

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: P452199

Luminaire Tested: **GALN-SA3A-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 8302 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

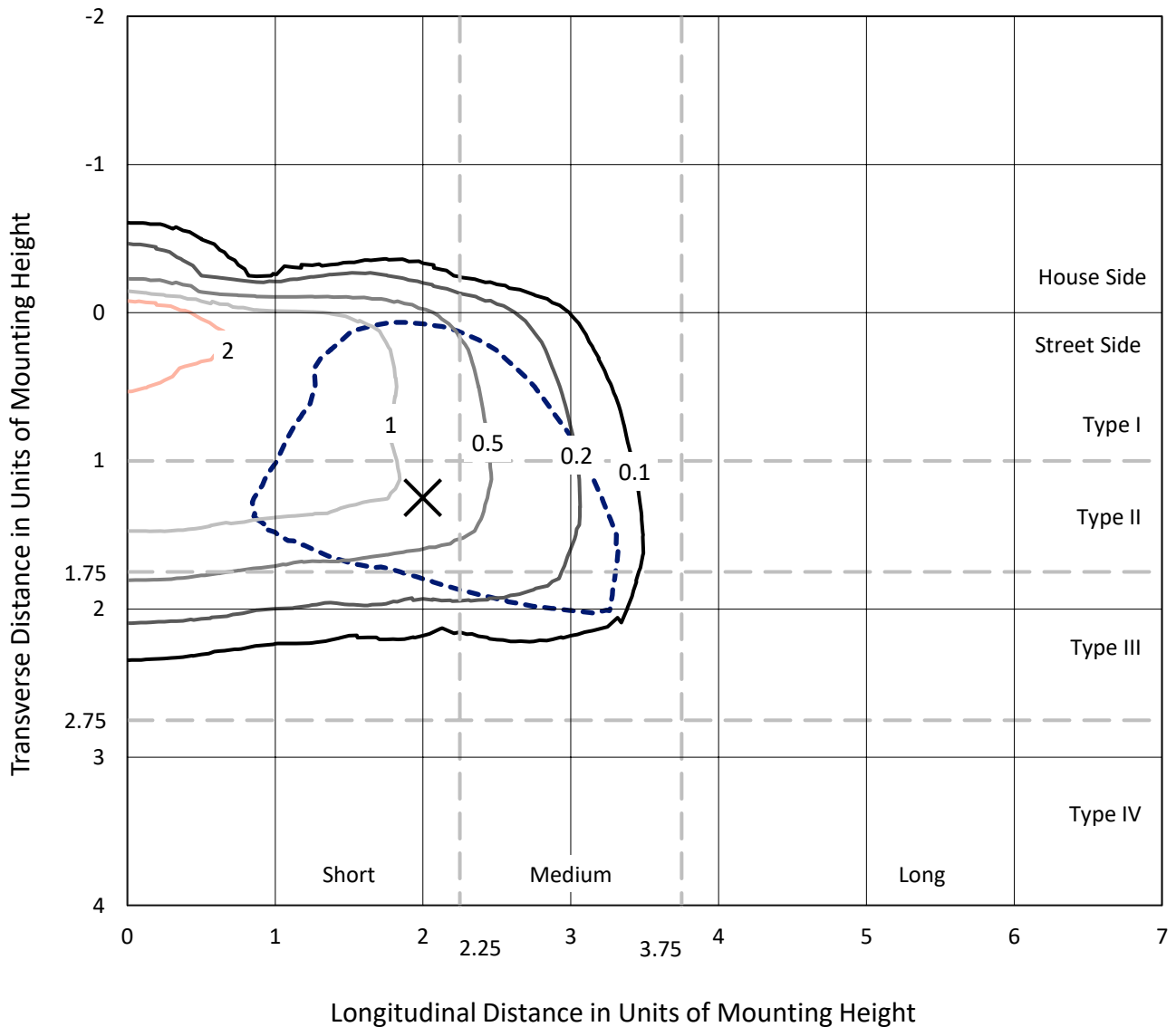
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

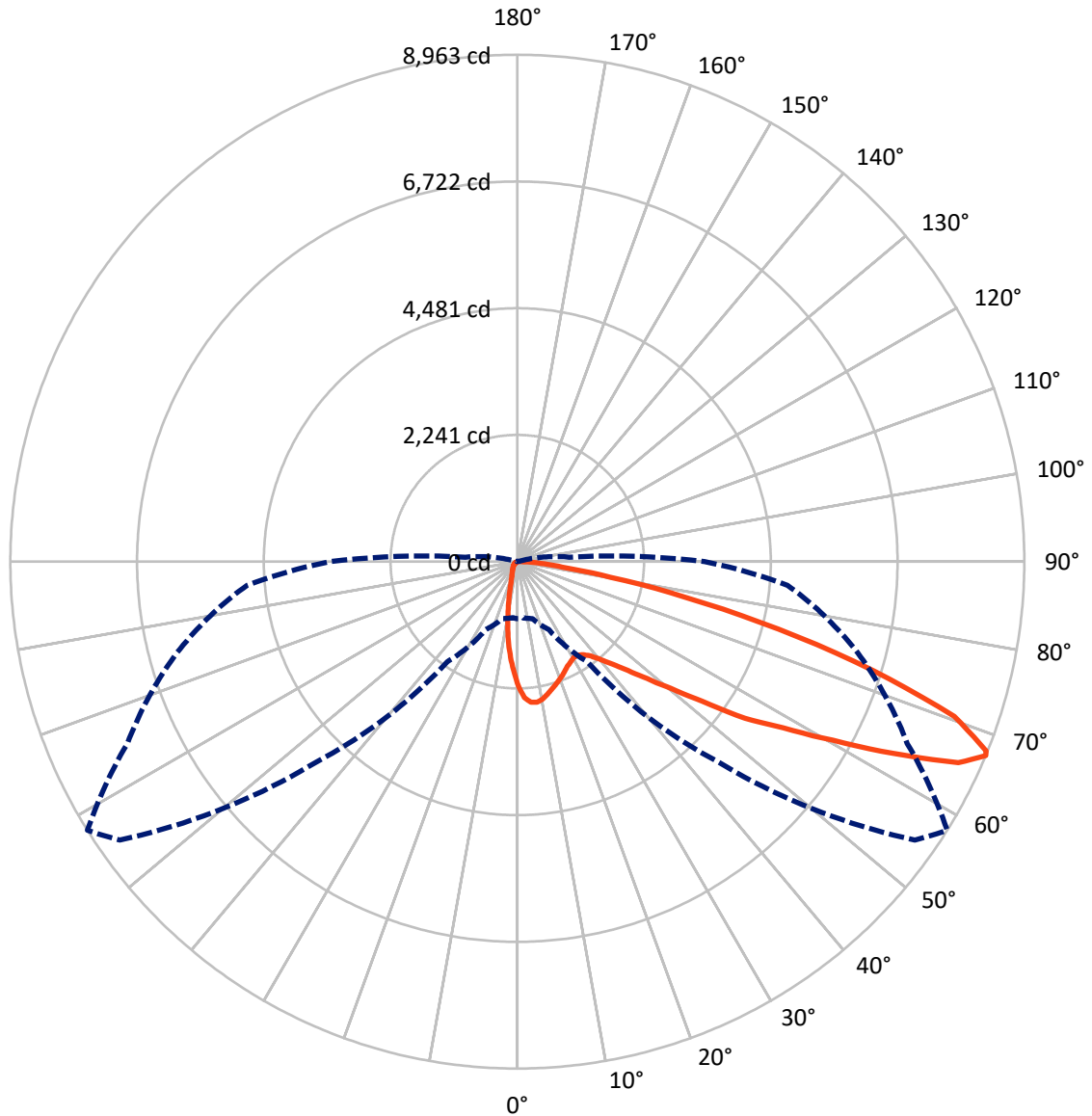
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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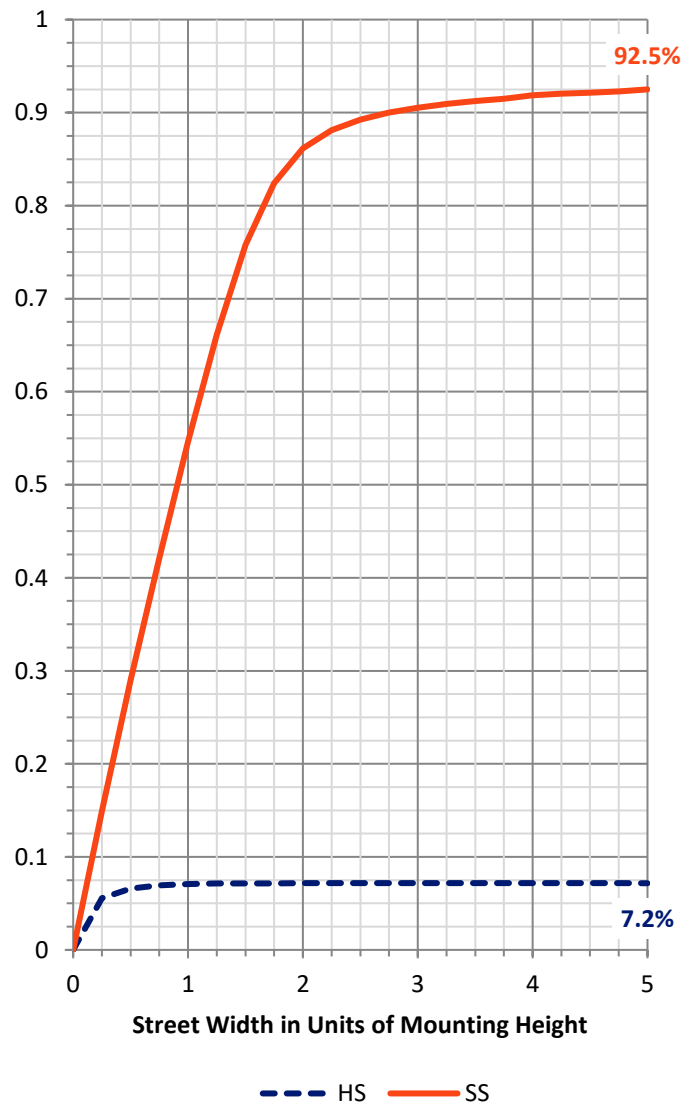
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.1	0.0	599.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7702.9	0.0	7702.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	8302.0	0.0	8302.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	2.2
10°-20°	385.7	4.6
20°-30°	522.7	6.3
30°-40°	724.9	8.7
40°-50°	1156.1	13.9
50°-60°	1998.5	24.1
60°-70°	2282.9	27.5
70°-80°	951.7	11.5
80°-90°	100.9	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°	8302.0	100.0
0°-180°	8302.0	100.0

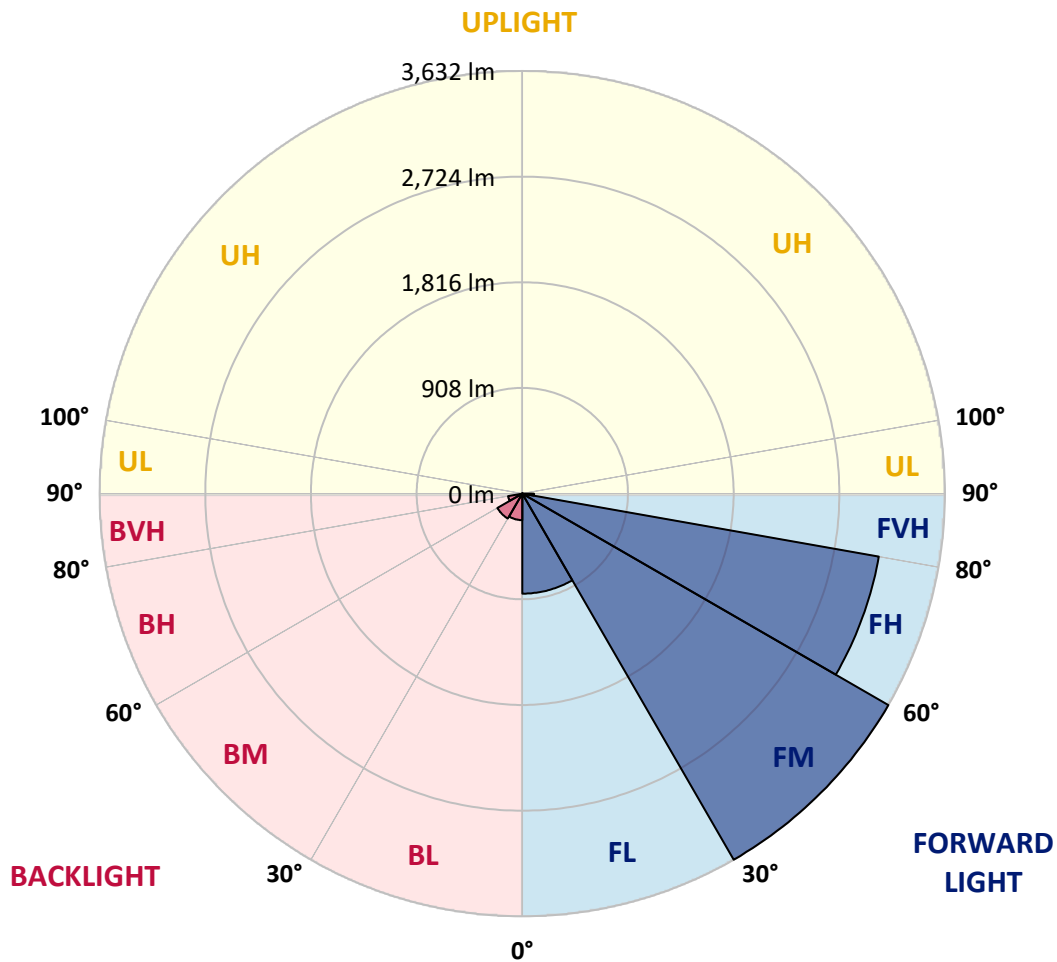


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.5	10.4			
FM (30°-60°)	3632.5	43.8			
