

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: P382802

Luminaire Tested: **GLEON-SA1D-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6465.9 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

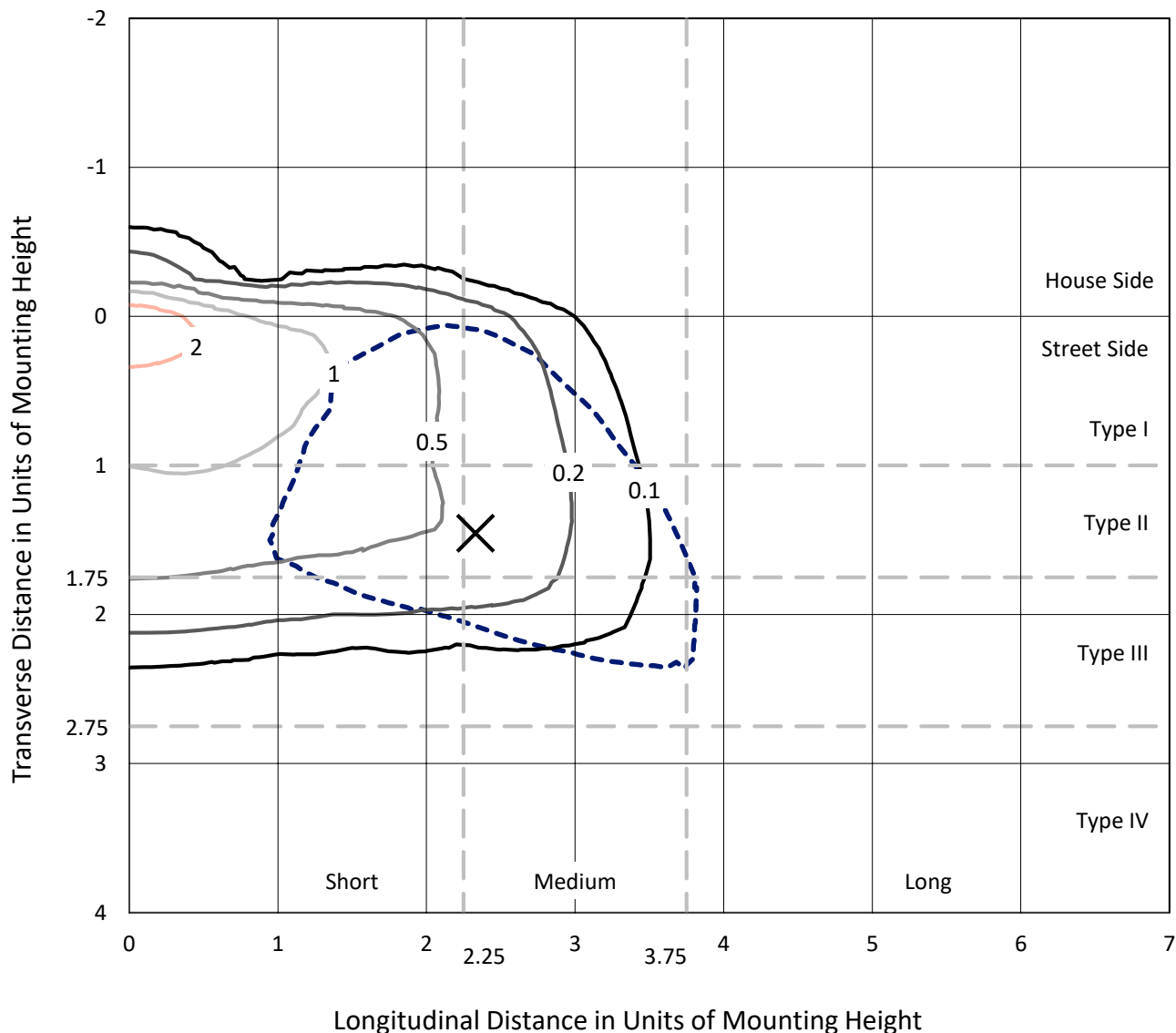
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

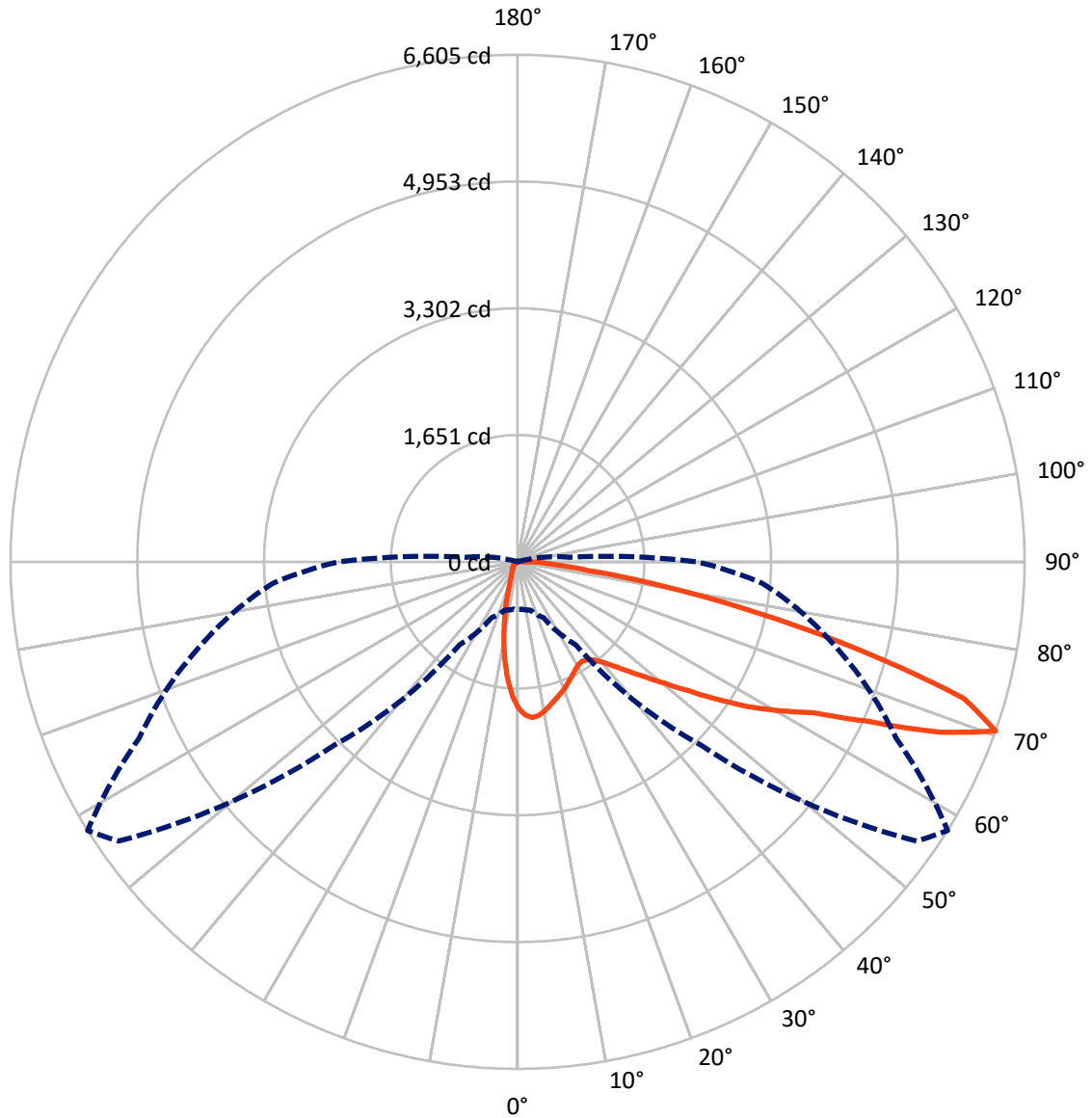
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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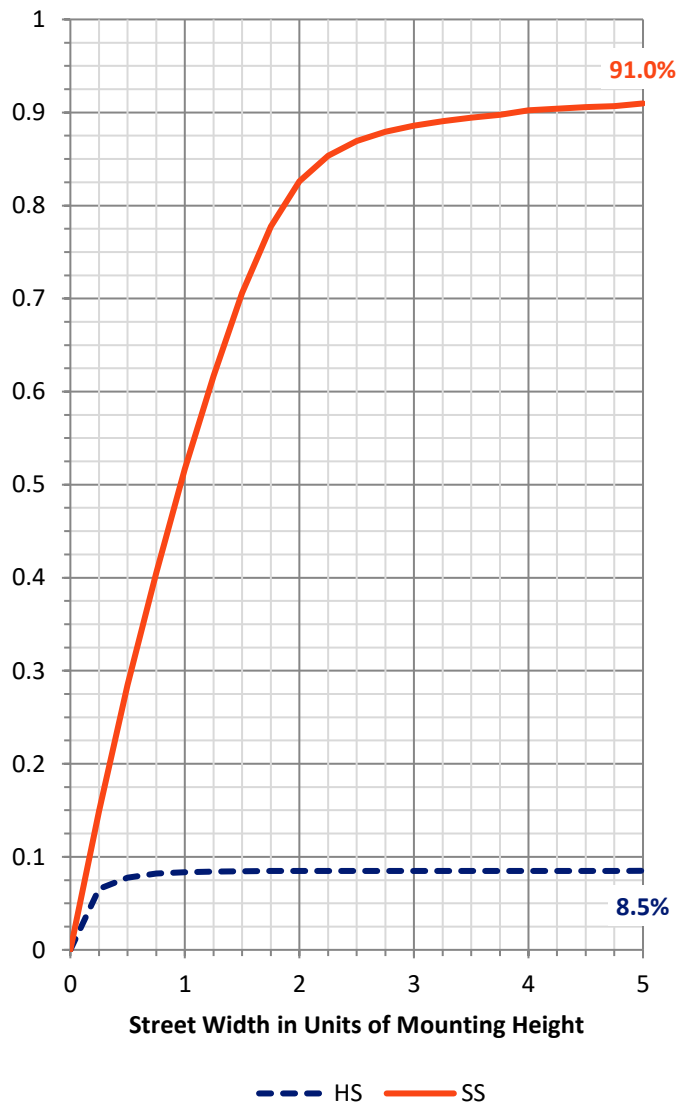
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	553.3	0.0	553.3
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	5912.5	0.0	5912.5
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	6465.9	0.0	6465.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	2.4
10°-20°	327.8	5.1
20°-30°	430.9	6.7
30°-40°	570.7	8.8
40°-50°	853.1	13.2
50°-60°	1366.6	21.1
60°-70°	1722.6	26.6
70°-80°	929.2	14.4
80°-90°	108.8	1.7
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°	6465.9	100.0
0°-180°	6465.9	100.0

**Coefficient of Utilization**

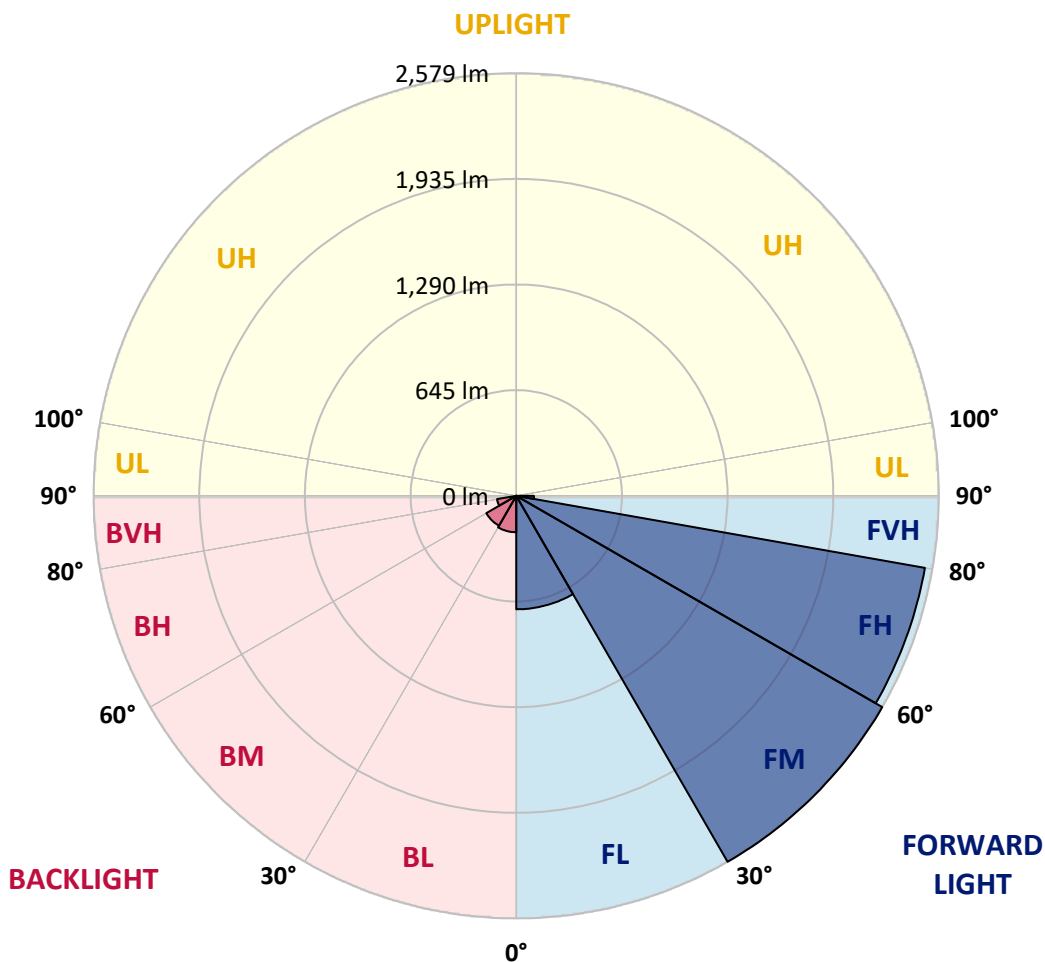


