

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: P651781

Luminaire Tested: **GALN-SA3A-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651781
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-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 9396.5 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

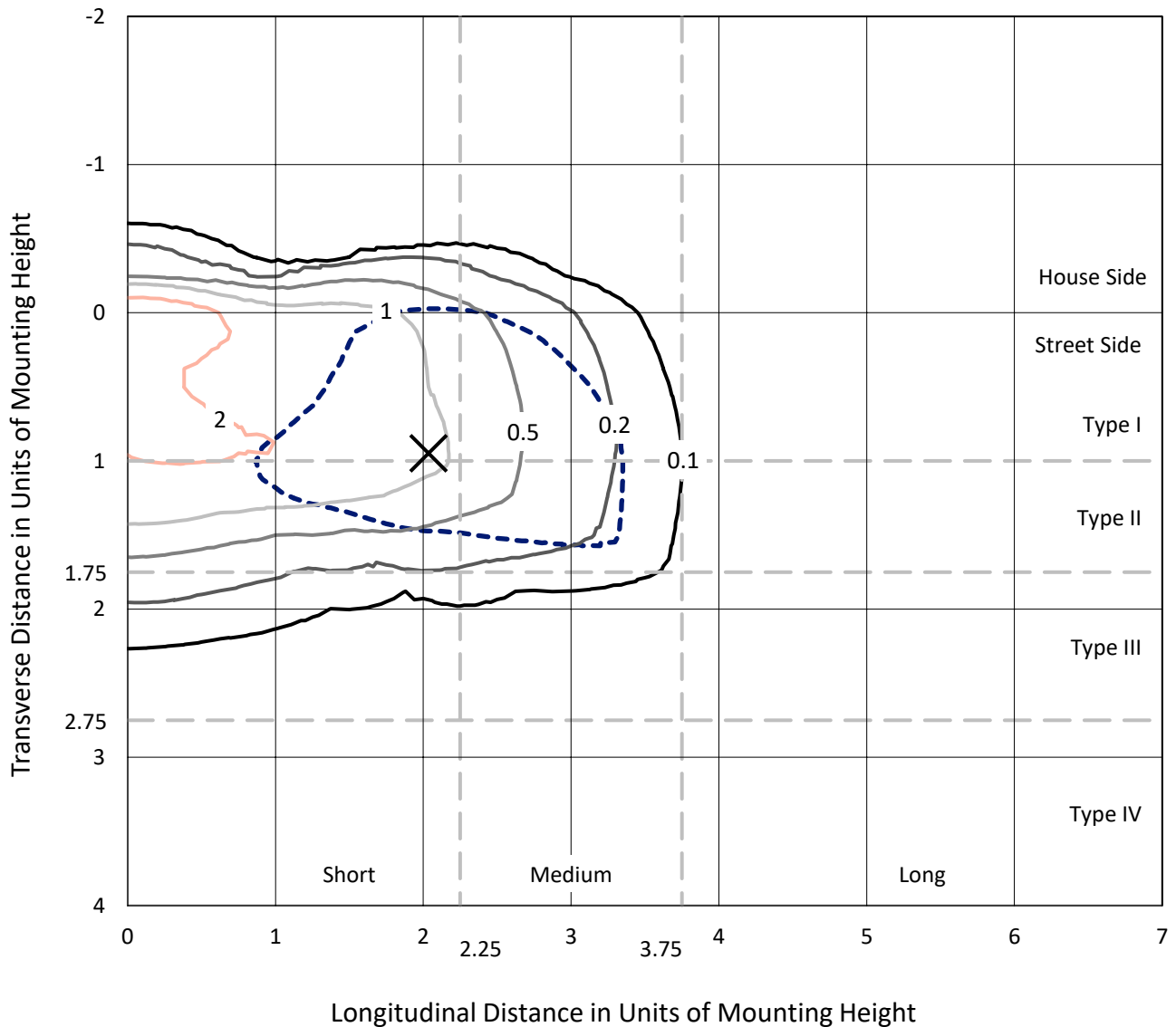
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

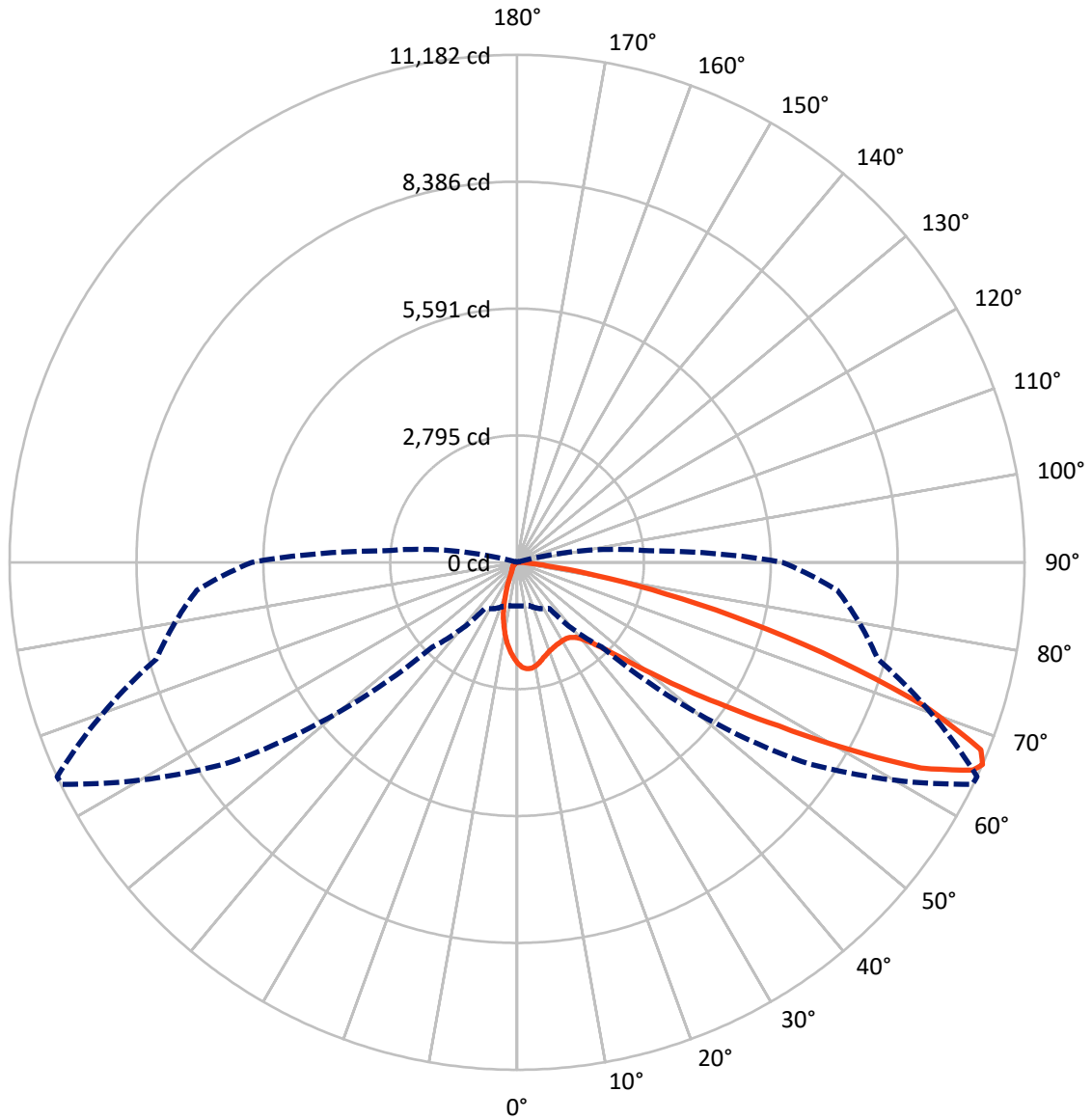
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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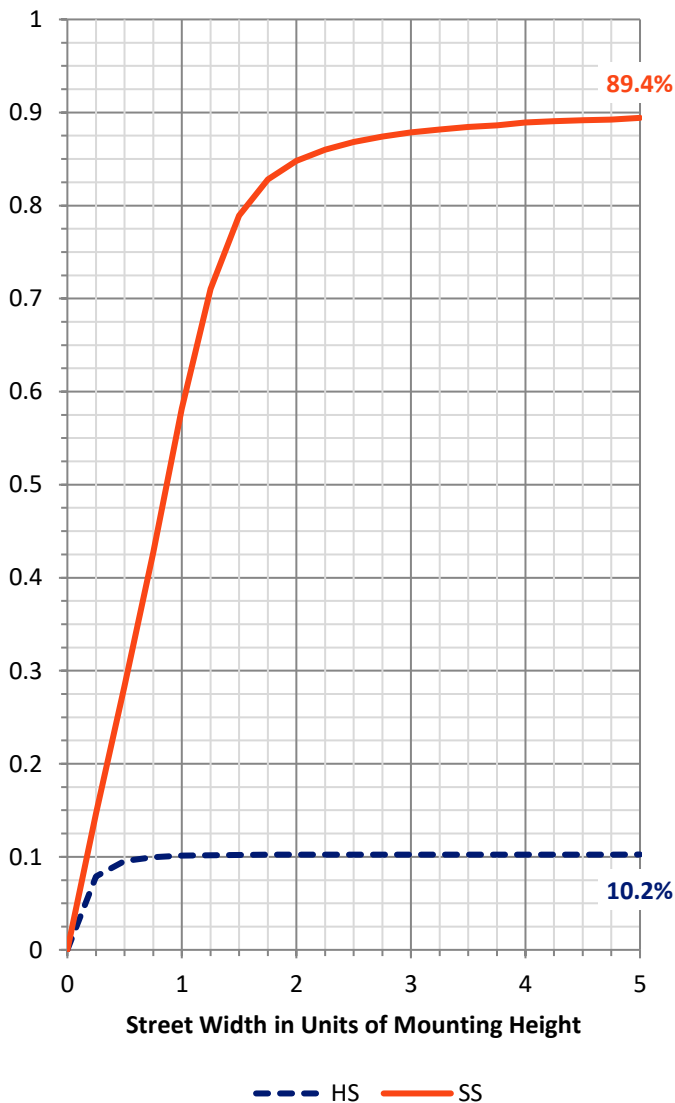
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.7	0.0	971.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8424.8	0.0	8424.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	9396.5	0.0	9396.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.9
10°-20°	397.1	4.2
20°-30°	568.8	6.1
30°-40°	830.8	8.8
40°-50°	1393.1	14.8
50°-60°	2324.8	24.7
60°-70°	2467.7	26.3
70°-80°	1117.6	11.9
80°-90°	114.4	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°	9396.5	100.0
0°-180°	9396.5	100.0

Coefficient of Utilization



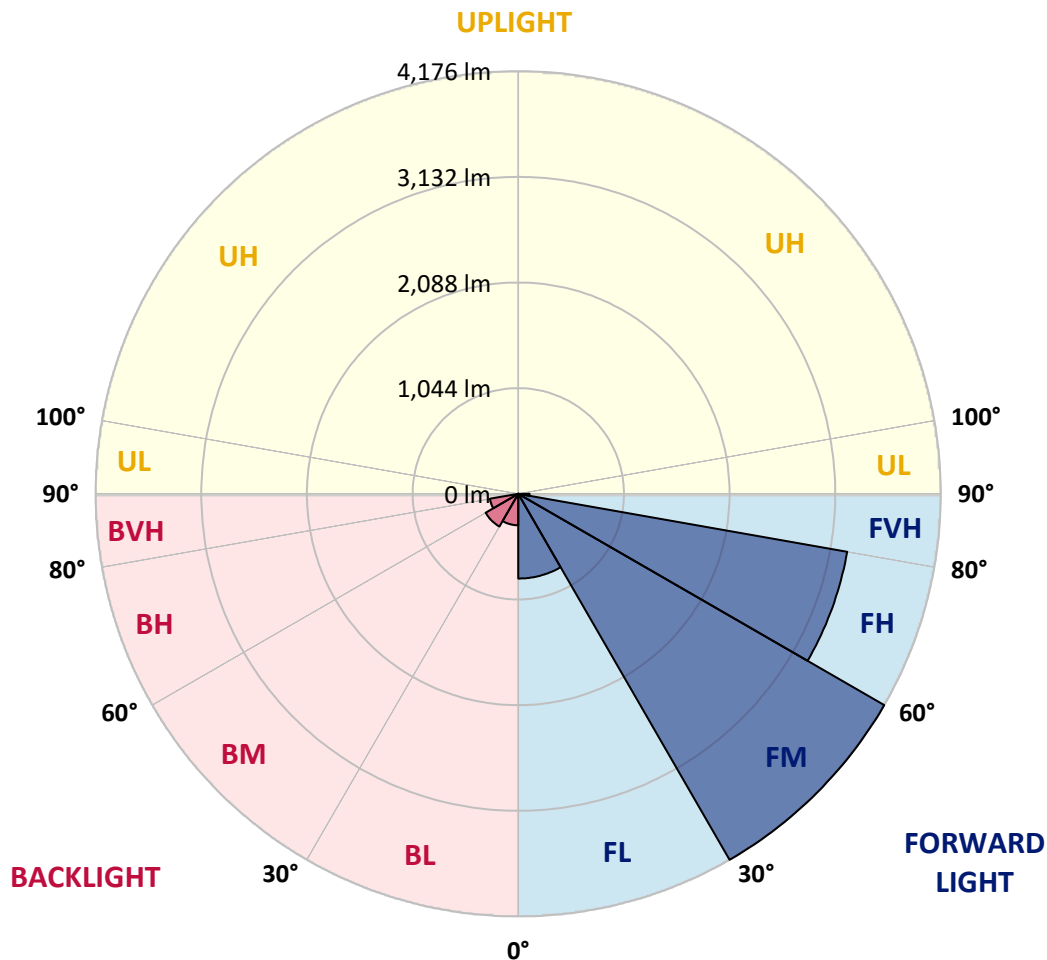
