

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: P382828

Luminaire Tested: **GLEON-SA2A-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7357.4 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

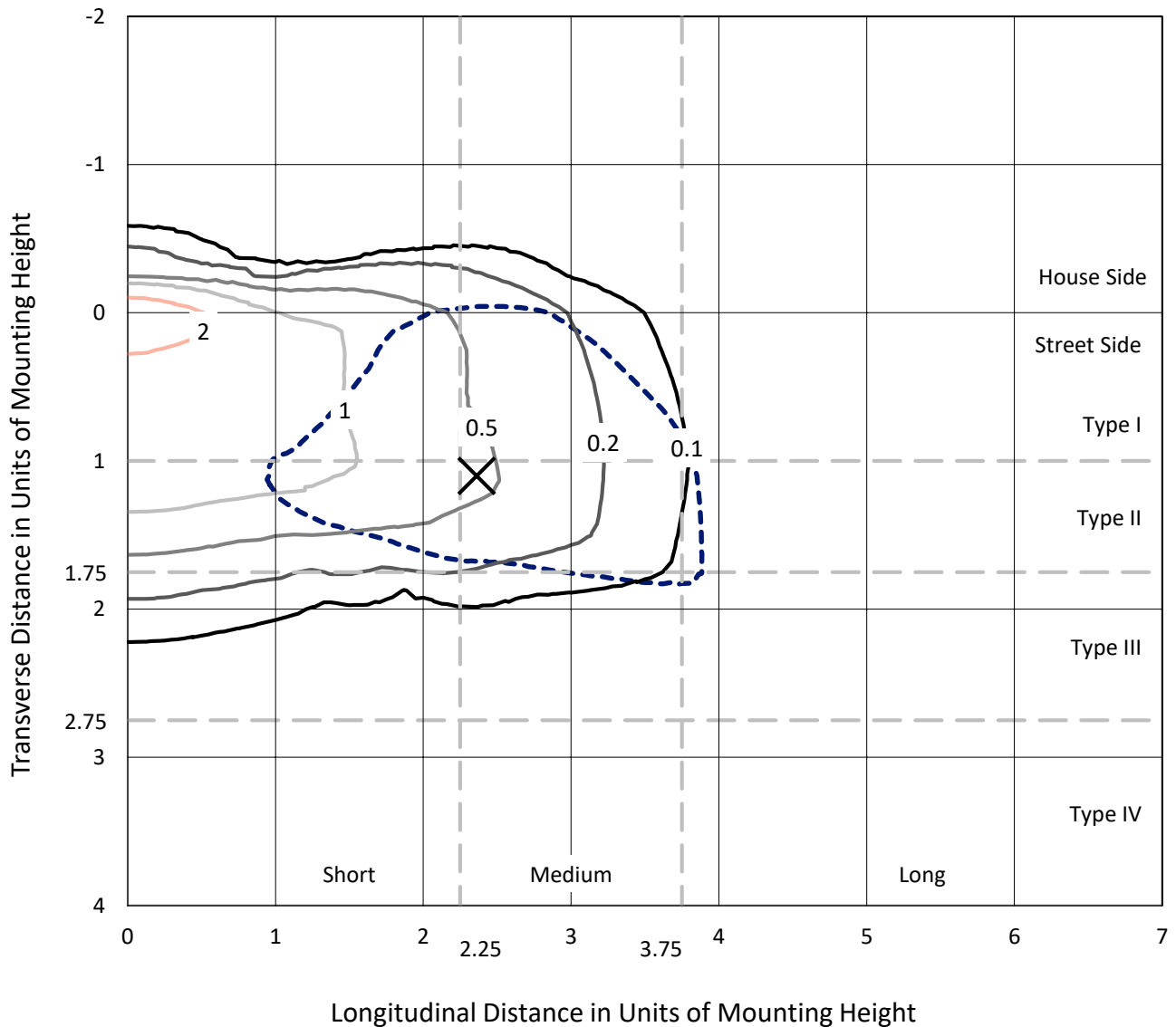
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

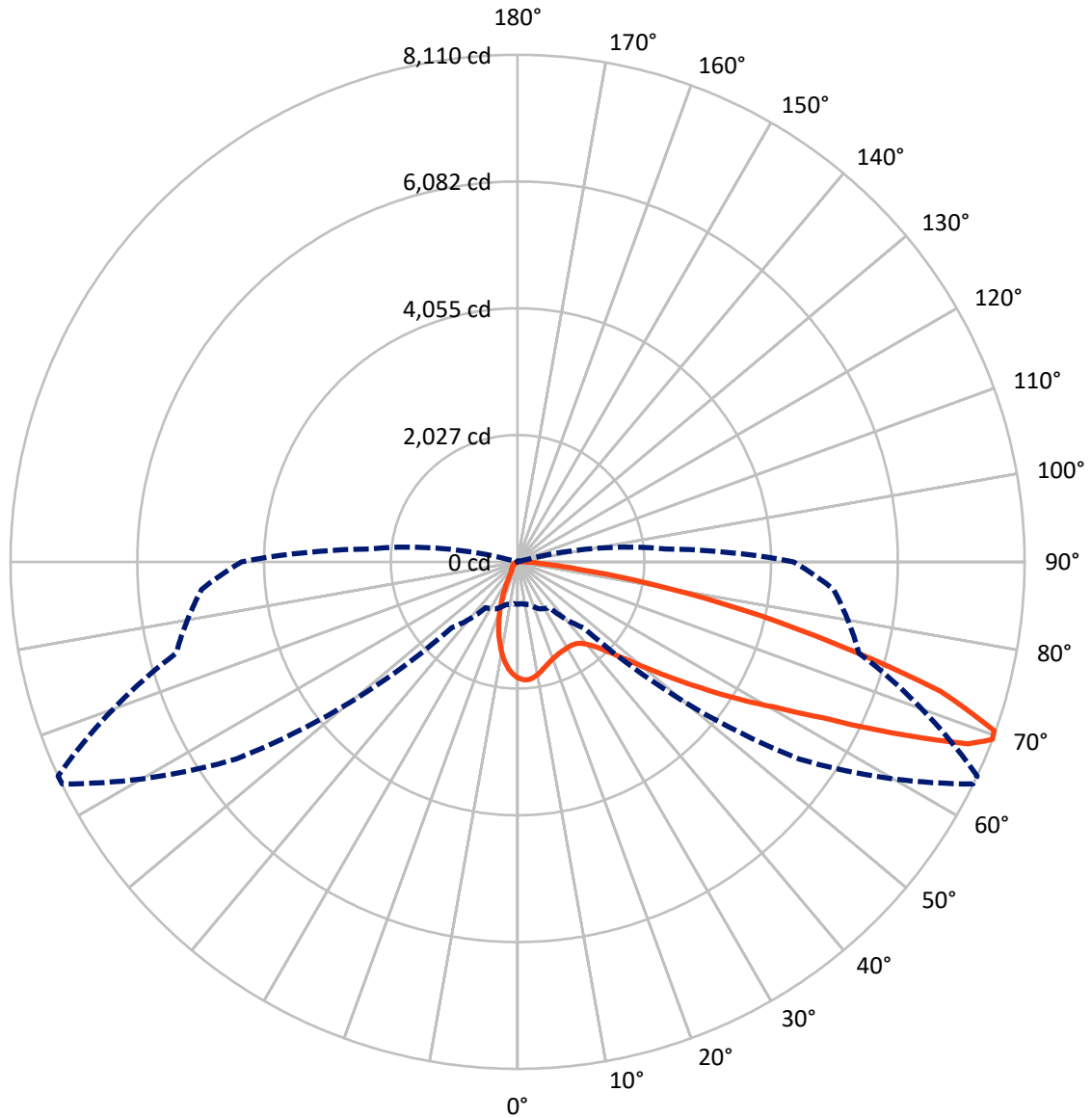
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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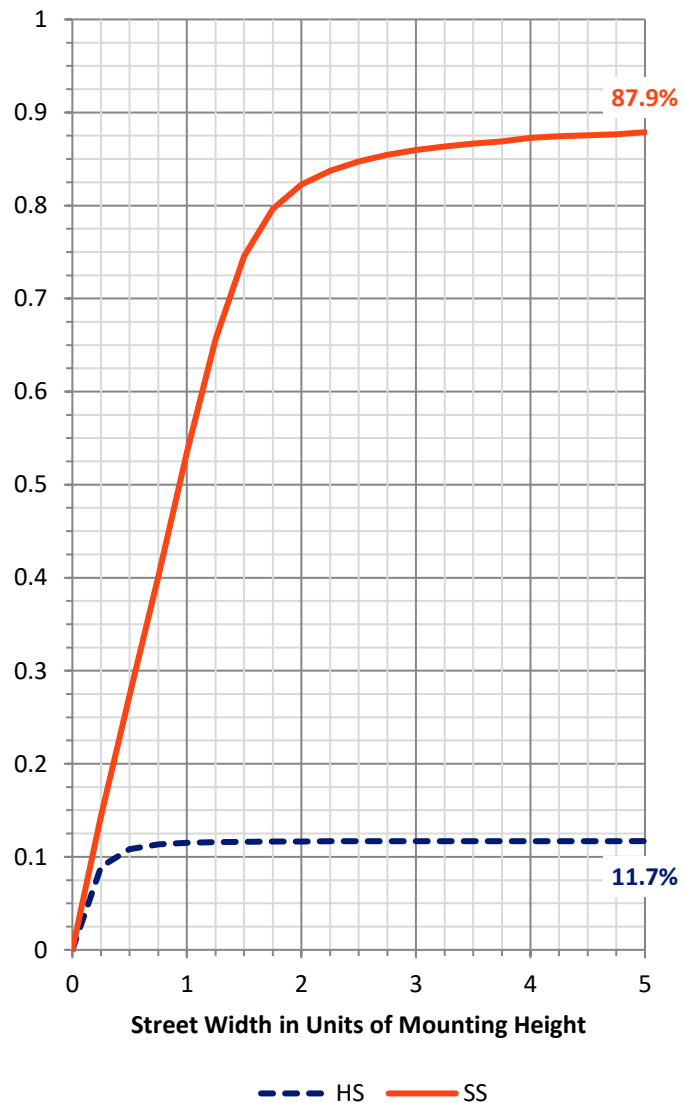
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.3	0.0	867.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6490.1	0.0	6490.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	7357.4	0.0	7357.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.1
10°-20°	340.3	4.6
20°-30°	471.4	6.4
30°-40°	657.2	8.9
40°-50°	1021.6	13.9
50°-60°	1640.0	22.3
60°-70°	1855.1	25.2
70°-80°	1089.5	14.8
80°-90°	126.7	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°	7357.4	100.0
0°-180°	7357.4	100.0

Coefficient of Utilization



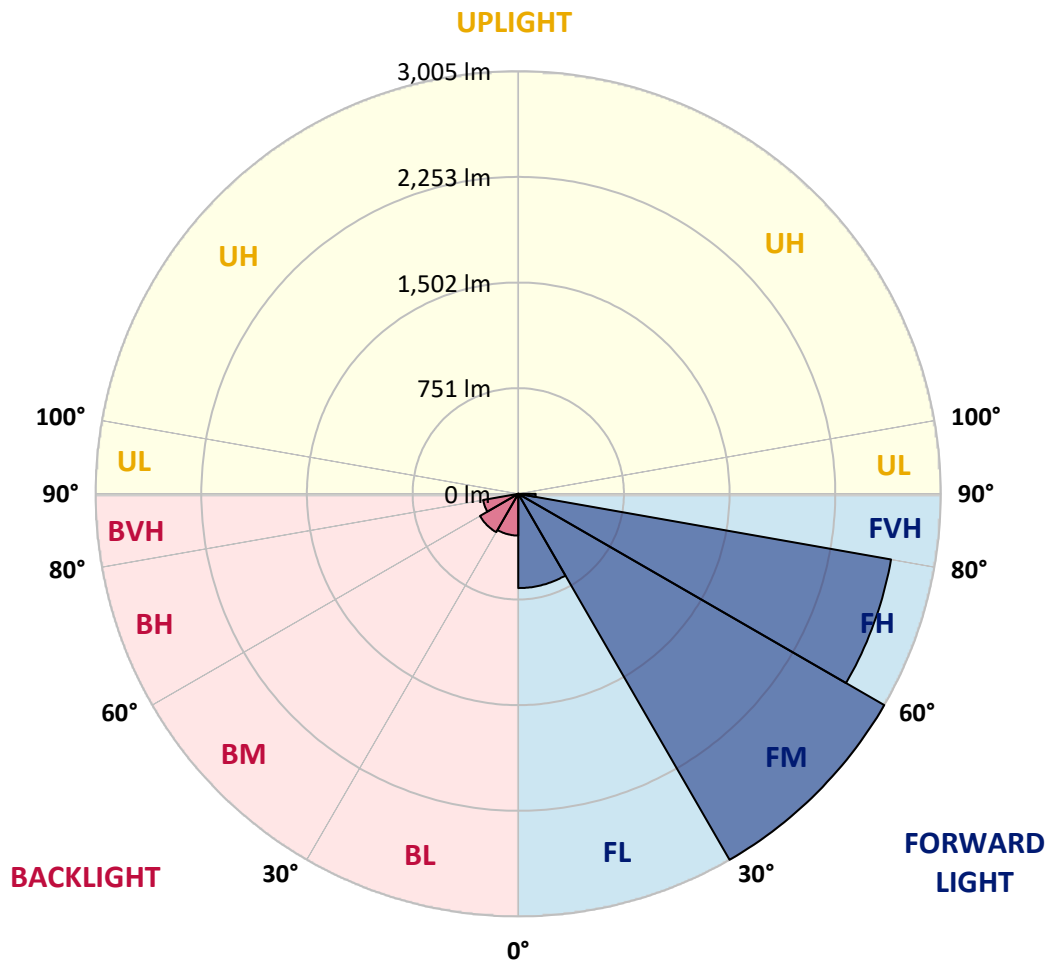
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.4	9.1			