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.6	10.7			
FM (30°-60°)	2579.3	39.9			
FH (60°-80°)	2532.8	39.2			G2/5000
FVH (80°-90°)	107.8	1.7			G2/225
BL (0°-30°)	222.3	3.4	B1/500		
BM (30°-60°)	211.1	3.3	B0/220		
BH (60°-80°)	119.0	1.8	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0
2.5°	2068.3	2063.3	2061.3	2058.2	2045.8	2033.7	2009.7	2003.0	1987.9	1952.2	1914.3
5°	2070.0	2069.7	2075.3	2074.0	2069.7	2064.0	2046.8	2037.9	2012.4	1961.4	1892.0
7.5°	1970.2	1975.3	1987.9	1998.2	2010.0	2025.4	2027.5	2018.8	1997.9	1942.7	1850.8
10°	1836.4	1844.4	1862.2	1882.3	1913.2	1943.9	1971.2	1970.2	1963.0	1908.6	1801.3
12.5°	1702.1	1711.5	1732.0	1761.8	1805.7	1855.6	1904.6	1911.3	1923.5	1878.0	1755.7
15°	1584.7	1592.8	1612.9	1649.5	1703.8	1771.0	1842.8	1855.2	1886.3	1854.1	1717.5
17.5°	1484.9	1490.0	1504.8	1545.4	1608.3	1689.8	1783.1	1807.3	1853.8	1835.2	1684.4
20°	1415.3	1416.0	1425.7	1454.2	1517.2	1608.3	1721.2	1756.0	1819.4	1819.1	1650.2
22.5°	1380.8	1378.2	1380.1	1396.5	1442.7	1530.6	1659.4	1700.5	1788.5	1805.4	1615.6
25°	1374.4	1372.3	1366.9	1369.0	1397.0	1462.6	1597.0	1644.6	1761.3	1797.0	1585.5