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.3	8.9			
FM (30°-60°)	4176.0	44.4			
FH (60°-80°)	3300.8	35.1			G2/5000
FVH (80°-90°)	110.7	1.2			G2/225
BL (0°-30°)	310.8	3.3	B1/500		
BM (30°-60°)	372.7	4.0	B1/1000		
BH (60°-80°)	284.6	3.0	B1/500		G1/500
BVH (80°-90°)	3.6	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°	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2
2.5°	2348.2	2350.8	2353.9	2358.3	2361.5	2352.0	2338.7	2323.4	2320.3	2287.9	2248.6
5°	2222.5	2226.4	2254.3	2269.5	2303.8	2334.9	2354.5	2357.1	2355.8	2325.4	2262.5
7.5°	2043.5	2054.4	2081.6	2108.3	2172.4	2231.4	2301.2	2350.1	2353.3	2345.0	2267.0
10°	1898.2	1905.2	1919.2	1971.9	2025.1	2115.3	2213.0	2305.0	2312.7	2345.6	2263.1
12.5°	1784.6	1794.8	1811.9	1852.6	1916.6	2001.7	2112.8	2236.5	2252.4	2333.6	2252.4
15°	1705.3	1710.3	1727.5	1767.5	1829.7	1908.4	2020.8	2164.8	2178.8	2317.7	2250.4
17.5°	1667.9	1673.6	1685.6	1717.3	1768.8	1841.8	1951.5	2107.0	2124.8	2307.6	2257.4
20°	1678.0	1683.1	1683.8	1700.2	1735.2	1796.7	1900.7	2053.1	2075.9	2301.2	2268.8
22.5°	1735.7	1736.4	1728.8	1721.2	1733.2	1777.6	1869.7	2018.8	2042.3	2300.0	2282.2