FM (30°-60°)	3004.5	40.8			
FH (60°-80°)	2691.3	36.6			G2/5000
FVH (80°-90°)	123.9	1.7			G2/225
BL (0°-30°)	296.7	4.0	B1/500		
BM (30°-60°)	314.3	4.3	B1/1000		
BH (60°-80°)	253.4	3.4	B1/500		G1/500
BVH (80°-90°)	2.8	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°	64°	65°	75°	85°
0°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	1875.8	1871.0	1874.7	1882.8	1886.9	1886.9	1890.0	1886.3	1887.6	1878.6	1865.4
5°	1758.4	1751.2	1761.5	1784.2	1812.2	1836.2	1871.7	1890.4	1892.3	1892.5	1877.3
7.5°	1632.0	1625.5	1640.6	1667.5	1703.5	1748.0	1810.0	1864.2	1867.3	1896.5	1885.4
10°	1529.2	1524.6	1542.3	1571.0	1613.3	1663.1	1739.0	1814.4	1823.4	1888.2	1884.1
12.5°	1447.6	1443.9	1460.8	1493.7	1537.0	1592.1	1671.5	1758.9	1771.2	1869.2	1877.9
15°	1388.2	1387.5	1401.6	1433.4	1481.3	1532.7	1613.9	1707.6	1721.6	1848.7	1877.0
17.5°	1357.1	1358.0	1368.3	1395.4	1436.4	1487.5	1565.4	1664.3	1679.6	1830.3	1881.6
20°	1353.9	1354.8	1360.5	1375.7	1409.1	1454.1	1525.8	1627.9	1643.8	1816.6	1889.1
22.5°	1381.3	1380.7	1382.2	1380.7	1399.4	1433.7	1499.6	1599.9	1618.3	1807.6	1895.0
25°	1433.9	1433.0	1432.4	1420.9	1408.4	1426.8	1488.7	1584.0	1601.4	1801.0	1898.4