27.5°	1394.6	1396.8	1387.6	1377.9	1380.1	1418.5	1541.6	1596.8	1739.3	1797.0	1564.3
30°	1435.1	1436.3	1429.6	1416.9	1399.9	1406.2	1503.2	1558.3	1728.2	1809.4	1550.7
32.5°	1480.0	1486.0	1485.2	1475.0	1450.8	1425.7	1494.0	1544.3	1727.5	1836.8	1549.4
35°	1535.7	1542.5	1553.7	1551.6	1526.3	1485.2	1525.2	1564.8	1743.3	1882.0	1564.0
37.5°	1594.9	1605.1	1629.3	1640.8	1624.4	1577.9	1595.2	1623.4	1785.8	1955.1	1600.8
40°	1652.2	1663.7	1707.8	1753.3	1740.9	1693.0	1701.1	1723.6	1861.3	2060.3	1670.7
42.5°	1708.4	1725.5	1790.3	1865.1	1879.9	1841.7	1846.0	1864.0	1973.5	2205.0	1784.9
45°	1775.5	1794.9	1890.9	1983.1	2022.7	2006.0	2024.3	2036.1	2119.9	2396.1	1939.0
47.5°	1874.3	1896.5	2014.3	2119.5	2188.8	2199.6	2236.4	2244.2	2305.2	2618.7	2139.9
50°	2066.7	2072.9	2179.4	2274.8	2374.9	2439.4	2481.4	2487.2	2529.4	2862.0	2390.7
52.5°	2308.9	2313.0	2373.2	2437.2	2550.9	2682.7	2780.9	2789.1	2798.0	3099.2	2638.3
55°	2549.6	2549.1	2588.9	2626.5	2756.6	2948.1	3161.0	3166.1	3102.4	3324.2	2827.6
57.5°	2699.9	2714.4	2774.9	2823.3	3005.1	3250.5	3546.0	3564.8	3422.0	3490.9	3014.8