FH (60°-80°)	3110.8	37.5			G2/5000
FVH (80°-90°)	100.2	1.2			G2/225
BL (0°-30°)	227.5	2.7	B1/500		
BM (30°-60°)	247.0	3.0	B1/1000		
BH (60°-80°)	123.9	1.5	B1/500		G1/500
BVH (80°-90°)	0.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8
2.5°	2554.2	2558.1	2543.6	2532.0	2502.0	2469.8	2427.1	2404.4	2365.6	2298.4	2224.1
5°	2614.1	2619.1	2616.9	2614.1	2602.4	2571.4	2517.0	2497.0	2439.9	2330.6	2196.3
7.5°	2480.9	2499.3	2501.5	2523.1	2543.6	2546.4	2525.9	2510.9	2458.2	2330.0	2147.0
10°	2304.5	2316.7	2334.5	2359.4	2408.8	2449.9	2469.8	2467.6	2437.1	2312.8	2089.3
12.5°	2126.4	2133.1	2160.3	2203.0	2263.5	2333.4	2386.6	2397.2	2397.7	2292.3	2041.0
15°	1973.3	1970.6	1991.6	2041.0	2125.9	2213.5	2309.0	2325.6	2352.2	2272.3	1996.1
17.5°	1842.4	1856.8	1860.2	1914.5	1992.7	2106.5	2228.0	2257.4	2310.6	2255.2	1958.9
20°	1761.4	1769.2	1776.4	1806.9	1877.4	1997.2	2152.0	2192.5	2271.8	2239.6	1917.3
22.5°	1737.5	1742.5	1736.4	1745.9	1795.8	1902.3	2069.3	2123.1	2234.6	2225.2	1883.5
25°	1755.9	1760.8	1746.4	1735.3	1752.5	1825.2	1989.4	2054.9	2204.7	2222.4	1857.9
27.5°	1800.2	1809.7	1789.7	1769.7	1759.7	1783.6	1926.7	2002.7	2184.1	2235.7	1846.3
