

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: P647821

Luminaire Tested: **GALN-SA3A-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 8748.4 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

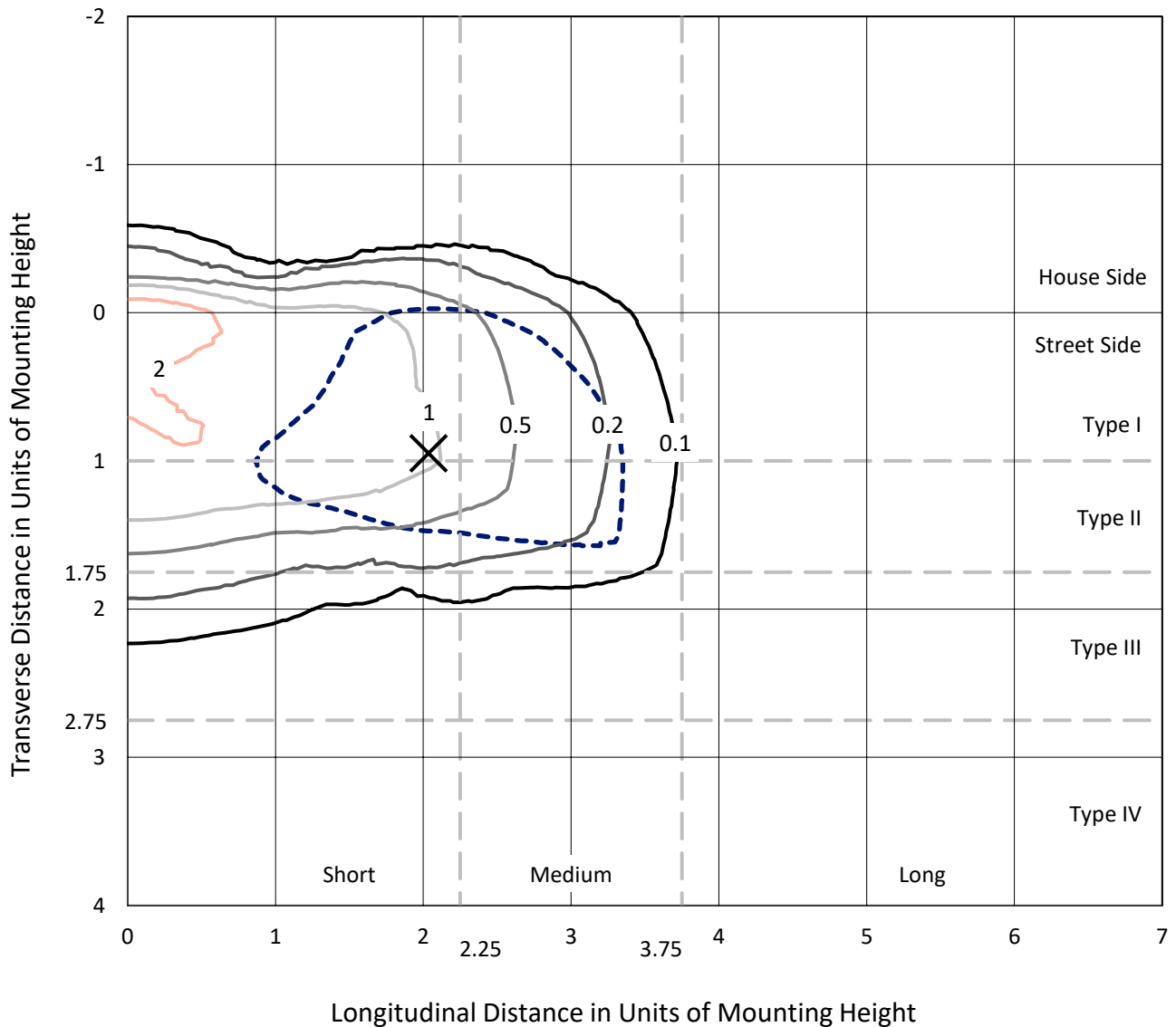
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

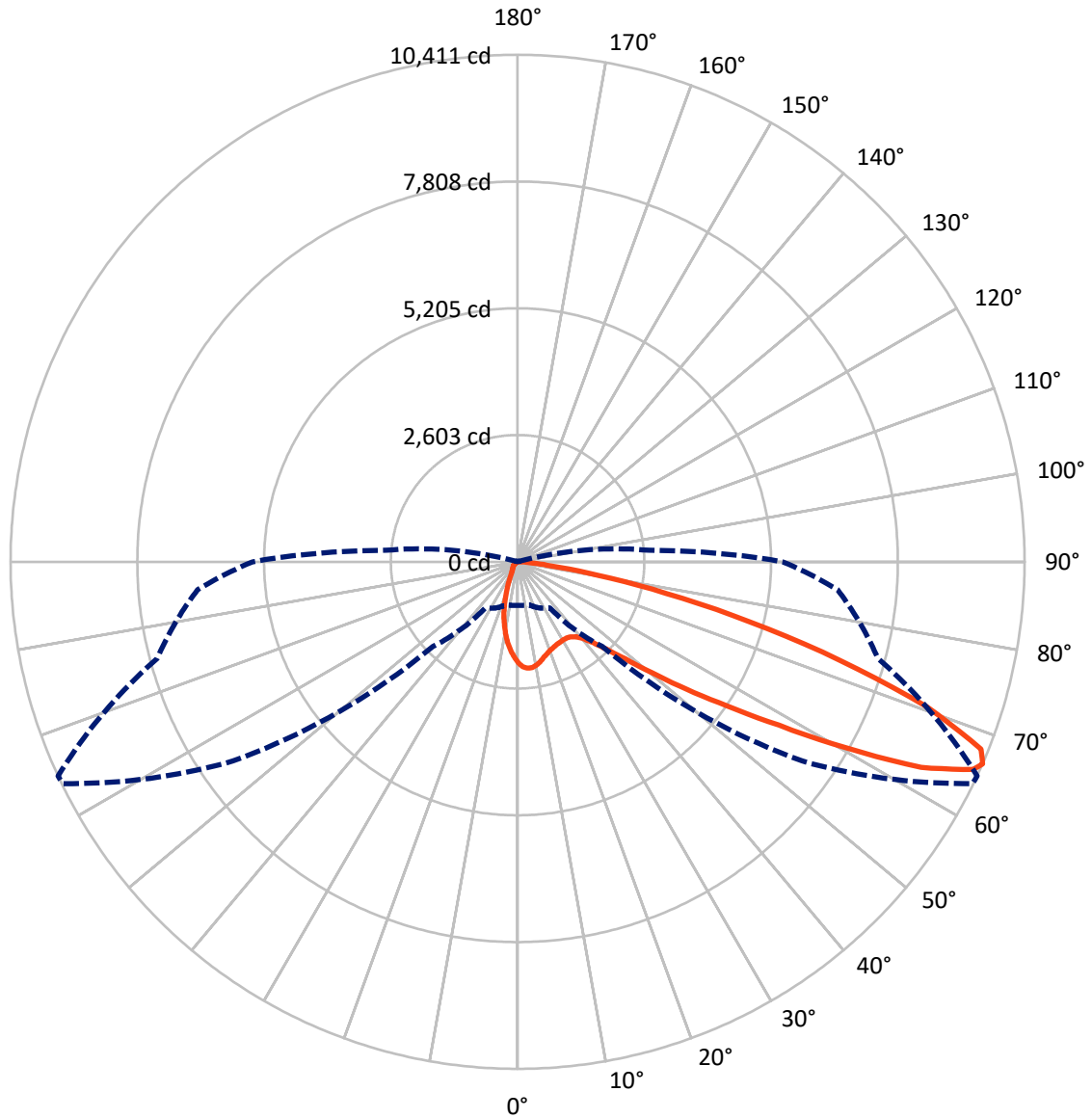
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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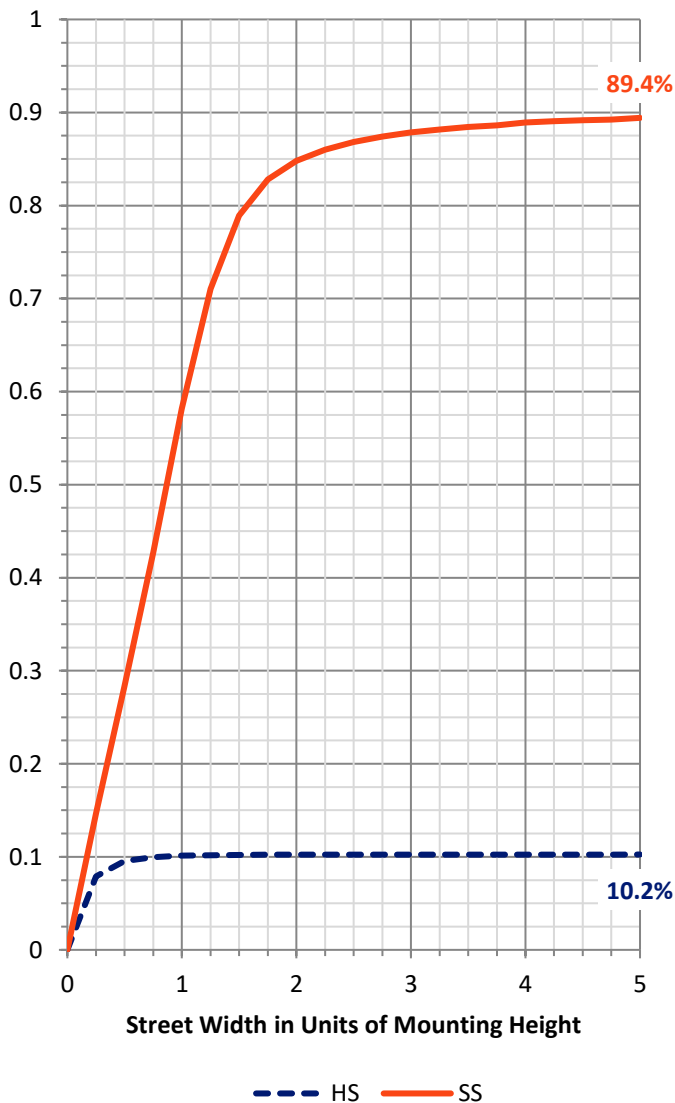
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.7	0.0	904.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7843.7	0.0	7843.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	8748.4	0.0	8748.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	1.9
10°-20°	369.7	4.2
20°-30°	529.6	6.1
30°-40°	773.5	8.8
40°-50°	1297.0	14.8
50°-60°	2164.5	24.7
60°-70°	2297.5	26.3
70°-80°	1040.5	11.9
80°-90°	106.5	1.2
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°	8748.4	100.0
0°-180°	8748.4	100.0

Coefficient of Utilization



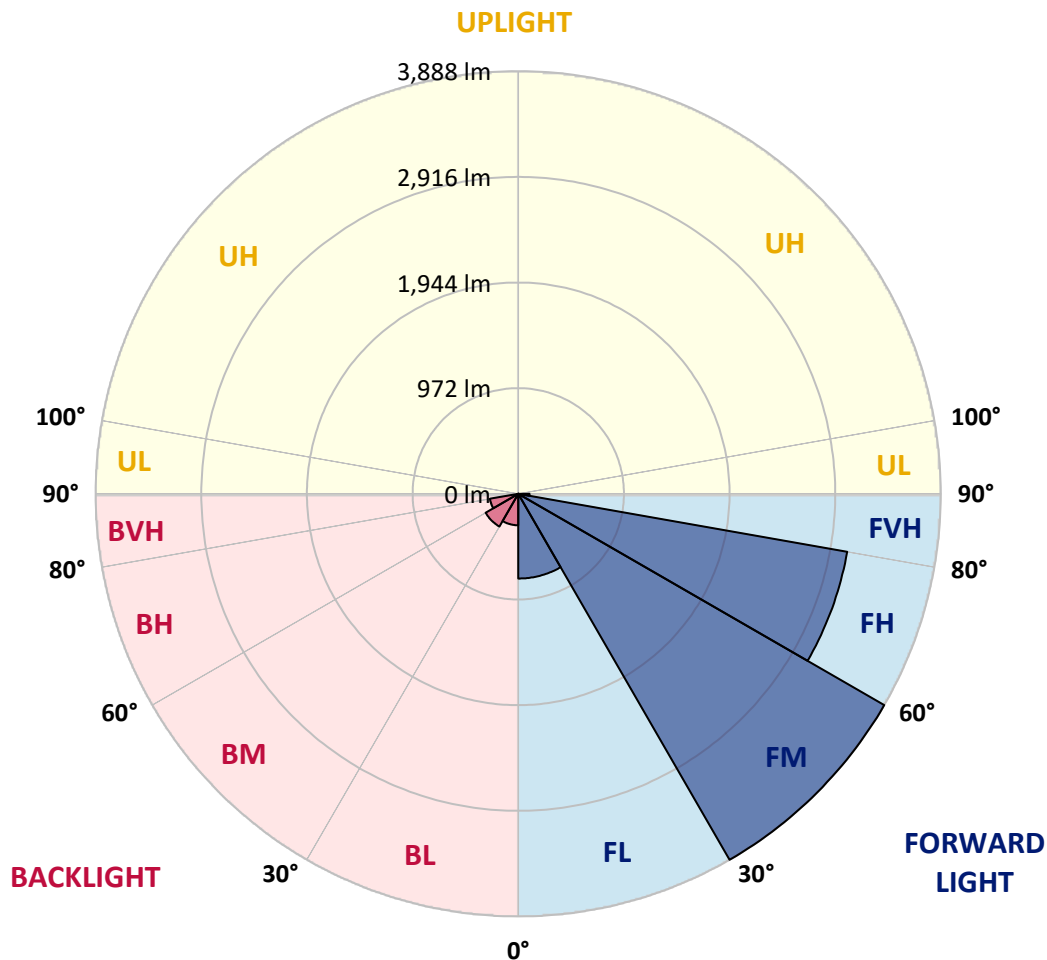
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.5	8.9			
