

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: P528893

Luminaire Tested: **GALN-SA4A-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9839 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

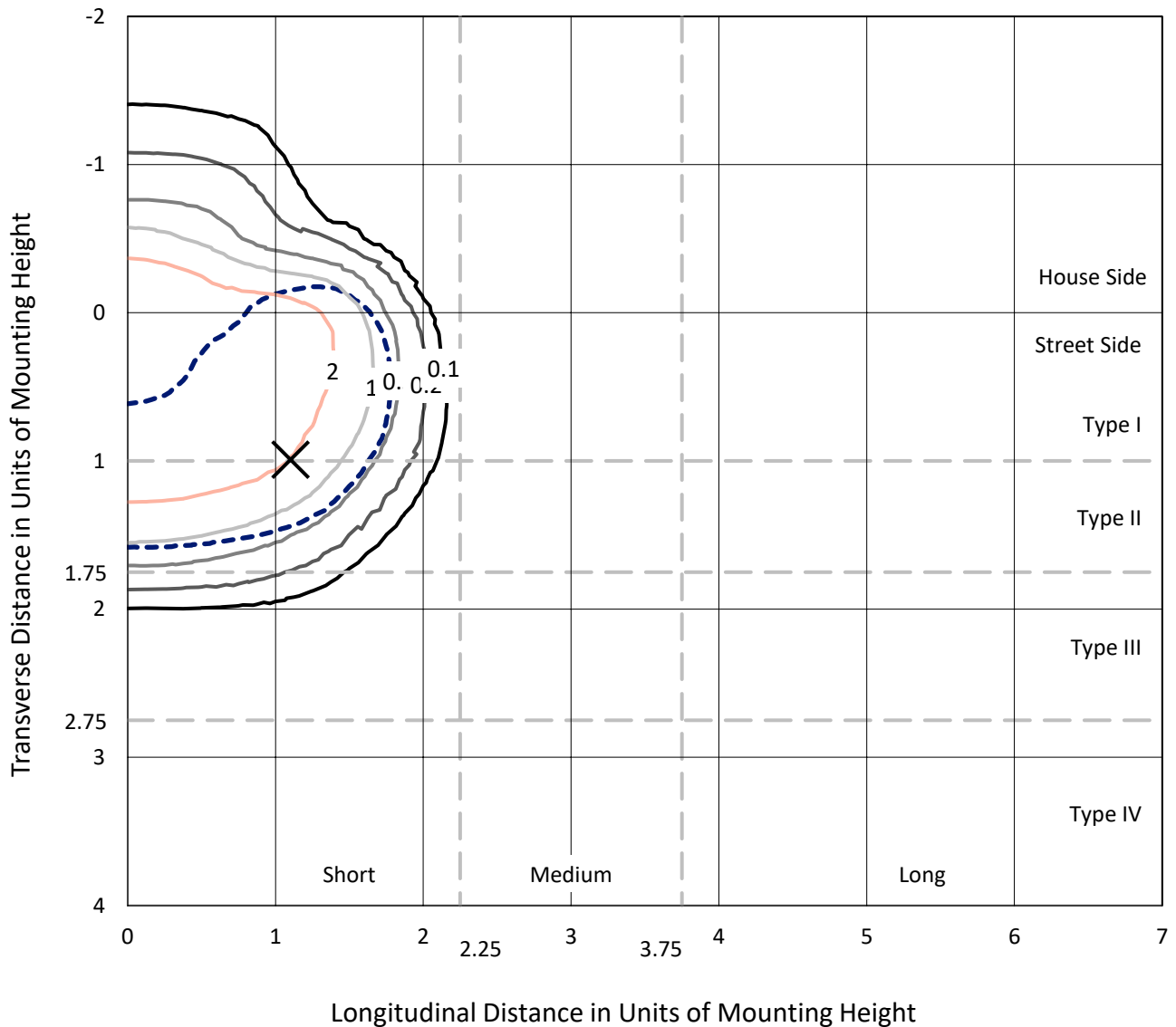
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528893
 CATALOG NUMBER: GALN-SA4A-730-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