25°	1822.1	1824.0	1811.3	1784.6	1760.5	1783.3	1862.7	1996.6	2017.6	2296.8	2290.5
27.5°	1941.4	1940.8	1937.0	1892.5	1824.0	1808.7	1868.4	1984.5	2002.3	2287.9	2293.7
30°	2108.3	2103.3	2095.0	2044.8	1940.1	1870.3	1892.5	1976.9	1993.4	2275.2	2285.3
32.5°	2272.7	2291.7	2290.5	2242.9	2112.1	1980.1	1942.6	1987.1	1999.1	2267.0	2273.3
35°	2464.4	2463.7	2512.6	2494.8	2341.8	2120.3	2028.3	2020.8	2030.3	2272.7	2267.6
37.5°	2642.1	2658.6	2734.7	2753.1	2613.5	2318.4	2149.6	2093.1	2096.3	2311.4	2281.5
40°	2863.5	2895.3	3008.8	3070.4	2947.3	2612.2	2328.6	2225.7	2226.4	2406.6	2334.3
42.5°	3149.1	3199.2	3305.2	3408.1	3342.0	2960.0	2597.0	2435.8	2434.5	2574.1	2454.8
45°	3496.3	3531.2	3651.8	3814.9	3773.0	3445.5	2987.9	2761.3	2744.9	2849.0	2668.7
47.5°	3795.9	3843.5	3965.9	4151.8	4342.3	4038.3	3455.0	3208.8	3198.0	3286.2	3035.5
50°	3926.5	3968.4	4097.3	4358.1	4819.5	4816.3	4150.6	3861.9	3843.5	3891.1	3602.9
52.5°	3783.2	3822.5	3952.6	4277.6	5044.2	5764.6	5158.4	4681.2	4659.0	4598.0	4280.7
55°	3291.9	3324.3	3516.6	3889.8	4957.9	6396.6	6547.0	5693.4	5607.1	5370.4	5048.0
57.5°	2621.1	2604.6	2723.9	3157.4	4451.4	6608.6	7972.4	6954.5	6800.2	6038.0	5697.3
