

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: P647758

Luminaire Tested: **GALN-SA2A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6497.3 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

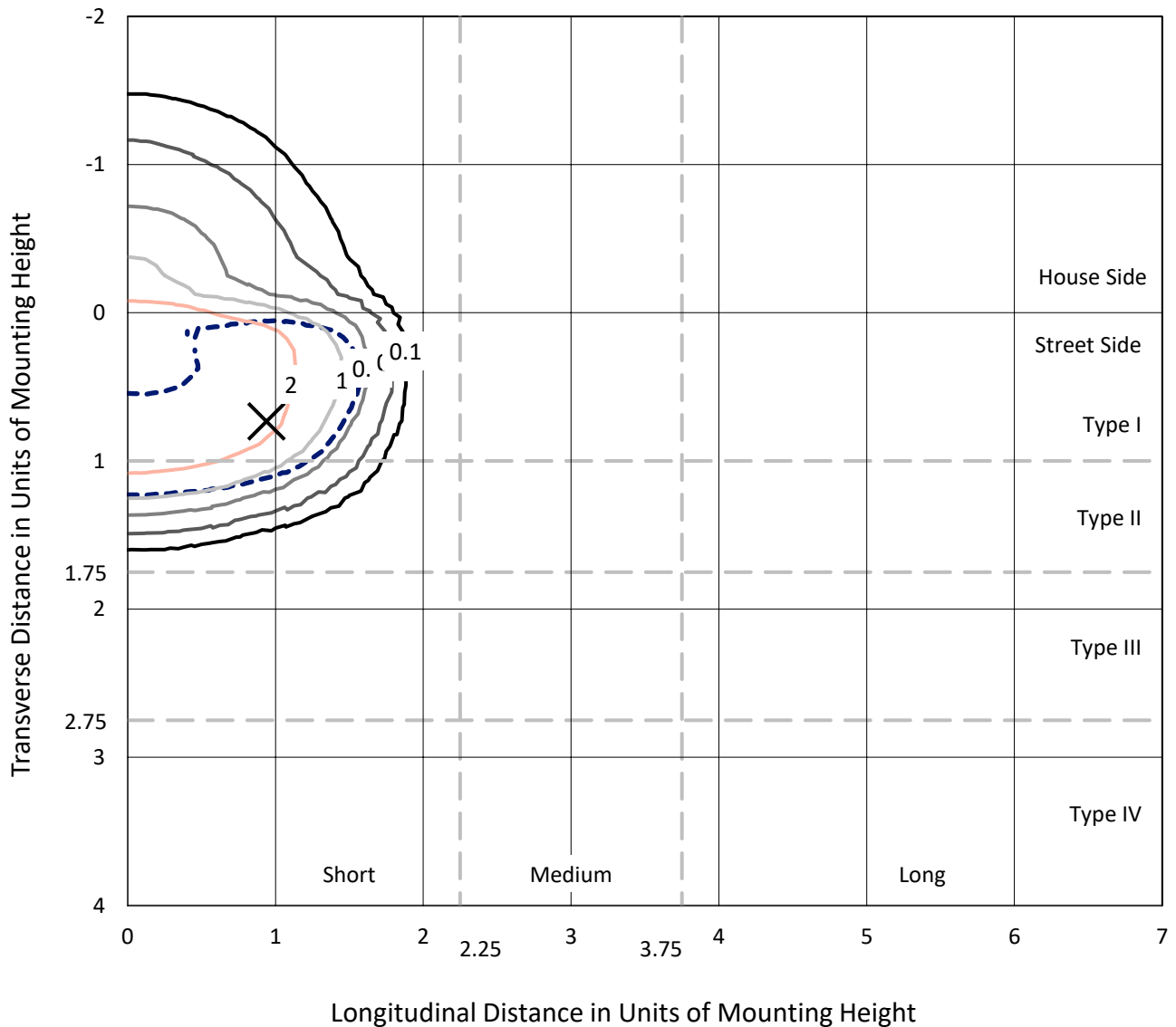
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

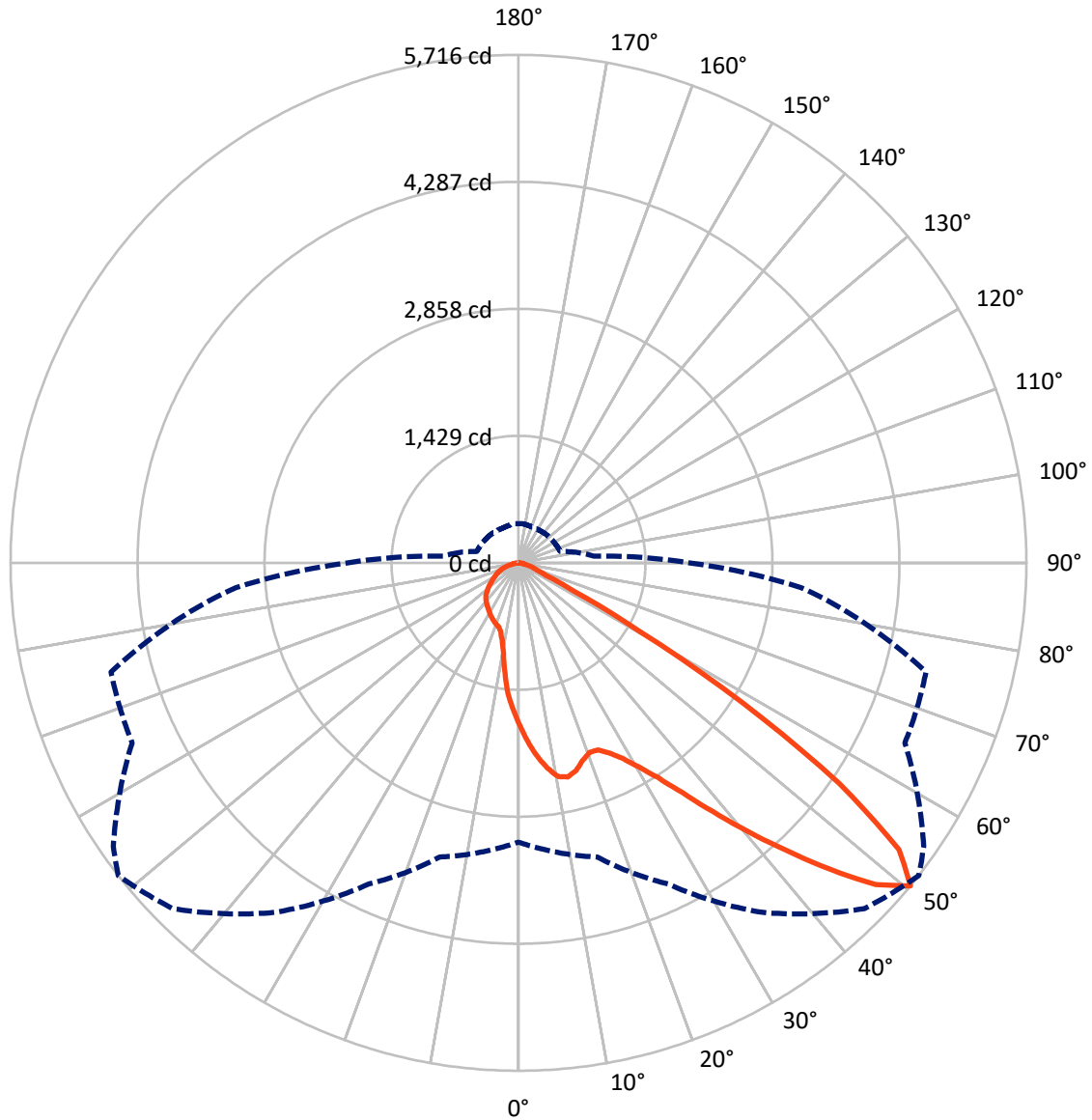
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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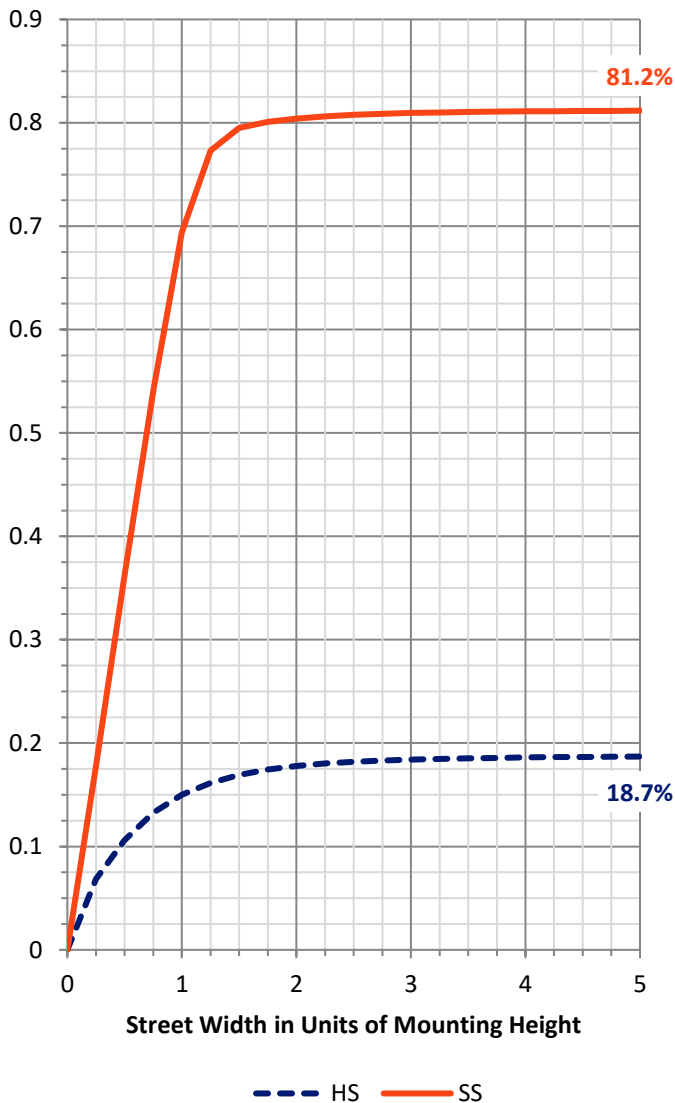
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1221.3	0.0	1221.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5276.0	0.0	5276.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	6497.3	0.0	6497.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	2.6
10°-20°	452.4	7.0
20°-30°	762.1	11.7
30°-40°	1278.9	19.7
40°-50°	1956.4	30.1
50°-60°	1426.4	22.0
60°-70°	317.4	4.9
70°-80°	114.5	1.8
80°-90°	20.3	0.3
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°	6497.3	100.0
0°-180°	6497.3	100.0

Coefficient of Utilization



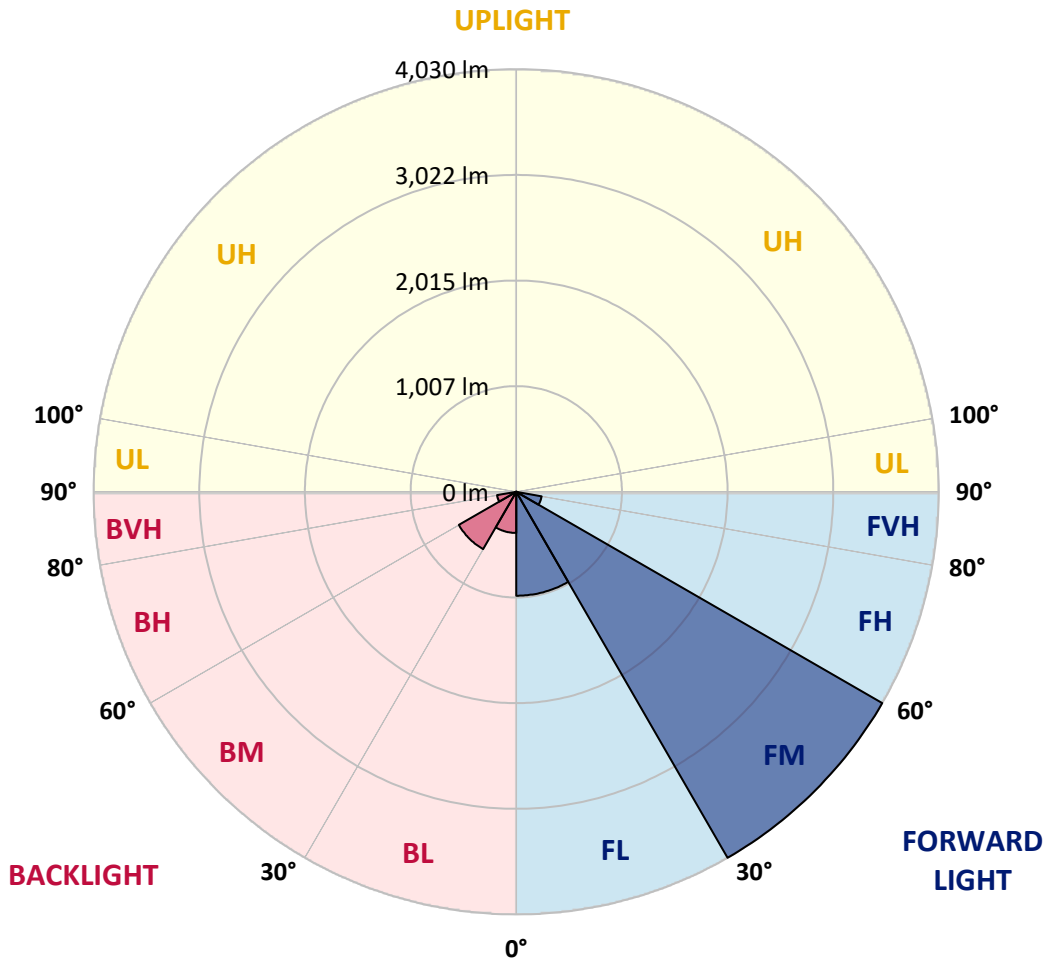
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.1	15.3			
