

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: P322368

Luminaire Tested: **GLEON-SA4C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15285 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

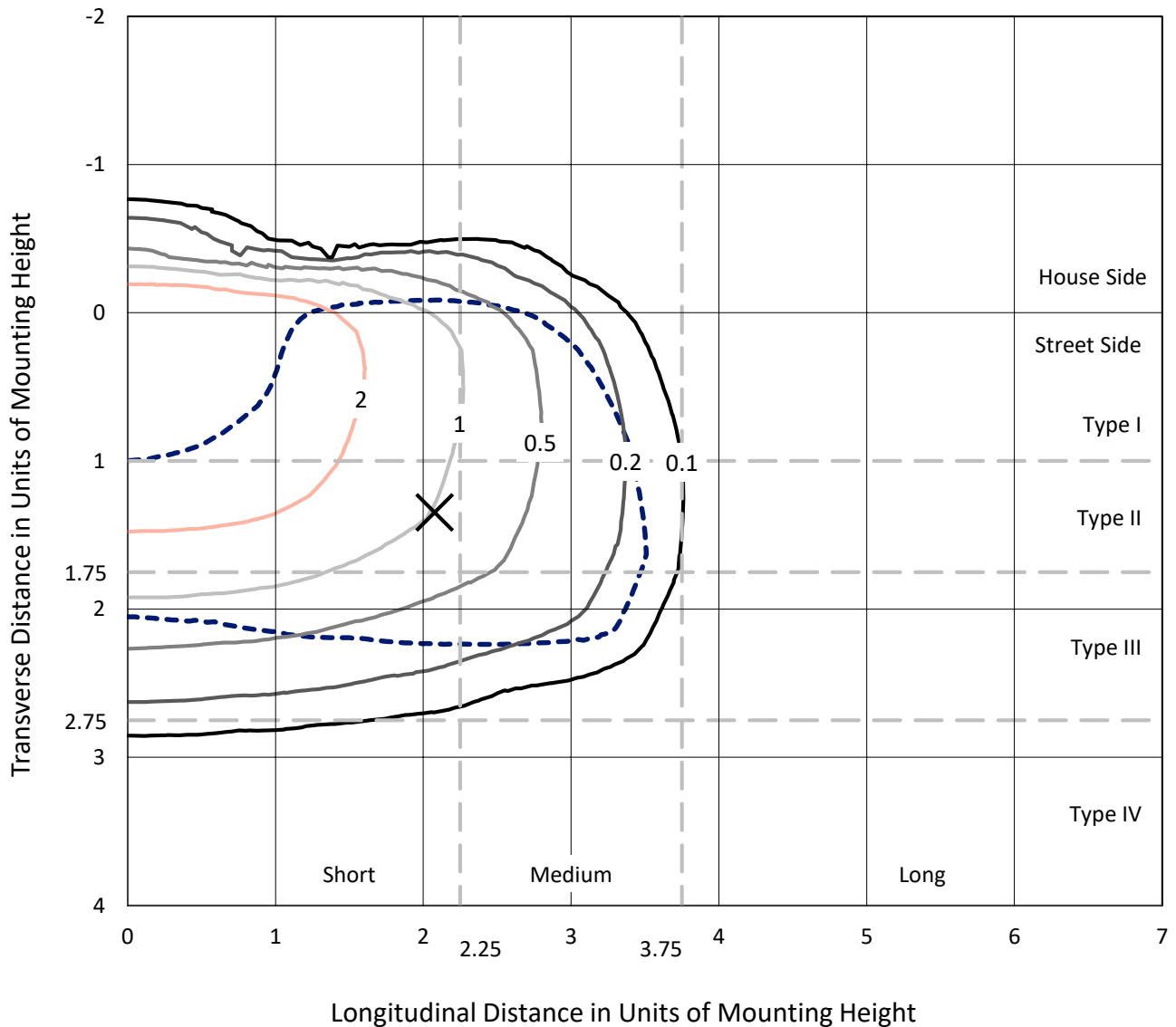
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

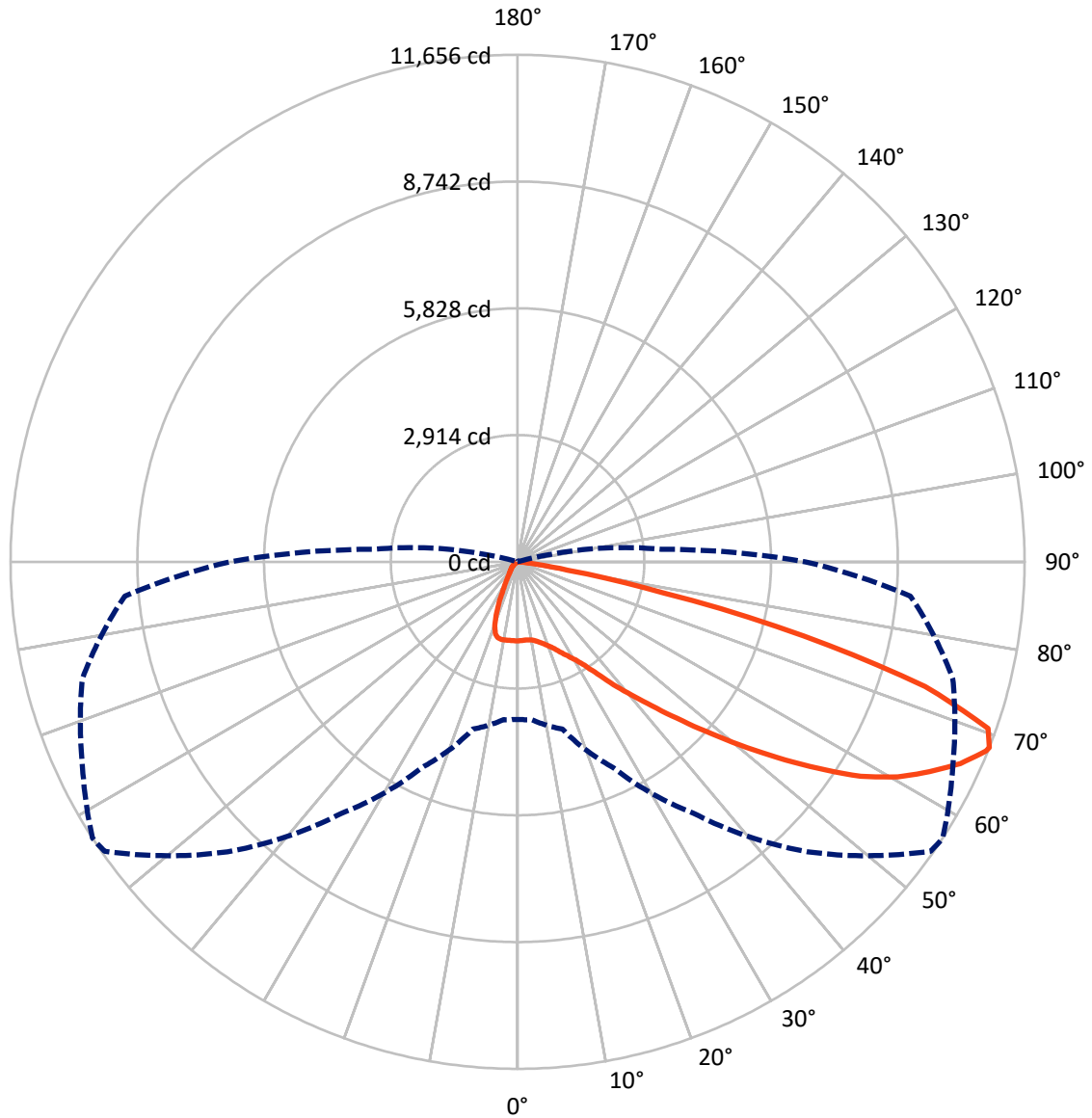
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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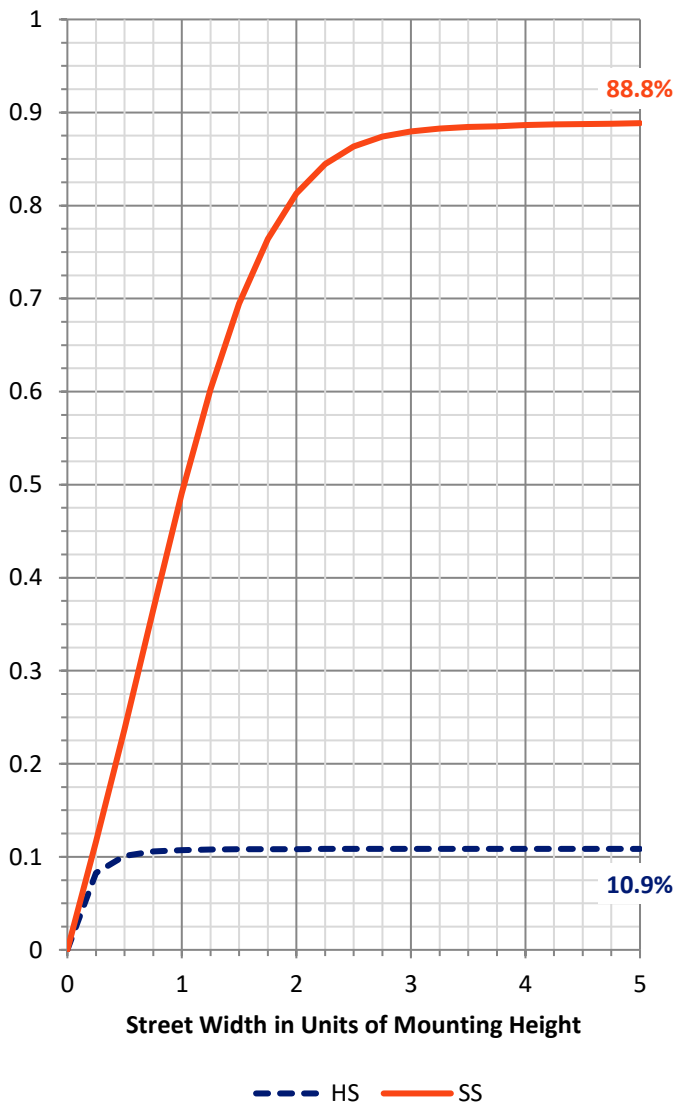
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.1	0.0	1676.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	13608.9	0.0	13608.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	15285.0	0.0	15285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	1.1
10°-20°	471.0	3.1
20°-30°	812.5	5.3
30°-40°	1402.4	9.2
40°-50°	2398.9	15.7
50°-60°	3837.9	25.1
60°-70°	4434.3	29.0
70°-80°	1694.4	11.1
80°-90°	63.5	0.4
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°	15285.0	100.0
0°-180°	15285.0	100.0

Coefficient of Utilization



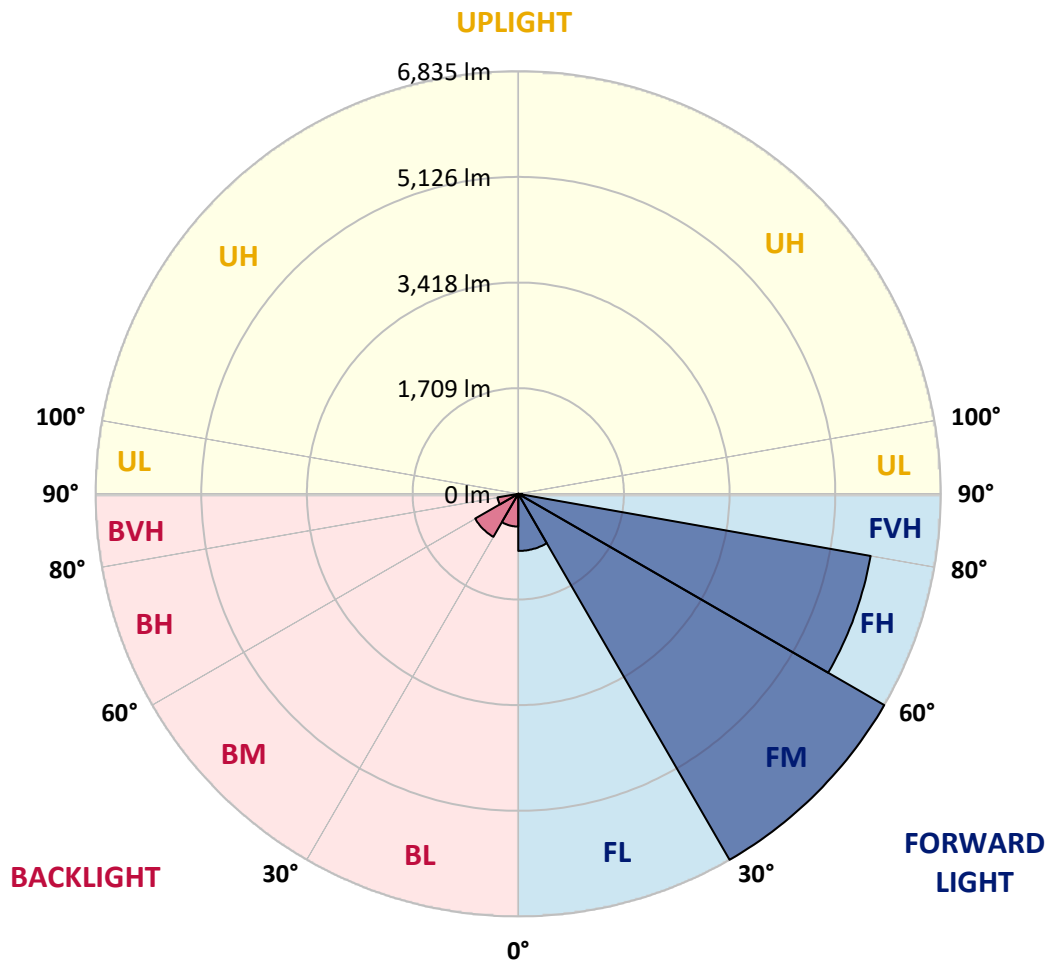
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.8	6.0			