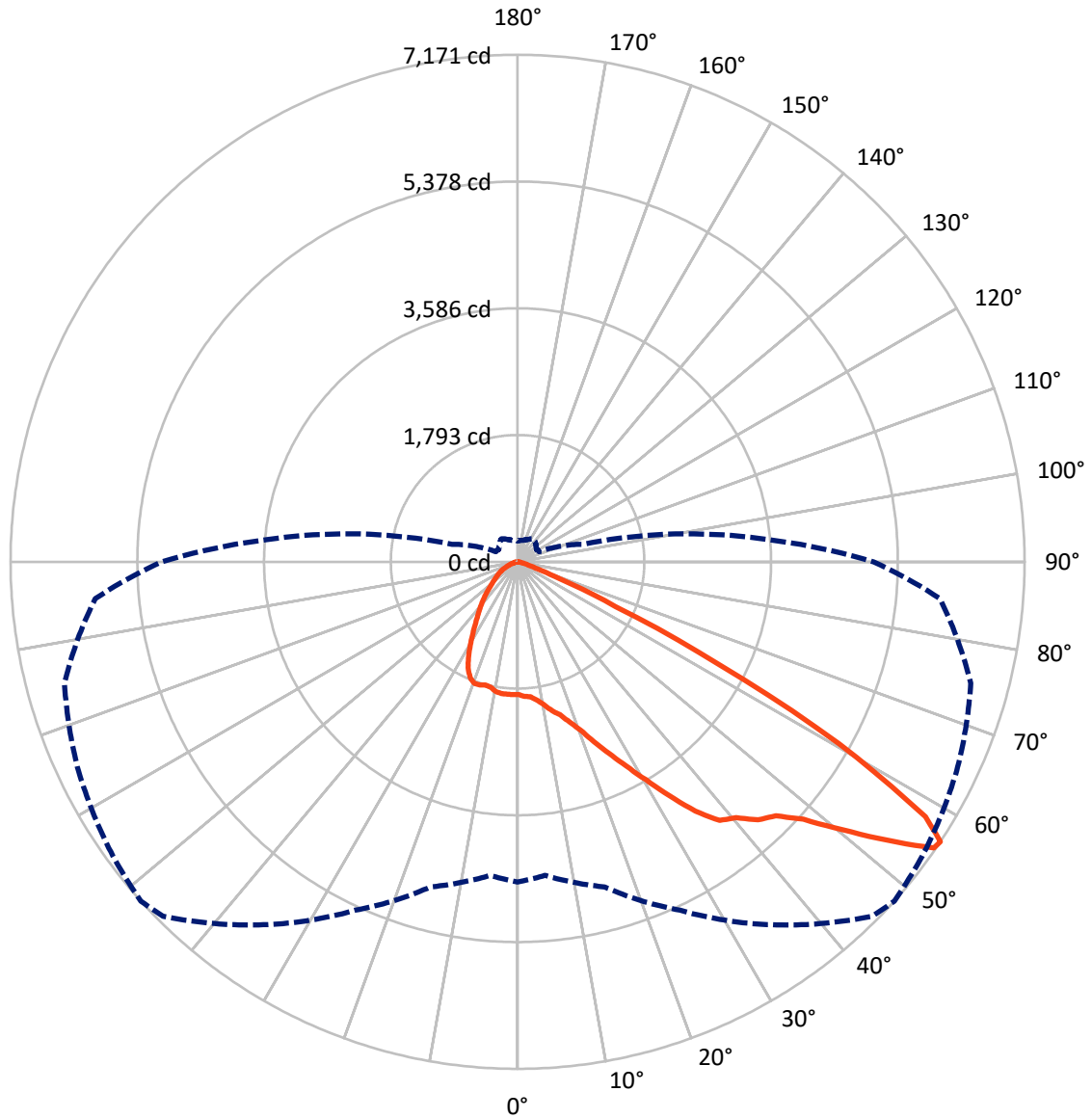
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P528893
CATALOG NUMBER: GALN-SA4A-730-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P528893
 CATALOG NUMBER: GALN-SA4A-730-U-T3-GRSBK