FM (30°-60°)	4030.0	62.0			
FH (60°-80°)	245.9	3.8			G0/660
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	392.3	6.0	B1/500		
BM (30°-60°)	631.7	9.7	B1/1000		
BH (60°-80°)	186.1	2.9	B1/500		G1/500
BVH (80°-90°)	11.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5
2.5°	2156.5	2115.0	2119.7	2089.9	2057.8	2048.4	2015.5	1984.2	1960.7	1910.6	1864.4
5°	2356.9	2344.4	2325.6	2302.1	2277.8	2218.3	2184.6	2145.5	2059.4	1981.9	1905.1
7.5°	2385.9	2383.5	2393.7	2393.7	2402.3	2379.6	2331.9	2304.4	2212.8	2086.8	1944.3
10°	2182.3	2189.3	2238.7	2302.9	2392.1	2454.0	2446.2	2439.1	2338.9	2166.6	1990.5
12.5°	2020.2	2004.6	2033.5	2088.3	2222.2	2371.8	2472.8	2473.6	2447.7	2294.3	2024.1
15°	1928.6	1939.6	1947.4	1973.2	2074.2	2247.3	2425.0	2477.5	2591.0	2384.3	2077.4
17.5°	1987.3	1950.5	1949.0	1955.2	2006.9	2136.9	2336.6	2426.6	2669.3	2500.2	2143.1
20°	2064.1	2063.3	2041.4	2033.5	2032.7	2148.6	2278.6	2400.8	2710.8	2650.5	2209.7
22.5°	2198.7	2198.7	2162.7	2145.5	2108.7	2203.4	2286.4	2369.4	2779.7	2753.9	2241.8
25°	2424.2	2387.4	2325.6	2283.3	2262.2	2295.8	2369.4	2443.8	2840.0	2863.5	2308.4
