

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: P452057

Luminaire Tested: **GALN-SA3A-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11175 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

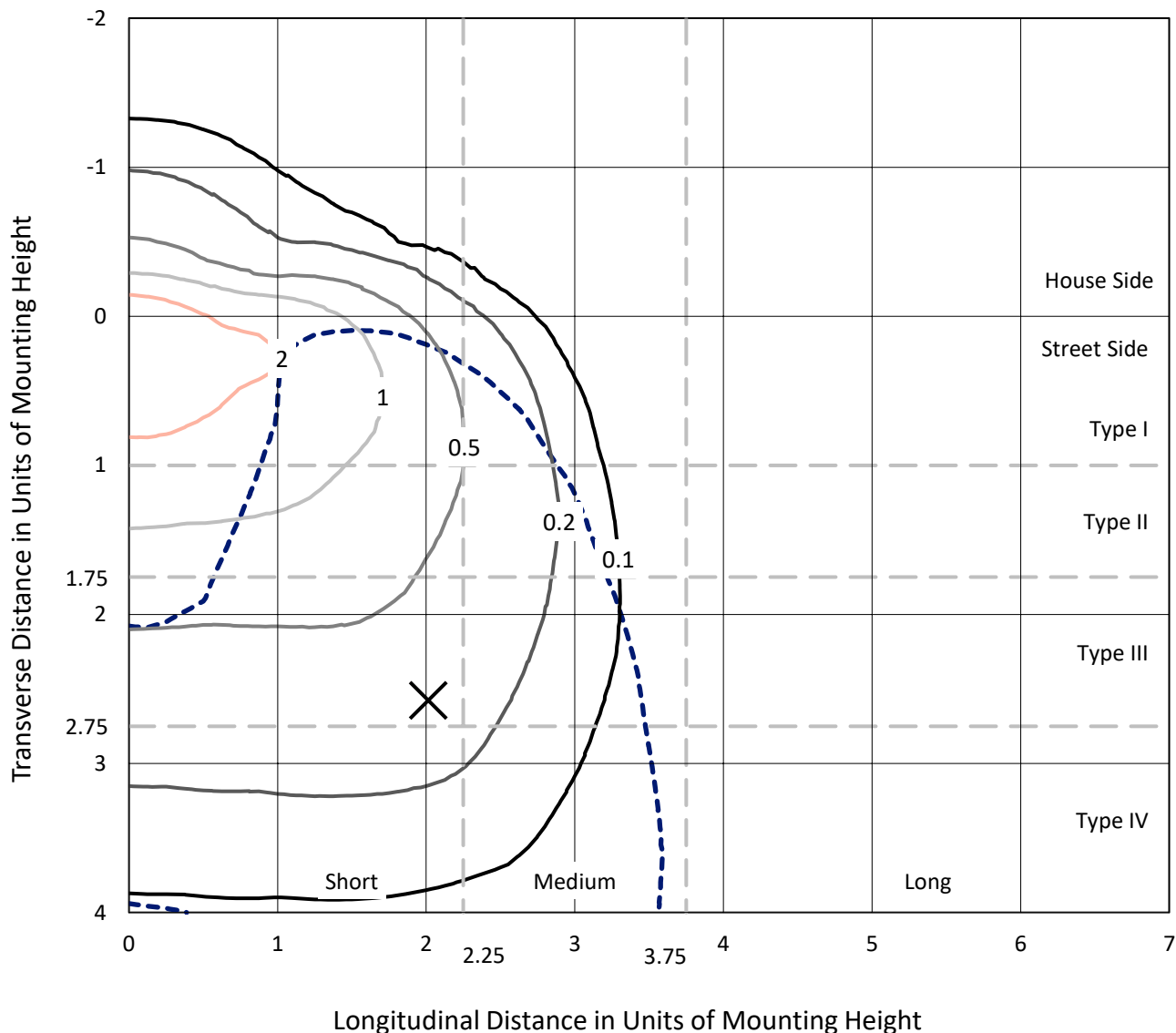
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

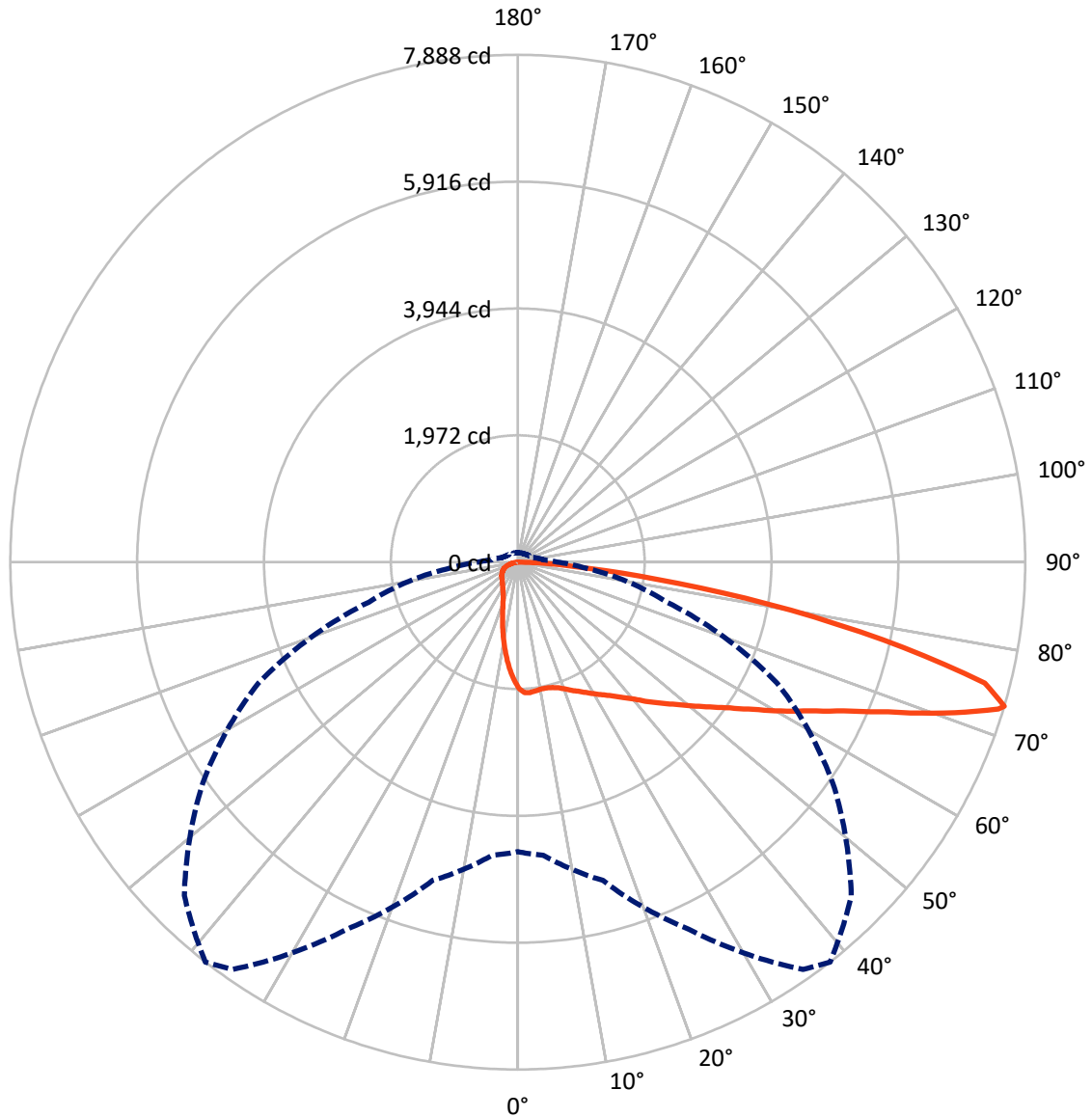
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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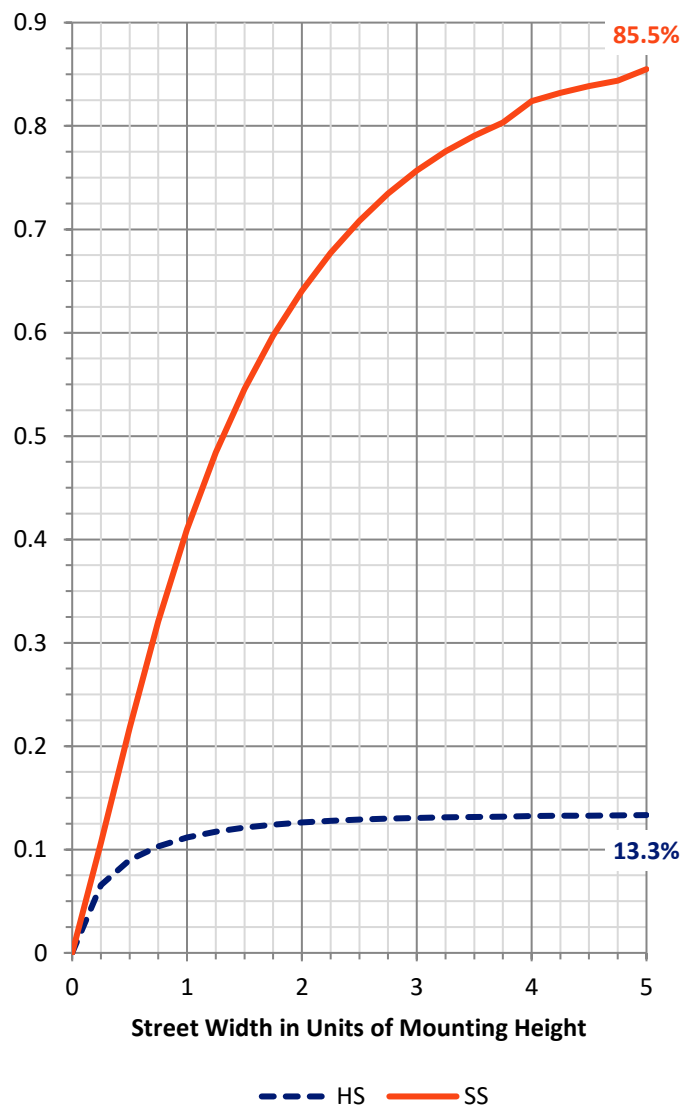
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.3	0.0	1502.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9672.7	0.0	9672.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	11175.0	0.0	11175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.5
10°-20°	439.5	3.9
20°-30°	684.3	6.1
30°-40°	1003.7	9.0
40°-50°	1488.9	13.3
50°-60°	2109.5	18.9
60°-70°	2676.0	23.9
70°-80°	2227.5	19.9
80°-90°	374.3	3.3
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°	11175.0	100.0
0°-180°	11175.0	100.0

Coefficient of Utilization



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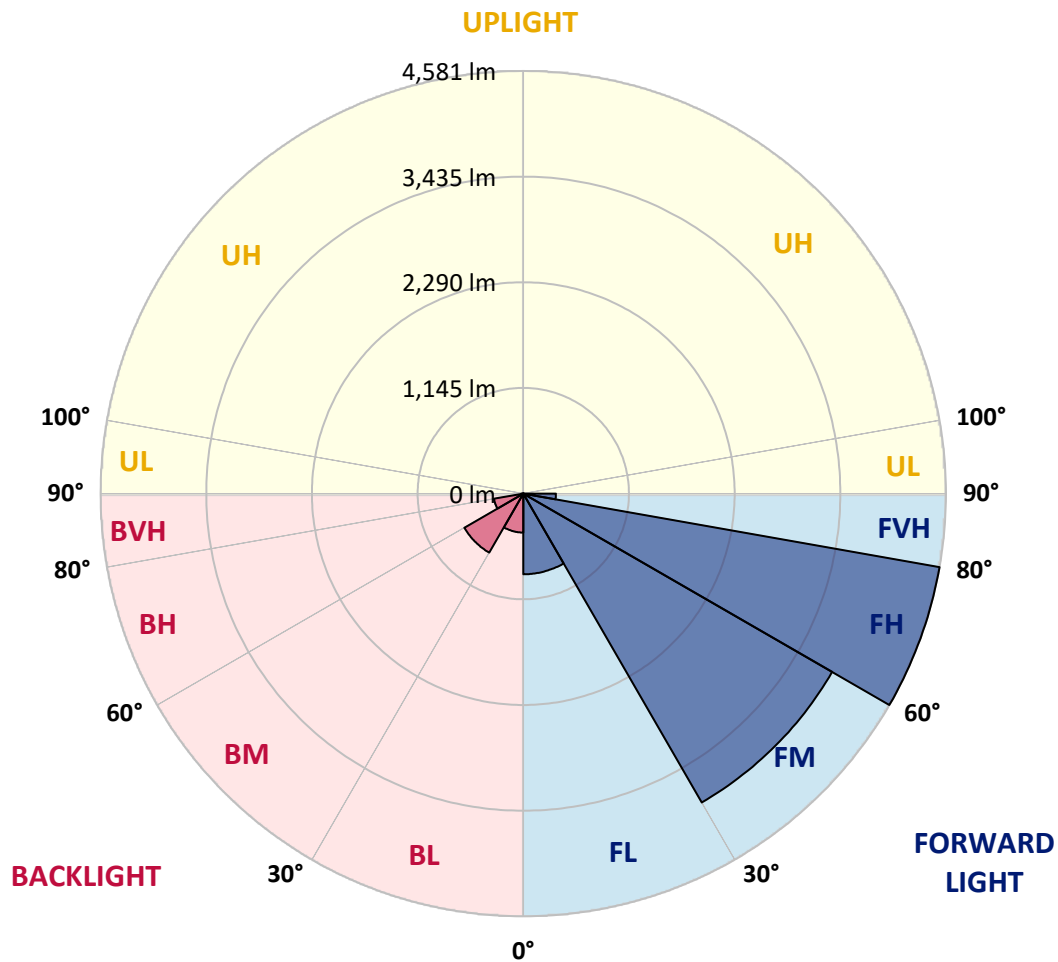
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.6	7.8			