27.5°	1507.2	1506.5	1505.6	1486.6	1449.2	1437.7	1490.0	1578.1	1592.8	1795.7	1897.8
30°	1603.3	1607.7	1606.5	1580.0	1521.8	1471.0	1503.1	1575.0	1587.7	1785.4	1891.3
32.5°	1716.3	1725.0	1731.9	1703.5	1630.7	1537.0	1533.2	1578.4	1587.7	1777.7	1879.5
35°	1833.7	1844.9	1870.1	1860.1	1764.3	1636.4	1585.2	1598.9	1606.7	1782.1	1873.8
37.5°	1949.2	1962.6	2017.4	2046.3	1939.2	1767.7	1666.2	1649.7	1653.8	1808.5	1880.0
40°	2083.4	2103.6	2186.7	2233.4	2148.1	1943.6	1787.3	1736.9	1738.5	1866.7	1909.0
42.5°	2259.6	2280.4	2370.4	2443.5	2383.5	2165.8	1951.7	1870.1	1868.6	1975.6	1977.2
45°	2474.4	2496.2	2589.2	2670.6	2643.5	2429.3	2162.1	2064.7	2062.8	2147.5	2106.4
47.5°	2717.9	2739.3	2822.5	2906.2	2935.5	2736.8	2430.2	2330.3	2325.9	2386.3	2306.0
50°	2926.7	2940.7	3017.4	3130.0	3262.0	3114.8	2763.6	2667.4	2662.7	2703.5	2598.9
52.5°	3002.8	3010.8	3088.6	3246.4	3575.8	3626.6	3201.6	3077.7	3074.3	3092.1	2989.0
55°	2849.0	2863.6	2959.2	3193.3	3745.8	4205.0	3754.5	3585.8	3560.0	3521.7	3396.8
57.5°	2429.8	2453.2	2556.0	2867.3	3666.5	4663.9	4567.1	4160.5	4122.6	3888.4	3728.4
60°	1820.6	1849.2	1934.5	2270.5	3242.7	4827.4	5455.0	4800.9	4715.3	4180.4	4033.2