27.5°	2632.5	2574.6	2544.0	2471.2	2443.0	2423.5	2490.8	2566.0	2910.5	3034.2	2344.4
30°	2869.0	2858.8	2804.0	2710.0	2640.4	2604.3	2666.2	2740.6	3039.7	3208.8	2427.4
32.5°	3291.8	3199.4	3125.0	3009.9	2896.4	2819.7	2880.7	2930.1	3254.2	3391.3	2518.2
35°	3748.3	3718.5	3590.1	3382.6	3208.8	3139.9	3175.9	3212.7	3504.0	3670.0	2670.9
37.5°	4197.0	4156.3	4050.6	3875.9	3664.5	3524.4	3550.2	3593.3	3784.3	4045.9	2857.2
40°	4519.6	4469.5	4416.3	4390.4	4180.6	3988.7	3973.8	3984.8	4163.4	4398.3	3064.0
42.5°	4543.1	4605.0	4621.4	4725.6	4676.2	4518.8	4427.2	4429.6	4525.1	4746.7	3273.0
45°	4493.8	4436.6	4558.0	4842.2	5005.1	5078.7	4924.4	4904.9	4749.1	4948.7	3377.2
47.5°	3976.2	3991.8	4197.0	4646.5	5117.1	5445.9	5409.9	5344.9	4868.9	4941.7	3360.7
50°	3143.0	3237.8	3428.1	3987.9	4803.9	5503.9	5716.1	5565.7	4797.6	4747.5	3193.2
52.5°	2093.0	2132.2	2257.5	2980.2	3862.6	4919.7	5363.7	5398.2	4731.8	4493.0	2981.0
55°	931.8	928.6	1104.8	1556.7	2423.5	3743.6	4382.6	4592.5	4478.9	4233.8	2774.2
57.5°	394.6	407.9	480.0	672.6	1191.7	2259.0	2969.2	3153.2	3444.5	3476.6	2128.3
60°	267.0	268.6	288.1	336.7	498.8	1061.0	1557.5	1778.3	1986.5	1972.5	1129.1