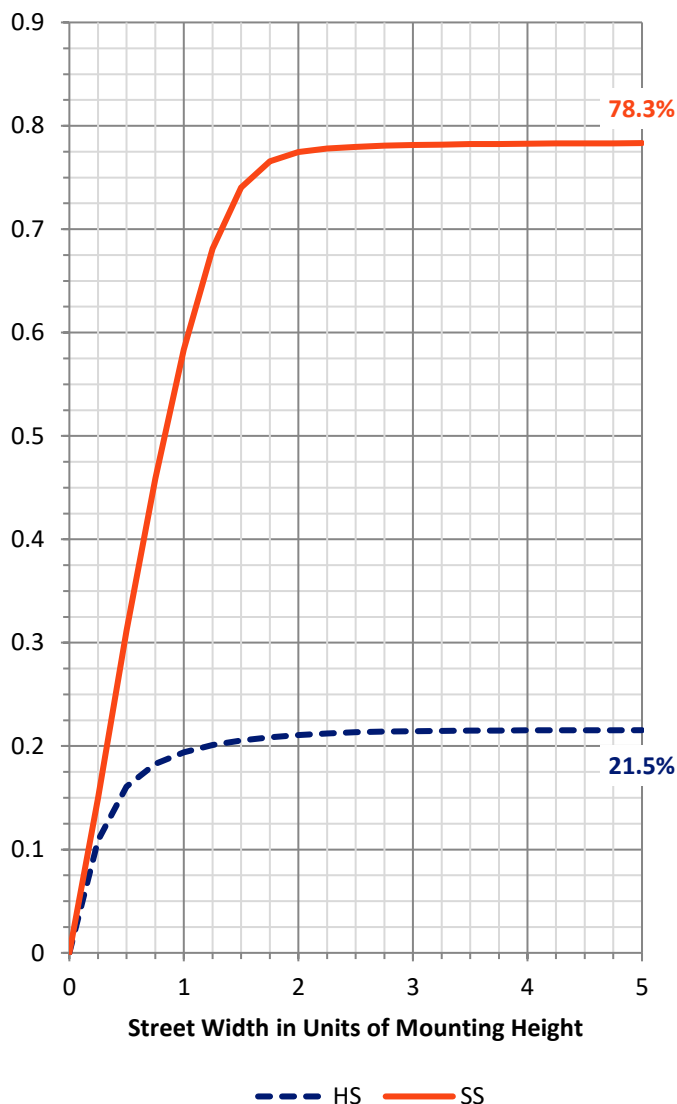
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2139.8	0.0	2139.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7699.2	0.0	7699.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	9839.0	0.0	9839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	1.9
10°-20°	585.0	5.9
20°-30°	1061.1	10.8
30°-40°	1666.8	16.9
40°-50°	2431.6	24.7
50°-60°	2929.6	29.8
60°-70°	857.8	8.7
70°-80°	108.8	1.1
80°-90°	15.3	0.2
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°	9839.0	100.0
0°-180°	9839.0	100.0

