

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: P529554

Luminaire Tested: **GALN-SA4D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529554
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-SA4D-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 23094 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

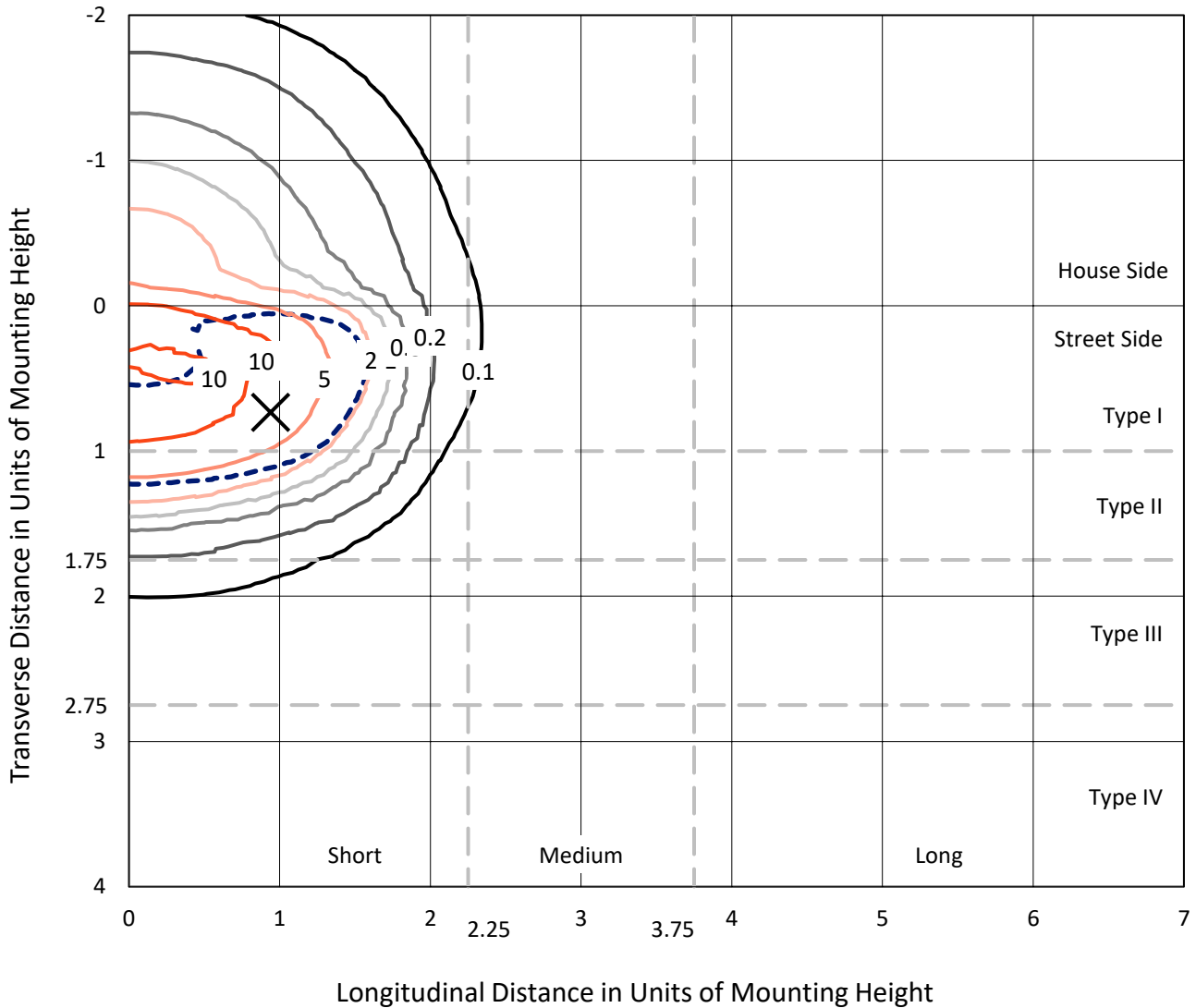
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