60°	2652.0	2659.0	2793.2	2972.3	3314.5	3680.5	3935.6	3940.4	3662.4	3657.3	3251.4
62.5°	2259.5	2263.3	2474.1	2843.2	3471.2	4238.1	4405.6	4326.8	3938.8	3888.3	3534.5
65°	1548.6	1573.1	1749.2	2205.4	3183.3	4587.9	5133.1	5002.7	4360.1	4221.1	3790.4
67.5°	912.0	906.9	994.0	1330.1	2338.0	4355.5	6053.4	5923.8	4934.7	4444.0	3715.4
70°	622.9	619.5	652.8	805.2	1319.8	3378.8	6343.0	6604.6	5442.0	4294.0	3197.5
72.5°	444.7	446.6	495.8	625.6	828.6	1968.6	5454.7	6073.9	5283.1	3743.3	2430.5
75°	301.9	307.0	377.5	513.3	726.4	1001.5	3870.8	4617.1	4302.1	2720.6	1397.0
77.5°	162.4	168.1	251.1	413.5	656.8	695.8	2489.9	3177.7	2702.3	1223.0	404.9
80°	67.7	71.0	117.5	300.6	567.6	611.1	1465.0	1926.9	1151.5	241.2	90.4
82.5°	29.3	30.9	48.9	179.3	424.2	516.0	775.7	927.1	349.0	53.0	45.5
85°	5.7	5.9	20.1	94.9	270.7	291.2	502.8	492.8	156.8	22.8	33.1
87.5°	0.0	0.0	4.8	29.8	79.6	158.6	306.8	303.0	53.2	11.0	12.4
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°	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0	1910.0
2.5°	1895.0	1876.4	1837.4	1789.2	1752.4	1711.8	1679.6	1638.7	1621.0	1621.7	1612.1