FM (30°-60°)	3888.0	44.4			
FH (60°-80°)	3073.1	35.1			G2/5000
FVH (80°-90°)	103.1	1.2			G2/225
BL (0°-30°)	289.4	3.3	B1/500		
BM (30°-60°)	347.0	4.0	B1/1000		
BH (60°-80°)	264.9	3.0	B1/500		G1/500
BVH (80°-90°)	3.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6
2.5°	2186.3	2188.6	2191.5	2195.7	2198.7	2189.8	2177.4	2163.2	2160.3	2130.2	2093.5
5°	2069.2	2072.8	2098.8	2113.0	2144.9	2173.8	2192.2	2194.5	2193.3	2165.0	2106.5
7.5°	1902.6	1912.7	1938.1	1962.9	2022.6	2077.5	2142.5	2188.0	2191.0	2183.3	2110.7
10°	1767.3	1773.8	1786.8	1835.9	1885.5	1969.4	2060.4	2146.0	2153.2	2183.9	2107.1
12.5°	1661.5	1671.0	1687.0	1724.8	1784.5	1863.6	1967.1	2082.2	2097.0	2172.7	2097.0
15°	1587.7	1592.4	1608.4	1645.6	1703.5	1776.8	1881.4	2015.5	2028.5	2157.9	2095.2
17.5°	1552.8	1558.2	1569.4	1598.9	1646.8	1714.8	1817.0	1961.7	1978.2	2148.5	2101.7
20°	1562.3	1567.0	1567.6	1583.0	1615.5	1672.8	1769.7	1911.5	1932.8	2142.5	2112.4
22.5°	1616.0	1616.7	1609.5	1602.5	1613.7	1655.0	1740.8	1879.6	1901.4	2141.3	2124.8
25°	1696.4	1698.2	1686.3	1661.5	1639.1	1660.4	1734.3	1858.9	1878.4	2138.4	2132.5
27.5°	1807.5	1806.9	1803.4	1762.0	1698.2	1684.0	1739.6	1847.6	1864.2	2130.2	2135.5