Coefficient of Utilization

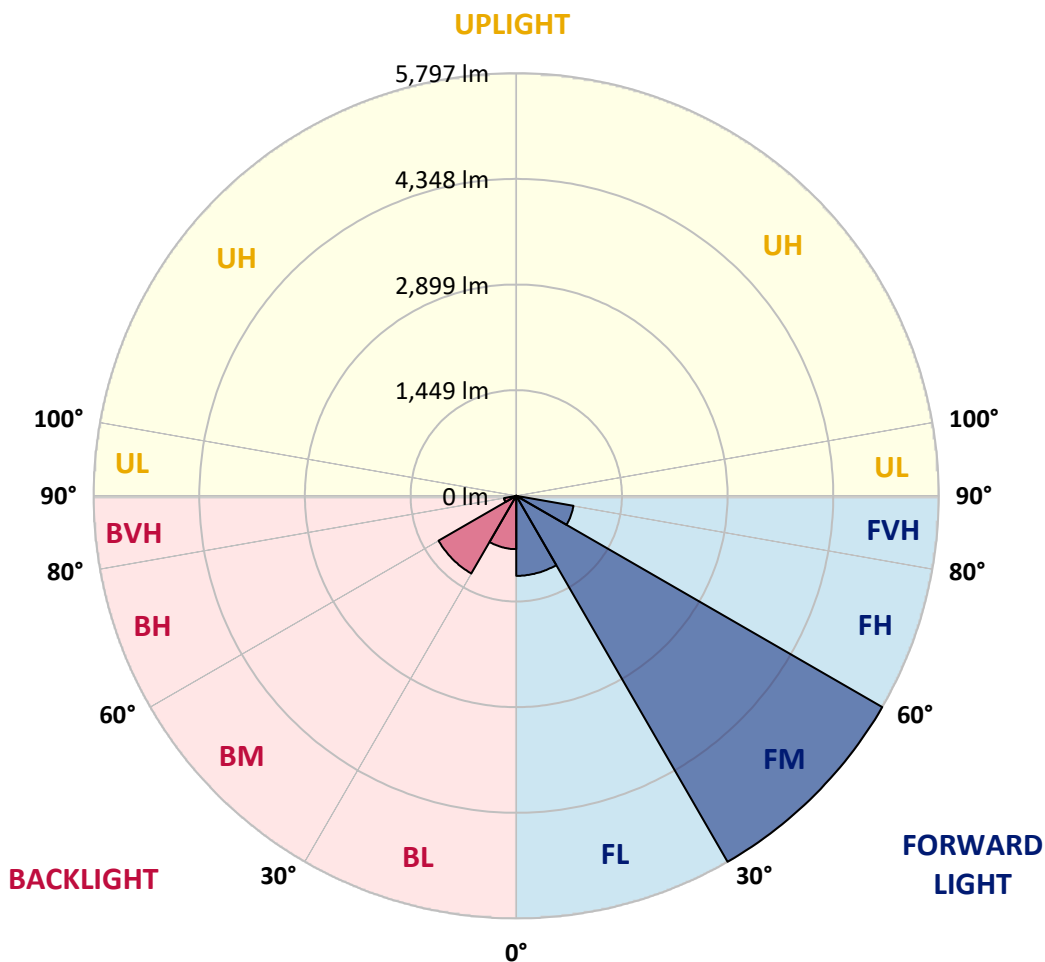


REPORT NUMBER: P528893
 CATALOG NUMBER: GALN-SA4A-730-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.8	11.2			
FM (30°-60°)	5797.2	58.9			
FH (60°-80°)	796.5	8.1			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	731.4	7.4	B2/1000		
BM (30°-60°)	1230.8	12.5	B2/2500		
BH (60°-80°)	170.0	1.7	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P528893