5°	1852.5	1814.3	1727.9	1619.1	1535.2	1448.6	1374.1	1300.0	1256.1	1241.8	1228.4
7.5°	1791.6	1731.2	1593.5	1425.7	1283.8	1145.1	1024.3	918.1	851.0	818.2	806.1
10°	1723.1	1638.1	1439.0	1217.9	1015.2	827.6	671.1	535.0	480.7	443.9	434.5
12.5°	1662.9	1547.9	1287.9	1004.8	764.1	537.7	388.5	303.8	267.0	252.4	250.0
15°	1606.2	1463.4	1142.4	811.7	529.1	331.0	247.0	218.4	209.7	207.3	207.3
17.5°	1552.7	1383.0	1000.2	621.6	350.1	232.0	204.6	198.1	195.4	195.2	195.4
20°	1496.7	1302.7	860.4	455.4	244.4	196.6	189.0	185.5	184.7	184.7	184.7
22.5°	1443.2	1222.3	724.3	325.3	196.0	179.3	175.6	173.2	172.3	172.1	171.5
25°	1391.9	1145.9	591.5	229.9	172.1	164.2	161.1	157.8	155.4	154.1	153.2
27.5°	1349.7	1077.9	467.8	184.4	155.4	148.7	144.7	139.8	133.9	131.2	130.1
30°	1316.1	1015.8	360.5	155.7	139.8	133.1	126.9	118.6	109.9	105.4	105.1
32.5°	1289.7	954.7	273.7	137.7	125.9	117.5	108.6	98.1	88.2	83.1	82.8
35°	1276.8	901.0	209.1	124.5	113.5	102.9	91.9	80.4	70.7	65.9	65.3
37.5°	1285.4	855.5	163.2	113.5	102.9	90.9	78.0	65.9	57.3	53.0	52.7
40°	1316.8	826.5	132.6	104.1	94.1	79.3	65.3	54.0	46.8	43.3	43.0
42.5°	1383.8	815.8	113.2	96.2	85.5	68.6	54.3	44.6	37.9	35.5	34.9