30°	1962.9	1958.2	1950.5	1903.8	1806.3	1741.3	1762.0	1840.6	1855.9	2118.3	2127.7
32.5°	2116.0	2133.7	2132.5	2088.2	1966.4	1843.6	1808.7	1850.1	1861.3	2110.7	2116.5
35°	2294.4	2293.8	2339.3	2322.8	2180.3	1974.1	1888.4	1881.4	1890.2	2116.0	2111.2
37.5°	2459.9	2475.2	2546.1	2563.2	2433.3	2158.5	2001.3	1948.7	1951.7	2152.0	2124.2
40°	2666.0	2695.6	2801.3	2858.7	2744.0	2432.1	2168.0	2072.2	2072.8	2240.6	2173.3
42.5°	2931.9	2978.6	3077.3	3173.0	3111.6	2755.8	2417.9	2267.8	2266.6	2396.6	2285.5
45°	3255.2	3287.7	3399.9	3551.8	3512.8	3207.9	2781.8	2570.9	2555.6	2652.5	2484.6
47.5°	3534.1	3578.4	3692.4	3865.5	4042.8	3759.8	3216.7	2987.5	2977.4	3059.6	2826.2
50°	3655.7	3694.7	3814.7	4057.6	4487.1	4484.2	3864.3	3595.5	3578.4	3622.7	3354.5
52.5°	3522.2	3558.9	3680.0	3982.6	4696.4	5367.0	4802.7	4358.3	4337.7	4280.9	3985.5
55°	3064.9	3095.0	3274.0	3621.5	4615.9	5955.5	6095.5	5300.8	5220.4	5000.0	4699.9
57.5°	2440.4	2425.0	2536.1	2939.6	4144.4	6152.8	7422.6	6474.9	6331.3	5621.6	5304.4
60°	1691.1	1738.3	1783.3	2049.2	3116.3	5810.7	8248.1	7950.9	7761.8	6233.2	5883.4