60°	1816.4	1867.1	1915.4	2201.0	3347.2	6241.1	8859.1	8539.9	8336.7	6694.9	6319.2
62.5°	1335.3	1369.0	1400.7	1532.6	2104.5	4983.3	9015.9	10168.4	9988.1	7392.4	6912.6
65°	1056.0	1058.6	1071.3	1201.4	1386.7	3240.5	8262.5	11086.7	11040.4	8063.8	7153.1
66°	962.1	962.8	982.5	1122.1	1244.5	2638.9	7659.0	11156.5	11181.9	8225.1	7082.6
67.5°	840.9	838.4	866.9	1008.4	1133.5	1902.7	6578.8	10873.5	11023.8	8348.8	6829.4
70°	651.8	648.6	683.5	846.0	1044.0	1269.3	4372.7	9336.4	9578.7	8095.6	6042.5
72.5°	434.1	436.6	496.3	667.7	996.4	1117.6	2630.6	7102.3	7445.0	6685.4	4753.5
75°	253.2	257.7	325.6	496.3	865.1	1065.5	1488.9	5064.5	5283.5	4616.4	2961.2
77.5°	132.6	134.6	182.2	327.5	663.2	989.4	992.0	3235.4	3338.3	2243.5	1172.2
80°	70.5	68.5	97.7	197.4	456.3	868.8	804.8	1712.9	1780.8	666.4	296.4
82.5°	26.7	29.2	52.1	129.4	269.7	623.9	693.1	757.2	733.7	146.6	124.4
85°	5.0	6.3	22.2	76.8	135.8	260.9	510.9	371.3	344.0	55.3	71.7
87.5°	0.7	1.3	6.3	18.4	19.7	88.2	151.0	102.9	88.8	20.3	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°	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2	2228.2
2.5°	2229.5	2212.4	2155.2	2098.8	2041.0	1989.0	1953.5	1895.7	1881.1	1860.1	1848.1