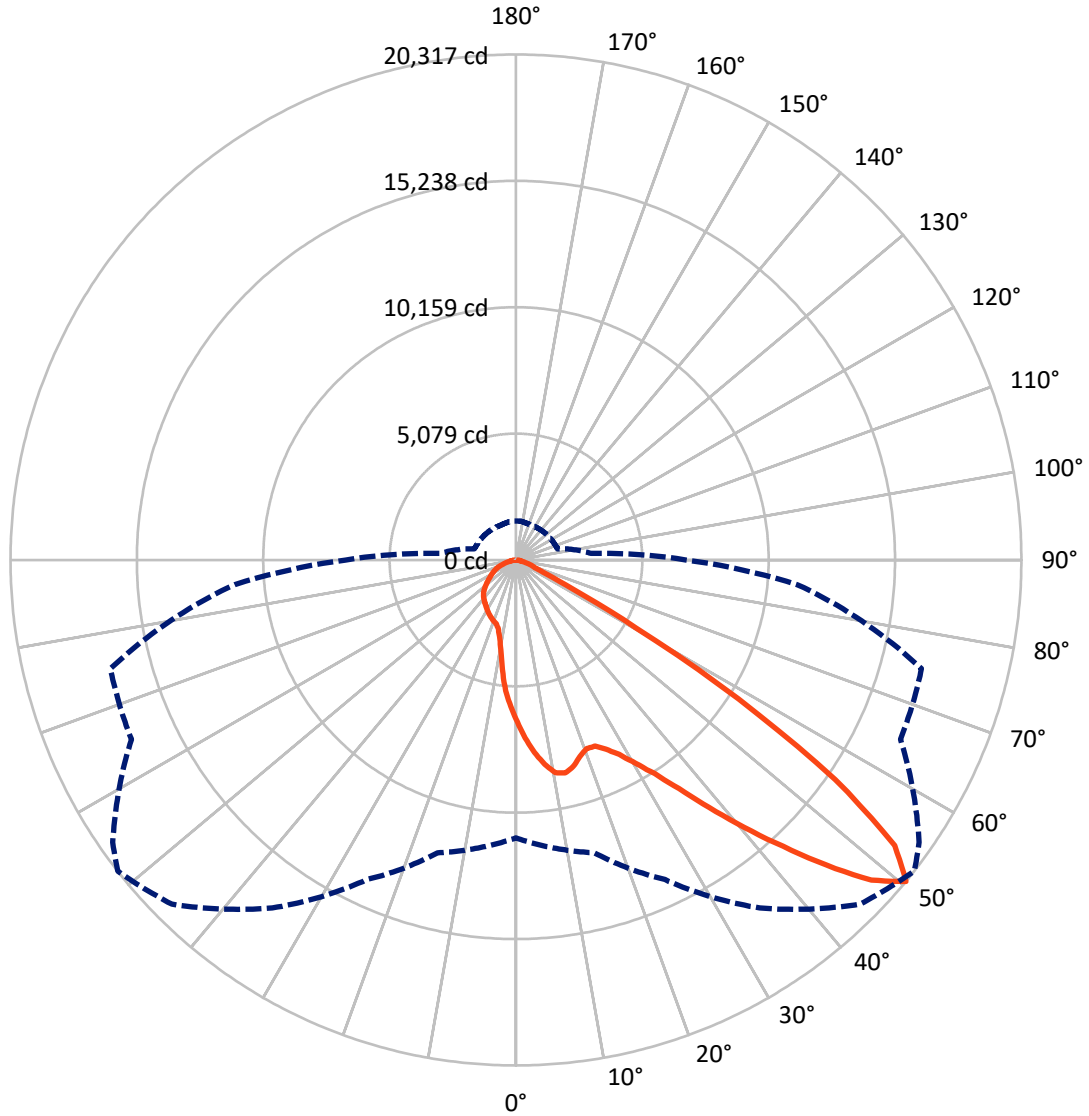
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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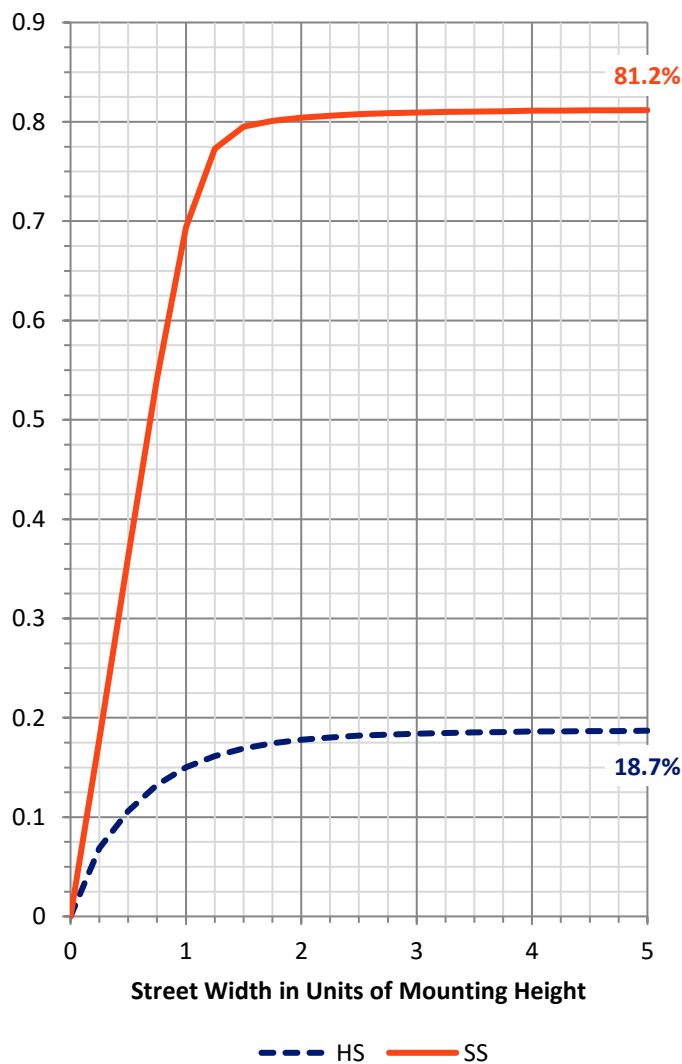
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4341.1	0.0	4341.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18752.9	0.0	18752.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	23094.0	0.0	23094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.0	2.6
10°-20°	1608.2	7.0
20°-30°	2708.9	11.7
30°-40°	4545.8	19.7
40°-50°	6953.9	30.1
50°-60°	5069.9	22.0
60°-70°	1128.3	4.9
70°-80°	407.0	1.8
80°-90°	72.0	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°	23094.0	100.0
0°-180°	23094.0	100.0