CATALOG NUMBER: GALN-SA4A-730-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3
2.5°	1913.3	1904.3	1904.3	1890.0	1906.1	1899.0	1904.3	1886.4	1904.3	1877.5	1899.0
5°	1922.2	1924.0	1916.9	1925.8	1925.8	1936.6	1918.7	1934.8	1943.7	1924.0	1915.1
7.5°	1968.8	1972.4	1970.6	1963.5	1977.8	1976.0	1974.2	1961.7	1965.2	1958.1	1947.3
10°	2060.2	2058.4	2067.4	2049.4	2038.7	2051.2	2054.8	2035.1	2020.8	2015.4	1981.4
12.5°	2192.8	2171.3	2158.7	2140.8	2146.2	2128.3	2160.5	2126.5	2119.3	2087.1	2053.0
15°	2300.2	2296.7	2298.5	2269.8	2237.5	2244.7	2244.7	2226.8	2216.0	2176.6	2128.3
17.5°	2520.6	2445.4	2461.5	2425.7	2398.8	2397.0	2380.9	2384.4	2355.8	2273.4	2199.9
20°	2692.6	2660.3	2635.3	2574.3	2533.1	2545.7	2538.5	2520.6	2511.6	2404.2	2300.2
22.5°	2846.6	2857.4	2816.2	2800.1	2742.7	2748.1	2762.4	2746.3	2678.2	2567.2	2413.1
25°	3063.4	3050.9	2995.3	2975.6	2921.9	2941.6	2997.1	2984.6	2941.6	2741.0	2500.9
27.5°	3319.6	3276.6	3287.3	3197.8	3145.8	3201.4	3267.6	3330.3	3208.5	2945.2	2604.8
30°	3500.5	3455.7	3452.2	3448.6	3436.0	3500.5	3577.6	3634.9	3536.4	3149.4	2776.8
32.5°	3590.1	3600.9	3631.3	3620.6	3729.8	3862.4	3943.0	4025.4	3901.8	3482.6	3004.3
35°	3828.4	3760.3	3828.4	3835.5	3948.4	4229.7	4331.8	4528.8	4498.4	3953.8	3282.0
37.5°	3968.1	3962.7	3971.7	4039.8	4149.0	4496.6	4641.7	4794.0	4736.6	4236.8	3627.7
40°	4199.2	4213.5	4211.7	4263.7	4383.7	4697.2	4756.4	4880.0	4885.3	4629.2	4136.5
42.5°	4570.0	4512.7	4475.1	4528.8	4697.2	4871.0	4989.2	4964.2	5141.5	5105.7	4790.4
45°	4903.3	4937.3	4881.8	4971.3	5032.2	5125.4	5121.8	5175.6	5401.3	5571.5	5283.0
47.5°	5215.0	5236.5	5263.3	5324.3	5456.8	5471.2	5440.7	5417.4	5729.1	5904.7	5664.6
50°	5401.3	5421.0	5546.4	5655.7	5902.9	5935.1	5953.1	5893.9	6105.3	6125.0	6024.7
52.5°	5351.1	5372.6	5548.2	5908.3	6302.4	6598.0	6544.2	6443.9	6431.4	6508.4	6357.9
55°	4906.8	4887.1	5129.0	5689.7	6427.8	7137.2	7144.4	7038.7	6836.3	6784.3	6307.8
56°	4528.8	4451.8	4759.9	5437.1	6266.6	7090.6	7171.3	7058.4	6868.5	6635.6	5997.8
57.5°	3710.1	3783.6	4089.9	4650.7	5709.4	6755.6	6802.2	6775.3	6632.0	6241.5	5277.7
60°	2045.9	2174.8	2445.4	3131.5	4064.8	5184.5	5222.1	5440.7	5467.6	4779.6	3631.3
62.5°	868.9	854.5	1135.8	1641.0	2314.6	3129.7	3199.6	3423.5	3464.7	2755.3	1821.9
65°	352.9	372.6	514.2	825.9	1223.6	1426.0	1524.5	1598.0	1734.1	1137.6	671.8
67.5°	232.9	231.1	302.8	471.2	659.3	636.0	636.0	671.8	621.6	464.0	290.2
70°	166.6	172.0	216.8	326.0	410.2	304.6	292.0	279.5	317.1	306.3	234.7
72.5°	109.3	116.4	145.1	195.3	213.2	166.6	166.6	200.6	261.6	247.2	191.7
75°	71.7	73.5	89.6	112.9	105.7	86.0	94.9	134.4	189.9	182.7	136.2
77.5°	48.4	50.2	60.9	73.5	59.1	48.4	52.0	68.1	93.2	93.2	71.7
80°	17.9	19.7	25.1	23.3	26.9	34.0	37.6	46.6	55.5	55.5	48.4
82.5°	0.0	1.8	5.4	12.5	19.7	26.9	30.5	35.8	41.2	46.6	44.8
85°	0.0	1.8	5.4	9.0	14.3	16.1	17.9	12.5	10.7	10.7	9.0
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.6	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