FM (30°-60°)	3864.6	34.6			
FH (60°-80°)	4580.6	41.0			G2/5000
FVH (80°-90°)	354.0	3.2			G3/500
BL (0°-30°)	421.5	3.8	B1/500		
BM (30°-60°)	737.5	6.6	B1/1000		
BH (60°-80°)	322.9	2.9	B1/500		G1/500
BVH (80°-90°)	20.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3
2.5°	2042.1	2052.2	2047.2	2040.2	2035.8	2031.4	2025.1	2006.8	1992.3	1976.5	1951.9
5°	2057.3	2063.6	2059.2	2050.3	2040.2	2035.8	2023.8	1999.9	1976.5	1950.0	1913.4
7.5°	2048.5	2051.0	2045.9	2035.2	2026.4	2018.2	2004.3	1977.8	1949.4	1917.2	1869.2
10°	2016.9	2026.4	2026.4	2017.5	2008.7	2004.3	1990.4	1965.2	1939.3	1902.7	1845.9
12.5°	1991.0	2001.1	2009.3	2006.8	2006.2	2006.2	1995.4	1976.5	1946.2	1911.5	1844.0
15°	1973.4	1985.3	2003.0	2013.1	2019.4	2021.3	2016.9	2000.5	1969.6	1929.2	1851.6
17.5°	1969.6	1984.1	2016.3	2038.4	2054.8	2054.1	2052.9	2030.2	1996.1	1954.4	1861.0
20°	1986.6	2005.5	2050.3	2085.1	2109.0	2104.6	2097.7	2068.0	2028.3	1981.6	1869.9
22.5°	2037.7	2057.3	2106.5	2144.4	2167.7	2167.7	2146.9	2107.8	2065.5	2013.1	1881.9
25°	2110.9	2132.4	2184.8	2223.3	2234.0	2225.8	2205.0	2157.6	2109.0	2058.5	1907.1
27.5°	2200.5	2226.4	2275.0	2307.2	2304.0	2297.7	2276.3	2215.7	2167.1	2121.0	1950.0