FM (30°-60°)	6835.3	44.7			
FH (60°-80°)	5787.4	37.9			G3/7500
FVH (80°-90°)	62.4	0.4			G1/100
BL (0°-30°)	529.7	3.5	B2/1000		
BM (30°-60°)	803.9	5.3	B1/1000		
BH (60°-80°)	341.3	2.2	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3
2.5°	1773.6	1781.6	1787.4	1791.0	1795.3	1804.7	1807.6	1811.9	1814.1	1814.1	1819.2
5°	1703.5	1712.2	1724.5	1734.6	1754.8	1780.8	1799.6	1806.9	1819.9	1831.4	1837.9
7.5°	1638.5	1648.6	1663.0	1686.9	1721.6	1763.5	1802.5	1812.6	1837.9	1862.5	1874.8
10°	1596.5	1604.5	1623.3	1657.3	1702.8	1761.3	1816.3	1828.5	1871.9	1913.1	1936.2
12.5°	1582.1	1589.3	1608.8	1647.1	1703.5	1772.2	1848.1	1866.1	1929.7	1989.7	2022.2
15°	1603.1	1604.5	1625.5	1661.6	1717.2	1798.9	1900.8	1922.5	2002.7	2080.8	2121.3
17.5°	1684.0	1677.5	1688.3	1704.2	1748.3	1834.3	1956.5	1989.0	2096.0	2187.8	2226.1
20°	1886.4	1886.4	1861.8	1818.4	1819.2	1889.3	2031.6	2068.5	2199.3	2305.6	2340.3
22.5°	2232.6	2226.1	2176.9	2070.7	1973.1	1983.9	2123.4	2171.1	2323.6	2437.1	2448.7
25°	2648.9	2640.9	2565.0	2415.4	2246.3	2137.2	2247.7	2302.7	2471.8	2572.3	2548.4
27.5°	3089.7	3083.2	3008.1	2822.3	2581.6	2381.4	2395.9	2447.9	2622.8	2721.9	2646.0