62.5°	1243.2	1274.6	1304.1	1426.9	1959.4	4639.6	8394.1	9467.1	9299.3	6882.6	6435.9
65°	983.2	985.6	997.4	1118.5	1291.1	3017.1	7692.7	10322.1	10279.0	7507.7	6659.8
66°	895.8	896.4	914.7	1044.7	1158.7	2456.9	7130.8	10387.1	10410.7	7657.8	6594.2
67.5°	782.9	780.6	807.1	938.9	1055.3	1771.5	6125.1	10123.6	10263.6	7773.0	6358.4
70°	606.8	603.8	636.3	787.6	972.0	1181.8	4071.1	8692.5	8918.1	7537.2	5625.8
72.5°	404.2	406.5	462.0	621.6	927.7	1040.5	2449.2	6612.5	6931.6	6224.3	4425.7
75°	235.8	239.9	303.1	462.0	805.4	992.1	1386.2	4715.2	4919.1	4298.0	2757.0
77.5°	123.5	125.3	169.6	304.9	617.5	921.2	923.5	3012.3	3108.0	2088.7	1091.3
80°	65.6	63.8	91.0	183.8	424.9	808.9	749.3	1594.8	1658.0	620.4	275.9
82.5°	24.8	27.2	48.5	120.5	251.1	580.8	645.3	704.9	683.1	136.5	115.8
85°	4.7	5.9	20.7	71.5	126.5	242.9	475.7	345.7	320.2	51.4	66.8
87.5°	0.6	1.2	5.9	17.1	18.3	82.1	140.6	95.8	82.7	18.9	27.8
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°	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6	2074.6
2.5°	2075.7	2059.8	2006.6	1954.1	1900.3	1851.8	1818.8	1765.0	1751.3	1731.8	1720.6
5°	2071.7	2034.4	1932.2	1820.5	1716.5	1604.2	1518.6	1435.9	1391.5	1369.1	1360.8