62.5°	209.8	215.3	230.2	249.8	296.0	481.5	696.9	819.8	833.1	700.8	428.3
65°	179.3	180.1	195.0	211.4	231.8	280.3	335.9	342.2	346.1	333.6	314.8
67.5°	148.0	149.6	161.3	180.1	198.9	214.5	230.2	238.0	256.0	291.3	286.6
70°	117.4	119.8	130.0	145.6	162.9	172.3	191.8	198.9	215.3	242.7	253.7
72.5°	89.3	90.0	98.7	109.6	125.3	134.7	151.1	158.9	169.9	193.4	203.6
75°	64.2	66.6	72.8	78.3	80.6	86.9	102.6	111.2	126.8	137.0	137.8
77.5°	33.7	35.2	36.8	36.8	44.6	56.4	66.6	71.3	82.2	90.0	86.1
80°	13.3	14.1	18.0	24.3	31.3	40.7	47.8	50.1	59.5	64.2	66.6
82.5°	7.8	8.6	11.7	17.2	22.7	29.0	34.5	36.8	43.1	48.5	50.1
85°	3.9	4.7	7.0	11.0	14.9	18.0	17.2	16.4	16.4	15.7	16.4
87.5°	1.6	1.6	2.3	2.3	2.3	3.1	3.9	3.9	3.9	4.7	4.7
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°	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5
2.5°	1833.9	1802.5	1773.6	1720.3	1662.4	1645.9	1578.6	1554.3	1537.1	1516.7	1510.5
5°	1843.3	1801.8	1708.6	1601.3	1516.0	1406.3	1334.3	1256.7	1200.3	1186.2	1182.3
7.5°	1862.8	1791.6	1631.1	1469.0	1294.3	1145.5	1032.0	970.9	916.9	913.8	908.3
10°	1884.8	1761.0	1546.5	1292.0	1068.8	931.0	862.9	836.2	822.9	819.8	818.2