62.5°	1249.3	1263.6	1321.6	1540.4	2388.1	4559.6	6197.8	5658.6	5502.3	4498.0	4362.9
65°	954.2	959.2	982.9	1058.1	1422.1	3703.8	6493.3	6790.2	6601.3	4877.8	4705.1
67.5°	769.0	764.9	797.6	905.4	952.3	2259.6	6148.6	7860.9	7772.5	5385.6	5049.4
69°	678.1	672.5	705.7	830.9	894.5	1493.7	5496.7	8104.0	8109.7	5653.7	5073.0
70°	610.2	613.9	647.0	786.7	874.8	1172.4	4874.0	8042.1	8086.3	5753.9	4931.1
72.5°	407.6	417.5	483.8	653.2	841.2	887.3	2942.9	6901.1	7071.1	5528.2	4230.5
75°	229.7	237.3	316.0	492.5	792.7	844.9	1554.5	5084.2	5248.6	4622.8	3262.4
77.5°	112.7	116.7	178.7	317.8	662.8	805.0	881.7	3453.5	3641.2	3017.4	1845.2
80°	47.6	49.8	89.3	196.1	473.9	768.3	654.7	2125.4	2148.7	1182.1	491.6
82.5°	18.4	19.0	37.6	122.3	301.1	599.0	547.7	1007.7	983.4	222.6	112.1
85°	2.1	2.5	13.7	73.5	167.5	308.2	444.9	434.3	402.0	44.2	57.6
87.5°	0.0	0.0	0.9	22.5	49.8	144.5	231.3	180.3	162.6	14.3	29.9
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°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	1854.5	1851.5	1834.6	1810.4	1787.3	1758.7	1731.3	1714.8	1701.7	1693.0	1703.2
5°	1859.6	1845.9	1794.8	1729.4	1665.2	1593.0	1525.8	1468.9	1446.4	1421.5	1432.7