30°	1869.6	1875.1	1860.2	1835.7	1813.0	1789.1	1894.0	1966.7	2178.6	2266.8	1845.2
32.5°	1945.0	1956.7	1948.4	1932.3	1902.9	1846.3	1903.4	1967.8	2191.9	2311.7	1859.0
35°	2038.2	2051.6	2059.3	2056.0	2018.3	1947.8	1963.3	2017.7	2227.4	2394.4	1896.8
37.5°	2129.8	2141.4	2185.3	2200.2	2166.9	2100.4	2079.8	2115.9	2305.6	2502.6	1965.0
40°	2234.6	2250.2	2311.7	2368.9	2352.8	2282.9	2245.2	2275.1	2425.5	2665.7	2094.3
42.5°	2335.0	2362.8	2456.5	2557.5	2572.5	2494.3	2469.3	2479.3	2603.0	2900.4	2274.6
45°	2477.6	2503.7	2624.6	2761.7	2832.1	2771.1	2745.6	2743.9	2846.5	3230.4	2566.9
47.5°	2683.4	2706.7	2849.3	2984.7	3110.1	3118.4	3070.1	3086.8	3152.8	3616.6	2925.3
50°	2935.9	2990.8	3084.5	3225.4	3393.0	3528.4	3543.3	3521.1	3577.7	4063.7	3355.8
52.5°	3302.6	3323.6	3409.6	3525.6	3722.0	3951.6	4129.7	4099.2	4081.5	4489.8	3790.8
55°	3576.1	3604.4	3738.1	3897.3	4185.2	4488.1	4874.2	4884.8	4660.6	4899.2	4216.3
57.5°	3493.4	3536.7	3739.2	4059.3	4692.3	5245.9	5533.3	5540.5	5196.6	5297.0	4696.7
60°	3069.0	3089.5	3379.7	3806.9	4735.5	6067.0	6468.1	6409.8	5741.9	5741.9	5121.1
62.5°	2176.4	2208.6	2443.8	3072.3	4276.7	6352.1	7587.6	7467.2	6493.1	6167.4	5374.1