30°	3516.9	3519.1	3444.6	3253.8	2981.3	2693.0	2583.8	2614.2	2769.6	2870.0	2761.6
32.5°	3923.1	3926.0	3861.6	3648.4	3394.0	3055.0	2844.0	2836.1	2940.1	3039.1	2914.8
35°	4285.2	4292.4	4248.3	4082.8	3813.2	3458.3	3181.5	3162.7	3182.3	3294.3	3149.7
37.5°	4634.2	4638.6	4605.3	4465.8	4240.4	3901.4	3607.9	3581.2	3539.3	3625.3	3459.8
40°	5016.6	5005.7	4967.4	4841.0	4647.3	4390.7	4066.2	4019.9	3946.9	4023.5	3867.4
42.5°	5372.2	5359.9	5366.4	5223.3	5059.9	4893.7	4600.3	4520.8	4478.1	4566.3	4367.6
45°	5816.7	5810.2	5831.8	5707.5	5575.3	5454.6	5212.4	5125.7	5106.9	5210.3	4972.5
47.5°	6255.4	6271.3	6338.5	6285.7	6232.2	6126.0	5860.7	5821.7	5833.3	5958.3	5610.7
50°	6621.1	6639.9	6824.2	6884.9	6962.2	6900.1	6634.1	6610.2	6655.8	6768.5	6297.3
52.5°	6885.6	6923.9	7153.0	7432.7	7714.6	7756.5	7491.3	7469.6	7531.0	7548.4	6827.8
55°	7069.2	7103.1	7362.6	7874.3	8448.2	8628.9	8464.1	8380.2	8368.7	8197.4	7385.7
57.5°	7101.7	7098.1	7471.0	8159.8	9023.5	9489.7	9385.6	9303.2	9066.1	8797.3	8025.4
60°	6918.1	6939.1	7372.0	8258.8	9384.9	10140.9	10148.8	10041.8	9672.5	9380.5	8645.5