12.5°	1902.8	1754.8	1451.8	1119.7	909.1	826.1	805.7	803.4	808.8	810.4	813.5
15°	1910.6	1729.7	1337.4	965.4	809.6	779.1	787.7	797.1	801.0	811.2	803.4
17.5°	1925.5	1697.6	1196.4	843.3	754.0	759.5	774.4	785.3	791.6	798.7	788.5
20°	1933.3	1668.7	1064.1	770.5	734.5	744.6	765.0	773.6	781.4	784.6	772.8
22.5°	1926.3	1609.1	947.4	711.7	715.7	729.0	747.0	756.4	751.7	739.2	732.1
25°	1907.5	1525.4	826.1	674.2	689.0	712.5	726.6	719.6	711.0	703.9	701.6
27.5°	1906.7	1422.8	738.4	639.7	666.3	698.4	693.7	687.5	691.4	685.9	679.6
30°	1910.6	1323.3	666.3	620.1	649.9	665.6	671.0	664.8	669.5	659.3	662.4
32.5°	1890.2	1226.2	619.4	597.4	630.3	629.5	647.5	652.2	641.3	620.1	623.3
35°	1898.9	1147.9	579.4	587.2	608.4	608.4	622.5	617.0	588.0	575.5	578.6
37.5°	1958.4	1071.1	559.8	573.2	587.2	593.5	588.8	565.3	558.3	558.3	559.8
40°	2014.7	1005.4	548.1	570.0	567.7	571.6	537.1	539.5	539.5	540.3	536.4
42.5°	2064.8	960.7	538.7	551.2	555.1	534.8	513.6	511.3	516.8	516.0	512.9
45°	2082.9	923.9	525.4	530.1	533.2	499.6	489.4	484.7	490.9	493.3	496.4
47.5°	2014.0	893.4	510.5	501.1	494.9	472.9	459.6	451.0	458.8	472.1	475.3