30°	2312.2	2331.2	2381.7	2389.2	2377.9	2376.6	2346.3	2285.7	2240.3	2205.0	2011.2
32.5°	2417.6	2434.7	2475.1	2478.2	2458.0	2460.5	2432.1	2376.6	2350.7	2338.1	2114.1
35°	2529.3	2538.2	2572.9	2569.1	2555.8	2553.9	2542.6	2489.6	2497.8	2520.5	2259.9
37.5°	2622.7	2640.4	2660.0	2663.1	2662.5	2668.8	2676.4	2651.1	2698.5	2769.8	2451.1
40°	2708.6	2723.7	2752.7	2762.8	2787.4	2800.1	2825.9	2826.6	2935.7	3053.1	2686.5
42.5°	2766.6	2792.5	2846.8	2865.1	2925.0	2962.9	3001.4	3042.4	3200.8	3351.6	2964.1
45°	2817.1	2851.2	2941.4	2998.2	3079.6	3125.7	3207.1	3292.9	3520.7	3718.3	3246.2
47.5°	2893.5	2923.7	3027.2	3127.6	3250.6	3303.7	3425.4	3553.6	3851.4	4067.9	3516.3
50°	2999.5	3017.8	3123.2	3286.6	3443.7	3511.9	3672.8	3857.7	4204.8	4413.1	3753.6
52.5°	3135.2	3142.7	3226.7	3444.4	3651.4	3735.9	3949.2	4165.1	4514.0	4712.8	3941.7
55°	3295.4	3282.8	3348.5	3611.6	3888.7	3999.1	4228.2	4476.2	4861.8	4955.2	4078.6
57.5°	3453.8	3434.3	3486.7	3814.8	4181.5	4314.6	4581.6	4796.8	5172.2	5181.7	4174.5
60°	3621.7	3607.2	3669.7	4053.4	4540.5	4698.3	4945.1	5129.3	5472.6	5339.5	4189.7
62.5°	3794.0	3770.6	3859.6	4321.6	4945.1	5088.3	5327.5	5482.7	5767.3	5398.2	4043.9
65°	3961.2	3950.5	4088.1	4640.3	5405.7	5568.6	5800.8	5906.2	6003.4	5309.8	3682.3