62.5°	6352.9	6438.2	6875.5	7999.4	9380.5	10403.2	10708.2	10626.5	10184.9	9858.3	9274.3
65°	5436.5	5466.9	5883.9	7110.4	8746.7	10293.4	11212.0	11181.6	10646.8	10322.3	9597.3
67.5°	3970.0	3904.3	4342.3	5599.1	7405.3	9653.0	11573.3	11611.6	11003.1	10417.7	9253.3
68°	3623.1	3642.6	3983.8	5225.5	7054.0	9426.8	11597.2	11655.7	11038.5	10355.5	9065.4
70°	2159.6	2197.1	2501.4	3597.8	5366.4	8146.8	11339.9	11473.6	10827.5	9714.4	7841.1
72.5°	551.5	596.3	883.9	1610.3	3065.2	5740.0	9572.8	9799.0	9400.8	7880.8	5293.4
75°	226.9	238.5	315.8	530.5	1141.9	2586.0	6309.6	6793.8	6517.0	4718.1	2392.3
77.5°	156.8	164.8	203.1	294.2	494.4	876.7	3093.4	3443.2	3102.0	1610.3	521.8
80°	112.7	119.3	145.3	195.9	284.0	312.9	1008.2	1165.8	925.8	353.4	129.4
82.5°	67.2	72.3	108.4	139.5	172.7	149.6	250.8	284.8	268.1	175.6	57.8
85°	33.2	39.0	73.0	99.7	93.2	62.9	76.6	85.3	105.5	107.0	31.1
87.5°	2.2	4.3	42.6	60.0	26.0	14.5	22.4	27.5	37.6	52.8	13.0
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°	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3
2.5°	1821.3	1822.0	1817.0	1814.8	1816.3	1807.6	1804.0	1805.4	1805.4	1807.6	1804.0
5°	1839.4	1839.4	1830.7	1819.2	1812.6	1796.0	1785.2	1782.3	1780.1	1778.7	1775.8