REPORT NUMBER: P528893

CATALOG NUMBER: GALN-SA4A-730-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3	1879.3
2.5°	1879.3	1877.5	1877.5	1872.1	1882.8	1877.5	1881.0	1879.3	1856.0	1873.9	1861.3
5°	1899.0	1911.5	1891.8	1888.2	1873.9	1879.3	1879.3	1861.3	1877.5	1875.7	1872.1
7.5°	1949.1	1927.6	1906.1	1884.6	1881.0	1875.7	1856.0	1848.8	1861.3	1847.0	1868.5
10°	1970.6	1974.2	1942.0	1913.3	1886.4	1848.8	1821.9	1805.8	1786.1	1807.6	1820.1
12.5°	2069.1	2033.3	1977.8	1933.0	1841.6	1804.0	1777.1	1770.0	1804.0	1811.2	1798.6
15°	2103.2	2097.8	2026.2	1925.8	1830.9	1786.1	1791.5	1777.1	1780.7	1762.8	1766.4
17.5°	2173.1	2112.1	2027.9	1902.5	1829.1	1818.3	1786.1	1728.8	1696.5	1682.2	1694.7
20°	2250.1	2191.0	2069.1	1911.5	1845.2	1816.6	1710.9	1641.0	1574.7	1538.9	1540.7
22.5°	2318.2	2244.7	2051.2	1915.1	1859.5	1741.3	1614.1	1476.2	1393.8	1338.2	1340.0
25°	2400.6	2296.7	2058.4	1922.2	1821.9	1621.3	1438.6	1304.2	1205.7	1168.0	1180.6
27.5°	2447.1	2328.9	2097.8	1938.4	1723.4	1451.1	1254.0	1128.6	1071.3	1053.4	1051.6
30°	2586.9	2400.6	2146.2	1906.1	1558.6	1268.4	1085.6	1008.6	953.1	936.9	940.5
32.5°	2794.7	2531.3	2208.9	1821.9	1390.2	1105.3	976.4	919.0	867.1	836.6	833.0
35°	2968.5	2755.3	2275.2	1691.1	1194.9	979.9	899.3	827.7	748.8	714.8	705.8
37.5°	3299.9	3007.9	2260.8	1494.1	1008.6	886.8	816.9	729.1	661.1	614.5	609.1
40°	3740.6	3303.5	2191.0	1254.0	870.7	804.4	729.1	644.9	560.7	521.3	517.7
42.5°	4276.2	3665.4	2063.8	1010.4	732.7	722.0	653.9	557.1	481.9	453.2	455.0
45°	4711.6	3975.3	1934.8	811.5	630.6	641.3	582.2	490.9	438.9	415.6	415.6
47.5°	5098.5	4184.9	1795.1	670.0	535.6	560.7	508.8	455.0	410.2	392.3	388.7
50°	5471.2	4398.1	1655.3	542.8	456.8	481.9	476.5	433.5	397.7	376.2	378.0
52.5°	5704.0	4432.1	1478.0	444.3	399.5	428.2	446.1	406.7	367.3	354.7	351.1
55°	5419.2	3993.2	1146.5	365.5	338.6	376.2	410.2	365.5	335.0	313.5	311.7
56°	5035.8	3570.4	958.4	336.8	320.7	361.9	397.7	349.3	315.3	302.8	293.8
57.5°	4263.7	2921.9	707.6	299.2	297.4	336.8	378.0	333.2	293.8	283.1	283.1
60°	2658.5	1644.6	428.2	250.8	258.0	299.2	340.4	297.4	261.6	261.6	266.9
62.5°	1211.0	684.3	259.8	213.2	222.1	258.0	302.8	268.7	249.0	268.7	272.3
65°	412.0	295.6	188.1	170.2	175.6	213.2	259.8	272.3	270.5	283.1	290.2
67.5°	231.1	189.9	157.6	141.5	137.9	157.6	213.2	272.3	261.6	256.2	259.8
70°	195.3	161.2	139.7	125.4	120.0	127.2	164.8	206.0	184.5	179.1	175.6
72.5°	157.6	134.4	121.8	112.9	96.7	82.4	75.2	78.8	87.8	93.2	102.1
75°	111.1	102.1	102.1	91.4	69.9	52.0	41.2	34.0	23.3	16.1	17.9
77.5°	62.7	62.7	64.5	55.5	44.8	34.0	25.1	17.9	9.0	3.6	1.8
80°	43.0	46.6	50.2	44.8	37.6	30.5	21.5	12.5	5.4	0.0	0.0
82.5°	43.0	48.4	52.0	44.8	37.6	28.7	21.5	12.5	5.4	1.8	0.0
85°	9.0	10.7	12.5	14.3	21.5	21.5	16.1	10.7	5.4	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	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)