7.5°	2059.8	2000.7	1841.1	1666.3	1499.7	1331.9	1185.9	1074.8	1003.3	954.2	921.2
10°	2036.2	1954.6	1735.4	1494.9	1243.2	1021.7	836.7	696.1	587.3	553.0	554.2
12.5°	2011.9	1903.2	1617.2	1304.6	992.7	713.2	517.0	405.9	353.9	336.8	333.2
15°	1989.5	1854.2	1501.4	1120.3	739.2	462.0	333.2	294.3	280.1	277.1	276.6
17.5°	1977.7	1808.7	1377.9	909.4	515.8	313.7	267.1	256.4	252.3	249.4	248.1
20°	1967.6	1769.1	1259.8	712.0	352.7	257.1	239.3	229.3	222.1	219.2	217.4
22.5°	1960.6	1728.3	1137.5	551.3	270.1	228.1	212.1	199.1	189.1	185.6	183.1
25°	1949.9	1683.4	1014.0	403.0	227.5	202.6	184.3	169.0	156.0	149.5	148.3
27.5°	1934.6	1632.6	878.6	298.4	203.3	180.2	157.8	138.8	125.8	118.8	119.3
30°	1909.7	1579.4	743.3	236.9	183.8	157.1	133.0	114.6	102.3	96.9	96.3
32.5°	1880.2	1515.0	619.3	203.3	166.1	136.5	111.1	95.1	85.7	81.5	81.0
35°	1852.4	1450.0	492.8	182.6	147.8	117.6	93.3	79.8	72.7	69.1	69.7
37.5°	1837.1	1392.1	384.1	166.1	133.0	101.0	80.3	68.5	62.0	59.1	58.5
40°	1847.1	1344.9	305.4	151.3	116.4	86.8	69.1	59.1	52.6	48.5	48.5
42.5°	1894.4	1324.1	246.4	137.1	101.0	75.0	60.3	50.8	43.7	39.6	40.2
45°	2038.5	1346.1	206.2	124.1	86.8	65.0	52.0	42.0	35.5	32.5	31.9