7.5°	1878.4	1874.1	1858.9	1833.6	1811.9	1775.8	1748.3	1733.9	1726.6	1723.7	1721.6
10°	1941.3	1933.3	1908.0	1861.1	1811.2	1746.9	1686.9	1644.2	1608.8	1594.4	1585.7
12.5°	2025.9	2014.3	1971.7	1893.6	1806.1	1687.6	1557.5	1432.5	1316.1	1268.4	1244.6
15°	2123.4	2106.8	2039.6	1921.1	1776.5	1553.9	1271.3	1052.3	891.1	830.4	804.4
17.5°	2222.4	2200.8	2098.9	1938.4	1687.6	1277.1	891.9	673.6	565.9	537.0	526.9
20°	2322.2	2290.4	2150.2	1925.4	1486.7	920.8	588.3	492.2	461.1	452.4	449.5
22.5°	2416.9	2367.7	2196.4	1874.8	1177.4	617.9	465.4	435.1	425.0	419.9	418.5
25°	2499.3	2430.6	2236.9	1718.7	833.3	466.9	419.2	409.1	396.1	386.7	387.4
27.5°	2576.6	2493.5	2261.5	1461.4	555.8	399.0	388.1	374.4	350.5	336.8	336.8
30°	2669.8	2577.3	2279.5	1124.6	409.1	352.7	344.0	323.1	290.5	272.5	272.5
32.5°	2810.0	2704.5	2268.0	789.2	339.0	310.1	289.8	260.9	225.5	208.2	207.4
35°	3024.7	2901.1	2185.6	517.5	299.2	269.6	237.1	201.6	170.6	156.1	155.4
37.5°	3313.8	3164.2	2000.6	370.0	268.1	232.0	193.0	153.9	130.8	121.4	120.7
40°	3688.9	3469.9	1736.0	299.9	239.2	195.9	148.9	119.3	103.4	96.1	96.8