5°	2225.1	2185.1	2075.3	1955.3	1843.6	1723.0	1631.0	1542.2	1494.6	1470.5	1461.6
7.5°	2212.4	2148.9	1977.5	1789.7	1610.8	1430.5	1273.8	1154.4	1077.7	1024.9	989.4
10°	2187.0	2099.4	1864.0	1605.6	1335.3	1097.3	898.7	747.6	630.8	594.0	595.3
12.5°	2160.9	2044.2	1737.0	1401.3	1066.2	766.0	555.3	436.0	380.1	361.7	357.9
15°	2136.9	1991.6	1612.6	1203.3	794.0	496.3	357.9	316.0	300.8	297.6	297.0
17.5°	2124.2	1942.6	1480.0	976.7	554.1	337.0	286.9	275.4	271.0	267.9	266.5
20°	2113.3	1900.2	1353.1	764.7	378.9	276.1	257.0	246.2	238.6	235.5	233.5
22.5°	2105.8	1856.3	1221.7	592.1	290.1	245.0	227.8	213.9	203.1	199.3	196.7
25°	2094.3	1808.2	1089.1	432.9	244.3	217.7	198.0	181.5	167.5	160.5	159.3
27.5°	2077.9	1753.6	943.7	320.5	218.3	193.6	169.5	149.1	135.1	127.6	128.2
30°	2051.2	1696.4	798.4	254.5	197.4	168.8	142.8	123.1	109.8	104.1	103.4
32.5°	2019.5	1627.3	665.1	218.3	178.4	146.6	119.3	102.2	92.0	87.5	87.0
35°	1989.6	1557.4	529.3	196.1	158.7	126.3	100.2	85.7	78.0	74.3	74.8
37.5°	1973.2	1495.2	412.5	178.4	142.8	108.5	86.3	73.6	66.6	63.5	62.8
40°	1983.9	1444.5	328.1	162.5	125.1	93.3	74.3	63.5	56.5	52.1	52.1
42.5°	2034.7	1422.2	264.7	147.3	108.5	80.6	64.8	54.6	46.9	42.6	43.1