65°	1390.8	1359.7	1515.6	1939.5	3186.1	5931.1	8562.4	8569.6	7199.8	6337.7	5235.9
67°	1007.5	995.3	1040.2	1325.9	2160.3	4985.7	8582.9	8962.9	7605.9	6230.1	4794.3
67.5°	921.5	930.9	963.6	1196.1	1962.8	4536.9	8489.7	8939.6	7697.5	6165.2	4634.6
70°	698.5	682.4	717.9	846.0	1176.7	2862.1	7303.0	8199.0	7583.7	5521.1	3703.1
72.5°	513.7	512.1	561.4	691.8	905.9	1524.5	5482.3	6574.1	6195.7	4204.1	2331.7
75°	346.7	362.3	441.0	578.1	821.1	988.6	3737.5	4769.4	4301.2	2387.2	953.1
77.5°	197.5	198.6	284.0	464.3	737.3	795.5	2214.7	3038.5	2276.8	793.9	282.9
80°	85.4	93.8	140.9	337.3	611.4	704.6	1269.9	1669.9	920.9	168.1	91.5
82.5°	31.6	37.2	62.1	207.5	446.0	580.3	767.3	797.2	312.3	59.4	57.1
85°	0.0	1.1	22.7	97.1	232.4	259.1	512.6	472.7	138.1	28.3	37.2
87.5°	0.0	0.0	0.0	10.0	30.5	96.5	159.2	177.5	33.3	10.0	8.9
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°	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8	2200.8
2.5°	2184.1	2148.1	2057.7	1967.2	1900.1	1844.1	1759.7	1713.7	1689.3	1653.2	1655.4
5°	2129.2	2056.0	1896.8	1732.0	1598.9	1469.0	1313.7	1251.0	1198.3	1168.4	1148.4