67.5°	4139.2	4160.6	4380.3	5065.6	6006.5	6211.0	6461.5	6362.4	6070.9	4891.4	3101.1
70°	4410.5	4424.4	4763.9	5622.8	6780.8	7027.6	7148.8	6524.6	5745.3	4096.9	2331.2
72.5°	4527.3	4588.5	5106.6	6207.8	7660.6	7811.4	7379.7	6163.0	4786.0	2783.0	1224.9
73°	4501.4	4574.6	5122.4	6296.8	7729.3	7887.7	7330.5	5976.9	4449.0	2396.8	1050.1
75°	4178.9	4269.2	4917.3	6222.3	7595.6	7500.9	6539.1	5094.0	3006.4	1089.9	478.4
77.5°	3297.3	3323.2	3896.2	5024.6	5981.3	5805.8	4893.9	3183.7	1228.1	405.1	271.4
80°	1654.0	1749.3	2196.1	2878.3	3999.7	3942.3	3089.1	1505.7	511.8	237.9	179.9
82.5°	795.8	863.3	1069.7	1403.5	2210.0	2157.6	1529.7	822.9	325.0	138.8	106.0
85°	512.4	562.9	680.9	669.6	908.7	867.7	687.2	622.9	192.5	72.6	73.8
87.5°	338.3	370.4	444.3	355.3	330.7	299.1	303.5	350.9	37.9	27.8	10.1
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°	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3	1963.3
2.5°	1941.8	1933.6	1906.5	1880.0	1854.7	1830.7	1815.0	1794.1	1780.2	1784.0	1789.7
5°	1893.2	1874.9	1826.9	1780.2	1736.1	1683.7	1641.4	1607.3	1581.5	1572.0	1570.1
7.5°	1842.1	1811.2	1742.4	1662.2	1587.1	1522.1	1447.0	1409.8	1366.3	1351.1	1346.1