7.5°	1858.0	1832.2	1740.3	1623.9	1506.2	1384.5	1269.2	1180.6	1134.4	1089.4	1100.8
10°	1850.1	1806.6	1667.5	1494.9	1318.8	1143.8	980.4	856.1	786.7	723.8	732.8
12.5°	1833.1	1772.4	1581.5	1347.4	1111.7	881.1	689.6	530.5	445.2	407.6	412.2
15°	1822.8	1739.0	1490.6	1198.0	890.7	613.6	421.5	313.5	274.6	262.1	263.7
17.5°	1817.8	1707.0	1396.6	1027.0	664.7	390.7	272.4	240.3	232.0	229.7	230.4
20°	1812.8	1674.6	1299.8	858.0	457.9	262.8	223.9	214.5	211.4	208.6	209.2
22.5°	1804.4	1643.4	1195.8	686.7	308.8	213.2	201.8	192.7	186.2	182.8	183.3
25°	1794.2	1610.7	1089.6	511.5	225.4	190.2	179.3	166.6	158.7	152.6	152.9
27.5°	1777.7	1570.6	980.1	372.3	189.3	170.3	155.7	141.7	128.6	121.4	121.4
30°	1754.6	1525.1	858.3	266.5	169.6	150.7	132.9	115.5	101.4	94.9	94.4
32.5°	1729.0	1477.8	735.4	202.1	154.1	132.3	112.1	93.7	81.2	75.9	75.6
35°	1707.2	1426.8	612.7	169.4	138.5	114.6	92.5	76.9	67.0	62.6	62.2
37.5°	1693.3	1375.7	493.2	151.3	124.5	98.1	77.5	63.5	56.4	52.9	52.6
40°	1691.1	1337.8	383.9	137.6	111.4	83.5	64.7	53.8	47.3	43.6	43.3
42.5°	1719.5	1316.0	294.6	126.1	98.1	70.7	55.1	46.1	39.2	35.5	35.2
45°	1793.9	1322.8	226.6	115.8	84.7	59.8	46.7	38.3	32.0	29.3	28.6