7.5°	2047.7	1939.5	1703.7	1484.0	1279.3	1052.4	882.1	768.4	691.8	663.5	636.3
10°	1958.3	1814.7	1507.9	1203.3	919.3	685.1	540.9	436.6	399.4	365.0	368.4
12.5°	1875.7	1700.9	1328.1	949.8	644.1	435.5	339.5	296.8	284.6	280.7	280.7
15°	1808.0	1592.2	1135.1	714.0	441.6	312.9	271.8	260.2	255.8	254.6	254.6
17.5°	1735.9	1489.0	960.9	527.6	321.2	261.9	248.0	240.2	238.6	237.4	237.4
20°	1671.5	1385.3	795.5	392.8	259.6	235.8	226.9	221.9	220.2	219.1	219.7
22.5°	1610.5	1293.2	640.2	296.8	228.6	214.7	205.8	200.8	197.5	194.7	195.3
25°	1556.1	1204.4	514.8	243.0	205.8	193.6	184.7	177.5	170.3	167.0	166.4
27.5°	1517.9	1126.7	401.1	208.0	185.3	172.0	160.9	152.0	142.6	137.6	136.5
30°	1486.2	1048.0	317.3	183.6	164.8	152.0	138.1	125.4	115.4	110.4	108.2
32.5°	1465.7	973.1	250.2	163.7	147.6	132.0	116.5	103.7	92.6	87.7	86.5
35°	1462.4	910.4	204.7	147.0	132.0	115.4	99.3	85.4	76.0	71.0	69.9
37.5°	1486.2	862.1	171.4	133.7	119.3	101.0	83.2	70.5	62.1	58.3	57.7
40°	1550.0	831.6	148.7	122.6	107.6	87.7	71.0	59.9	51.6	47.7	47.7
42.5°	1671.5	832.7	133.7	112.1	96.0	74.9	60.5	49.9	42.7	39.4	38.3
45°	1861.3	870.4	120.9	101.5	84.9	64.9	51.6	41.1	33.8	31.1	31.1
