	1394.5	1996.4	6113.8	13412.6	14723.5	14690.0	11162.1
75°	518.4	534.2	619.0	844.9	1091.4	1132.6	3350.2	10394.3	13061.4	13604.4	10039.5
77.5°	428.9	431.3	476.0	614.9	850.8	800.8	1645.7	7211.7	9352.8	9950.0	7111.7
80°	349.5	352.4	373.6	431.3	643.7	592.5	781.4	4146.9	5236.6	5243.0	3382.0
82.5°	278.3	278.9	302.4	315.4	462.5	423.6	447.8	1946.9	2288.2	2201.1	1215.6
85°	195.9	191.8	295.4	258.9	302.4	271.8	247.1	770.8	946.1	904.9	380.7
87.5°	65.3	67.7	131.2	167.7	176.5	154.2	110.0	295.4	357.1	354.2	120.6
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°	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3	2102.3
2.5°	2112.9	2094.0	2066.4	2035.8	2011.7	1986.9	1968.7	1959.3	1948.7	1939.9	1950.5
5°	2135.2	2099.9	2041.1	1983.4	1941.1	1903.4	1876.3	1862.2	1849.3	1840.4	1841.6
7.5°	2171.7	2114.6	2015.8	1931.6	1872.8	1832.2	1804.6	1795.1	1786.9	1784.5	1787.5
10°	2210.5	2126.4	1982.2	1870.4	1803.4	1769.8	1757.5	1764.0	1769.8	1775.1	1781.0
12.5°	2254.7	2137.0	1933.4	1798.7	1741.6	1728.7	1741.0	1769.2	1789.8	1802.2	1809.8
15°	2312.3	2146.4	1876.9	1726.9	1688.6	1703.4	1745.1	1794.0	1829.9	1852.8	1856.3
17.5°	2365.3	2145.8	1804.6	1654.5	1645.7	1688.6	1751.6	1820.4	1868.7	1901.0	1907.5
20°	2420.0	2129.9	1720.4	1583.9	1602.1	1672.8	1754.5	1837.5	1895.7	1933.4	1942.2
22.5°	2471.2	2102.3	1628.0	1519.8	1565.7	1651.6	1743.4	1827.5	1885.7	1916.3	1925.8
25°	2505.9	2054.0	1534.5	1465.6	1533.3	1625.7	1706.9	1774.5	1818.1	1833.4	1835.7
27.5°	2523.5	1991.1	1446.2	1418.6	1499.8	1583.3	1639.2	1672.8	1685.1	1683.9	1681.6
30°	2525.9	1908.1	1370.3	1380.3	1460.9	1521.0	1547.4	1541.0	1525.1	1498.0	1500.4
32.5°	2518.3	1814.6	1306.8	1343.9	1411.5	1445.1	1446.2	1415.0	1372.7	1329.7	1318.0
35°	2520.6	1722.8	1250.9	1302.7	1351.5	1366.2	1352.7	1306.8	1249.1	1193.8	1182.0
37.5°	2546.5	1642.7	1202.6	1255.0	1285.0	1288.5	1269.1	1220.9	1178.5	1124.4	1119.7
40°	2608.3	1585.7	1156.7	1201.5	1218.5	1220.3	1192.6	1158.5	1162.0	1133.2	1132.6
42.5°	2719.5	1561.0	1116.2	1145.6	1156.2	1159.7	1138.5	1116.7	1147.3	1128.5	1122.0
45°	2863.0	1566.8	1082.0	1090.9	1110.3	1126.7	1113.8	1087.3	1099.1	1017.3	990.2
47.5°	3029.0	1604.5	1055.0	1043.8	1077.3	1108.5	1088.5	1048.5	1006.7	925.5	910.2
50°	3223.1	1662.8	1030.2	997.3	1041.4	1083.8	1063.8	1006.7	943.8	904.3	899.0
52.5°	3425.5	1733.9	1005.5	946.1	996.1	1065.0	1055.0	997.3	919.6	880.8	873.7
55°	3655.0	1805.7	974.4	886.7	947.3	1056.1	1050.8	963.2	901.4	879.6	874.3
57.5°	3940.4	1887.5	933.2	824.9	901.4	1024.4	1007.9	942.6	882.6	866.1	864.3
60°	4312.2	2008.1	873.7	759.0	845.5	975.5	972.0	912.6	852.6	840.8	838.4
62.5°	4870.0	2207.6	792.0	693.1	783.1	892.6	924.9	872.0	820.8	820.2	821.4
65°	5734.9	2507.7	703.1	635.4	720.2	822.6	870.2	830.2	788.4	800.2	802.0
67.5°	6737.5	2756.5	616.0	579.0	656.0	756.1	820.8	788.4	745.5	776.1	776.7
70°	7071.1	2534.1	539.5	523.1	589.6	691.9	767.2	742.5	699.0	729.6	726.6
72°	6580.4	2045.8	490.1	480.7	539.5	639.0	719.6	699.6	656.6	677.2	669.6
72.5°	6425.7	1950.5	477.8	470.1	526.0	625.4	707.2	689.0	646.0	663.7	656.6
75°	5732.0	1693.9	410.7	412.5	458.9	559.5	637.8	631.9	587.8	589.6	587.2
77.5°	4157.5	1242.1	346.0	357.7	390.7	491.9	567.8	564.3	516.0	507.2	505.4
80°	1929.3	633.7	281.8	287.1	321.3	411.3	484.2	479.5	440.7	429.5	423.0
82.5°	660.7	301.2	211.8	215.3	248.9	331.3	420.1	417.2	384.8	363.0	349.5
85°	235.9	150.0	148.3	144.7	177.7	260.7	366.0	350.1	302.4	257.7	256.5
87.5°	76.5	64.1	76.5	75.9	103.6	176.5	265.9	226.5	219.5	182.4	178.9
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)