10°	1811.2	1769.5	1673.0	1561.3	1448.3	1340.4	1259.0	1192.7	1132.8	1121.4	1115.7
12.5°	1802.3	1747.4	1617.4	1473.5	1323.4	1190.8	1070.3	983.2	925.1	911.9	892.3
15°	1797.3	1729.1	1565.7	1385.2	1194.6	1033.1	906.2	804.6	751.6	716.3	716.9
17.5°	1792.9	1708.3	1507.6	1288.6	1083.5	897.4	757.3	665.8	617.2	598.3	596.4
20°	1786.6	1683.7	1440.7	1187.0	956.7	773.7	646.8	578.7	545.9	530.1	529.5
22.5°	1784.0	1659.7	1375.1	1083.5	844.4	678.4	573.6	525.7	504.9	494.1	494.1
25°	1790.3	1642.7	1306.3	985.1	744.7	597.0	523.2	490.3	478.4	472.7	470.8
27.5°	1809.9	1635.1	1238.2	886.7	653.2	541.5	489.1	466.4	457.5	453.1	453.7
30°	1847.1	1634.5	1171.3	789.5	585.0	499.2	461.9	446.2	439.2	436.7	436.1
32.5°	1907.1	1648.4	1105.6	709.3	527.6	463.8	436.7	425.3	422.2	420.3	419.7
35°	2008.7	1687.5	1040.6	636.1	483.4	432.3	412.7	407.0	402.6	404.5	405.1
37.5°	2145.6	1755.0	978.8	578.7	450.0	408.9	392.5	387.5	385.0	386.8	388.7
40°	2329.3	1852.2	927.0	532.6	426.0	389.4	374.9	370.4	367.9	371.1	371.7
42.5°	2531.9	1964.5	884.1	496.7	406.4	373.0	359.1	354.0	352.1	354.0	354.7
45°	2740.1	2095.2	862.0	470.8	390.0	361.0	346.5	340.8	336.4	335.1	337.0
47.5°	2945.2	2208.7	861.4	455.0	376.7	350.2	334.5	328.2	322.5	319.3	318.7