47.5°	2115.3	945.3	109.8	91.0	74.9	55.5	43.8	33.3	27.2	24.4	24.4
50°	2447.7	1065.7	100.4	82.1	66.6	47.7	35.5	27.2	21.1	18.9	18.3
52.5°	2794.9	1214.4	89.3	74.3	57.1	40.5	28.8	21.1	16.1	14.4	13.9
55°	3178.3	1359.7	78.8	66.6	46.6	33.8	22.7	16.6	11.7	10.0	10.0
57.5°	3565.0	1502.3	66.0	55.5	36.6	25.0	17.8	12.2	7.8	6.1	6.1
60°	3892.3	1548.4	56.0	44.9	27.7	17.8	12.8	7.8	4.4	2.8	2.8
62.5°	3937.2	1393.0	47.2	34.4	20.0	12.2	6.7	4.4	1.7	1.1	1.1
65°	3693.1	1131.7	39.4	26.1	13.3	6.1	2.8	1.7	0.6	0.0	0.0
67°	3309.2	917.6	32.2	19.4	9.4	3.9	1.7	0.6	0.0	0.0	0.0
67.5°	3211.0	874.9	31.1	18.3	8.3	3.3	1.1	0.6	0.0	0.0	0.0
70°	2519.8	655.2	22.2	11.1	5.0	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	1566.1	370.6	16.1	6.7	3.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	591.9	129.8	11.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	184.2	49.4	6.7	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	62.1	18.9	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.3	7.8	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.9	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	1.1	0.6	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)