42.5°	4139.2	3797.3	1418.8	258.7	211.0	161.2	116.4	94.0	83.8	78.8	77.3
45°	4639.3	4120.4	1086.3	230.6	182.9	130.1	91.1	74.4	66.5	63.6	63.6
47.5°	5189.3	4434.8	795.0	206.0	152.5	100.5	73.0	60.7	54.2	52.0	51.3
50°	5688.7	4653.0	573.1	180.0	125.0	79.5	59.3	50.6	46.3	43.4	43.4
52.5°	6105.0	4721.7	422.1	151.8	101.2	63.6	49.1	43.4	39.0	36.9	36.9
55°	6471.5	4693.5	313.7	125.0	81.7	52.0	41.9	36.9	33.2	31.1	31.1
57.5°	6822.7	4602.4	234.2	101.9	65.8	41.9	35.4	31.1	27.5	26.0	26.0
60°	7109.7	4450.7	174.2	82.4	52.8	34.0	29.6	25.3	22.4	20.2	20.2
62.5°	7342.4	4283.0	127.9	67.9	41.9	26.7	23.1	21.0	16.6	14.5	14.5
65°	7343.8	4004.7	96.1	56.4	32.5	21.0	17.3	16.6	10.8	8.7	8.0
67.5°	6812.6	3452.6	73.7	48.4	25.3	15.9	13.0	13.7	5.8	3.6	2.9
68°	6619.6	3312.3	69.4	47.7	23.9	15.2	12.3	13.7	5.1	2.9	2.2
70°	5581.0	2635.1	55.7	46.3	21.0	11.6	10.1	13.7	4.3	2.2	1.4
72.5°	3569.6	1529.3	41.2	36.9	15.9	8.7	6.5	12.3	4.3	1.4	0.7
75°	1519.2	474.1	28.2	26.0	9.4	6.5	4.3	8.0	2.9	0.7	0.0
77.5°	320.2	107.0	16.6	15.9	6.5	4.3	2.9	2.2	0.7	0.0	0.0
80°	82.4	31.1	8.7	8.0	3.6	2.2	1.4	0.0	0.0	0.0	0.0
82.5°	26.0	12.3	5.1	3.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)