47.5°	1929.6	1370.1	180.3	105.5	71.9	50.8	39.9	31.8	26.5	23.7	23.4
50°	2171.2	1481.3	150.7	94.4	60.1	43.3	33.0	25.8	21.5	19.0	18.7
52.5°	2491.8	1679.3	134.5	83.5	49.8	36.7	27.1	20.6	16.8	14.9	14.6
55°	2845.5	1919.0	123.9	71.6	40.8	30.6	21.5	16.2	13.0	11.6	10.9
57.5°	3190.7	2126.6	113.9	60.1	33.9	24.9	17.1	12.8	10.2	8.8	8.4
60°	3508.0	2317.5	102.5	48.3	27.7	19.7	13.4	10.0	8.1	6.5	6.5
62.5°	3847.7	2465.1	86.5	37.6	22.7	14.9	10.9	9.0	6.5	5.6	5.3
65°	4207.5	2574.6	67.9	29.3	17.7	11.2	9.0	9.3	5.3	4.0	3.7
67.5°	4473.4	2552.8	50.1	23.0	13.7	8.8	8.8	10.0	4.7	3.1	2.8
69°	4414.9	2375.7	42.0	19.9	11.8	7.5	8.1	10.0	4.4	2.8	2.5
70°	4245.2	2179.5	37.1	17.7	10.6	6.9	7.8	9.7	4.0	2.8	2.5
72.5°	3535.4	1641.6	29.0	13.4	8.4	5.6	6.5	8.4	4.0	2.8	2.1
75°	2659.3	1050.7	22.1	9.7	6.2	4.4	4.9	6.2	4.0	2.5	2.1
77.5°	1447.1	378.9	15.8	6.5	4.4	3.4	3.4	4.7	3.7	1.9	1.2
80°	372.1	95.3	10.0	4.4	3.4	2.5	2.1	3.1	2.1	0.3	0.0
82.5°	91.9	21.5	5.3	3.1	2.5	0.9	0.9	1.6	0.9	0.0	0.0
85°	50.4	10.6	3.4	2.1	1.2	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	25.8	3.1	0.9	0.7	0.3	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)