50°	1925.5	853.5	487.0	469.0	455.7	446.3	436.9	428.3	433.8	443.2	440.8
52.5°	1794.7	790.8	457.3	438.5	415.8	418.1	409.5	404.8	407.9	407.9	405.6
55°	1608.4	649.9	407.2	393.8	375.1	381.3	382.9	376.6	370.4	375.8	371.1
57.5°	1097.8	458.8	363.3	363.3	344.5	353.1	352.4	337.5	322.6	324.2	321.0
60°	635.0	365.7	335.1	332.0	312.4	319.5	321.0	310.9	288.1	289.7	286.6
62.5°	361.0	312.4	292.8	288.1	284.2	290.5	290.5	277.2	257.6	259.2	256.0
65°	306.9	289.7	261.5	260.7	259.2	260.7	254.5	240.4	223.2	216.1	216.9
67.5°	278.7	267.8	240.4	233.3	228.6	227.9	216.1	202.8	195.0	188.7	187.9
70°	244.3	235.7	215.3	205.9	201.2	190.3	178.5	169.9	158.9	155.8	158.9
72.5°	193.4	192.6	184.8	174.6	164.4	155.8	145.6	133.9	123.7	121.4	115.9
75°	133.9	135.5	137.0	135.5	126.8	115.9	104.1	94.7	82.2	75.2	73.6
77.5°	87.7	90.0	92.4	89.3	83.8	73.6	65.8	54.0	44.6	39.2	38.4
80°	64.2	67.3	68.9	66.6	60.3	52.5	43.8	34.5	27.4	22.7	22.7
82.5°	49.3	52.5	54.0	50.1	43.8	37.6	31.3	24.3	18.8	14.9	14.1
85°	17.2	16.4	19.6	20.4	24.3	22.7	18.8	14.1	11.0	7.8	7.0
87.5°	4.7	4.7	5.5	5.5	4.7	3.9	3.9	3.9	3.1	2.3	2.3
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)