50°	3112.4	2299.0	876.6	448.1	365.4	338.3	322.5	316.2	308.6	302.3	303.5
52.5°	3238.7	2357.7	883.5	444.9	359.1	325.6	309.9	304.2	295.3	287.1	287.1
55°	3320.1	2371.6	866.5	441.7	354.0	312.4	295.3	290.3	281.5	273.3	273.3
57.5°	3347.8	2328.6	805.2	434.2	349.0	301.0	280.8	276.4	269.5	261.3	260.0
60°	3283.5	2183.5	698.0	411.5	338.9	289.0	265.0	263.2	260.6	253.7	253.1
62.5°	3035.4	1875.5	581.2	381.8	321.8	276.4	250.5	253.7	255.6	251.8	251.2
65°	2622.7	1522.8	496.7	340.8	299.1	258.7	234.8	243.0	248.0	248.0	246.7
67.5°	2127.3	1169.4	418.4	305.4	270.7	234.8	217.1	223.4	227.2	225.9	229.1
70°	1512.0	792.0	340.8	265.0	234.8	207.6	194.4	194.4	191.8	190.6	190.6
72.5°	733.3	452.5	276.4	221.5	200.0	177.3	166.6	162.2	157.1	156.5	153.3
73°	612.8	405.8	263.8	213.3	191.8	172.9	160.9	154.0	150.8	148.3	147.7
75°	373.0	308.0	220.2	179.9	163.4	148.9	138.2	131.9	128.7	126.8	126.2
77.5°	245.5	229.7	171.0	137.6	125.0	116.1	111.7	105.4	103.5	101.0	101.0
80°	183.0	175.4	122.4	97.2	89.6	82.0	80.8	79.5	74.5	71.3	70.0
82.5°	118.0	125.0	83.3	65.0	56.8	50.5	51.1	53.0	48.0	43.5	42.3
85°	83.9	90.2	50.5	29.7	24.0	20.8	23.3	20.8	21.5	17.0	13.9
87.5°	13.9	24.0	8.8	3.8	1.9	1.3	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)