45°	1495.7	831.6	100.0	88.7	76.7	58.3	44.9	36.6	30.6	28.8	28.5
47.5°	1644.6	873.2	90.6	81.5	68.6	49.2	37.4	29.5	25.0	23.1	22.8
50°	1836.5	939.4	82.8	74.2	61.0	41.6	30.9	23.4	19.4	18.0	18.0
52.5°	2045.5	1018.2	75.8	67.4	53.5	34.7	25.0	18.0	15.4	13.7	13.7
55°	2218.1	1087.0	68.3	62.4	44.3	28.8	19.1	13.7	11.3	10.5	10.5
57.5°	2390.4	1160.4	59.7	53.5	35.5	23.4	14.5	10.2	8.3	7.8	7.8
60°	2613.8	1250.2	51.3	43.6	27.9	17.7	10.7	7.3	6.1	5.9	5.9
62.5°	2859.6	1302.9	43.8	34.9	21.8	13.1	7.8	4.8	4.6	4.6	4.3
65°	3009.9	1228.4	36.8	27.9	17.0	10.0	5.1	3.5	4.0	3.7	3.3
67.5°	2818.2	961.7	30.1	21.8	13.1	7.5	3.3	2.4	4.3	3.5	2.7
70°	2333.4	673.2	23.4	15.4	10.5	6.4	2.1	1.6	4.6	3.5	2.1
72.5°	1746.3	450.6	18.5	10.2	7.8	5.7	1.9	0.8	4.0	3.0	1.9
75°	954.2	181.5	14.8	6.4	4.8	4.0	1.3	0.6	2.7	2.1	1.3
77.5°	251.1	47.9	10.7	4.3	2.7	1.6	0.8	0.3	1.3	1.1	0.6
80°	64.0	18.5	7.0	3.0	1.9	0.8	0.0	0.0	0.3	0.0	0.0
82.5°	34.2	7.8	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.8	5.1	2.4	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	1.6	0.8	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)