45°	2189.5	1445.8	221.5	133.3	93.3	69.8	55.8	45.1	38.1	34.9	34.3
47.5°	2446.6	1534.0	191.7	118.7	80.0	59.6	46.9	37.4	30.4	27.9	27.2
50°	2895.9	1716.1	169.5	104.1	67.9	50.8	38.7	29.9	24.1	21.6	21.6
52.5°	3514.0	2113.3	153.6	87.5	57.1	43.1	31.7	24.1	19.0	17.2	16.5
55°	4160.1	2532.3	145.3	73.6	47.6	35.6	25.4	19.0	14.6	12.7	12.0
57.5°	4781.4	2861.0	135.8	59.6	38.1	27.2	19.7	14.6	10.2	8.9	8.2
60°	5377.4	3126.9	115.5	47.6	29.9	19.7	14.6	10.2	7.0	5.7	5.7
62.5°	5910.5	3281.8	90.7	38.1	22.9	14.0	9.5	7.7	5.0	3.8	3.8
65°	5972.7	3080.6	68.5	29.2	16.5	8.9	5.7	5.7	3.8	2.5	2.5
66°	5847.6	2909.9	60.3	26.7	14.6	7.7	5.0	4.5	3.2	1.9	1.9
67.5°	5568.4	2618.5	52.1	22.9	12.0	5.7	3.8	3.8	2.5	1.3	1.3
70°	4811.3	2138.7	41.3	17.2	8.9	4.5	2.5	2.5	1.9	1.3	1.3
72.5°	3667.0	1596.8	33.6	12.7	6.3	3.2	1.9	1.9	1.9	1.3	1.3
75°	2211.7	859.9	26.0	9.5	5.7	2.5	1.3	1.9	2.5	1.9	1.3
77.5°	814.9	292.6	20.3	7.7	4.5	2.5	1.3	1.3	2.5	1.9	1.9
80°	199.9	76.2	14.6	6.3	4.5	2.5	1.3	1.3	2.5	2.5	2.5
82.5°	92.7	32.4	10.2	5.7	4.5	2.5	1.3	1.3	1.9	2.5	2.5
85°	53.3	15.2	8.2	6.3	4.5	2.5	1.3	1.3	1.9	2.5	2.5
87.5°	21.6	7.7	7.7	6.3	5.0	3.2	1.3	1.3	1.3	1.9	1.9
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)