47.5°	2277.8	1428.2	178.4	110.5	74.5	55.5	43.7	34.8	28.3	26.0	25.4
50°	2696.2	1597.7	157.8	96.9	63.2	47.3	36.0	27.8	22.5	20.1	20.1
52.5°	3271.7	1967.6	143.0	81.5	53.2	40.2	29.5	22.5	17.7	16.0	15.3
55°	3873.2	2357.6	135.3	68.5	44.3	33.1	23.6	17.7	13.6	11.8	11.2
57.5°	4451.7	2663.7	126.5	55.5	35.5	25.4	18.3	13.6	9.5	8.3	7.7
60°	5006.5	2911.3	107.5	44.3	27.8	18.3	13.6	9.5	6.5	5.3	5.3
62.5°	5502.8	3055.4	84.5	35.5	21.3	13.0	8.8	7.1	4.7	3.5	3.5
65°	5560.8	2868.1	63.8	27.2	15.3	8.3	5.3	5.3	3.5	2.3	2.3
66°	5444.4	2709.2	56.1	24.8	13.6	7.1	4.7	4.1	3.0	1.8	1.8
67.5°	5184.4	2437.9	48.5	21.3	11.2	5.3	3.5	3.5	2.3	1.2	1.2
70°	4479.5	1991.2	38.4	16.0	8.3	4.1	2.3	2.3	1.8	1.2	1.2
72.5°	3414.1	1486.7	31.3	11.8	5.9	3.0	1.8	1.8	1.8	1.2	1.2
75°	2059.2	800.6	24.2	8.8	5.3	2.3	1.2	1.8	2.3	1.8	1.2
77.5°	758.7	272.4	18.9	7.1	4.1	2.3	1.2	1.2	2.3	1.8	1.8
80°	186.1	70.9	13.6	5.9	4.1	2.3	1.2	1.2	2.3	2.3	2.3
82.5°	86.3	30.1	9.5	5.3	4.1	2.3	1.2	1.2	1.8	2.3	2.3
85°	49.6	14.2	7.7	5.9	4.1	2.3	1.2	1.2	1.8	2.3	2.3
87.5°	20.1	7.1	7.1	5.9	4.7	3.0	1.2	1.2	1.2	1.8	1.8
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)