Coefficient of Utilization

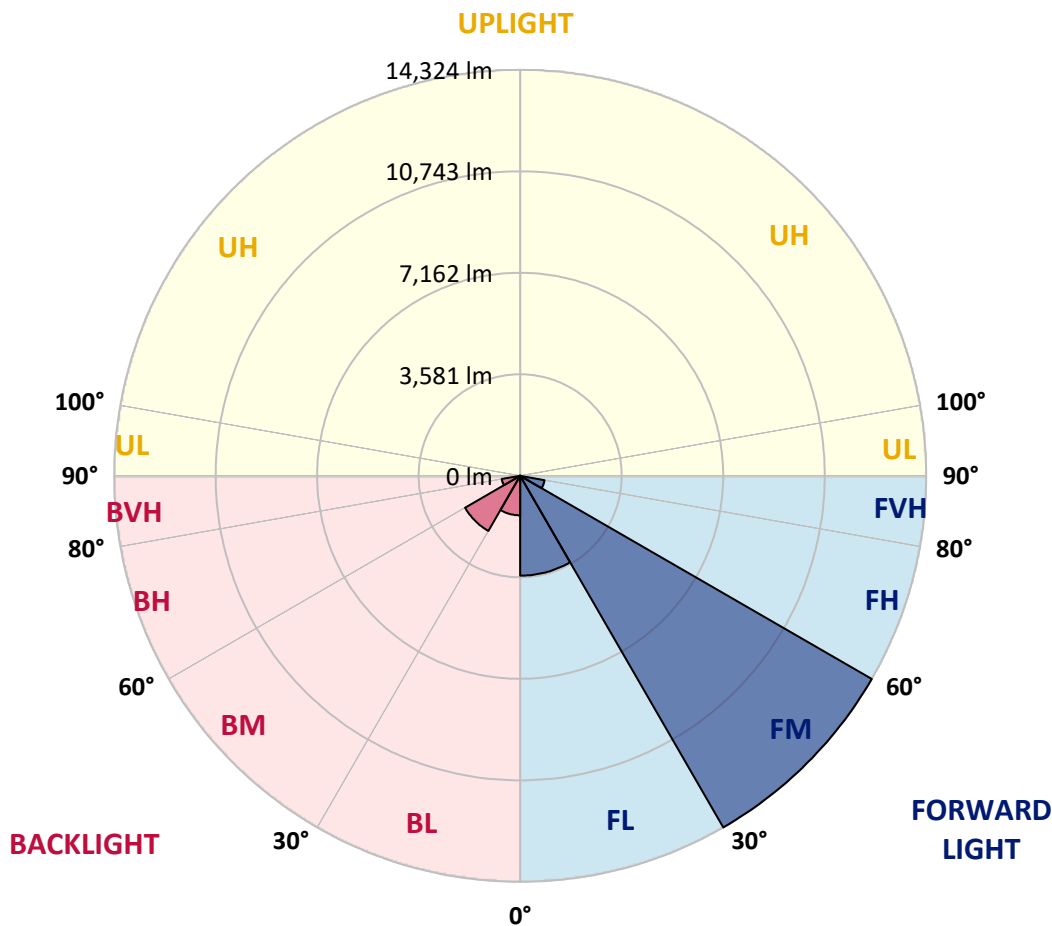


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3522.6	15.3			
FM (30°-60°)	14324.1	62.0			
FH (60°-80°)	873.9	3.8			G1/1800
FVH (80°-90°)	32.3	0.1			G1/100
BL (0°-30°)	1394.5	6.0	B3/2500		
BM (30°-60°)	2245.5	9.7	B2/2500		
BH (60°-80°)	661.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	39.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
2.5°	7664.8	7517.3	7534.0	7428.3	7314.1	7280.8	7163.9	7052.5	6969.0	6790.9	6626.7
5°	8377.3	8332.8	8266.0	8182.5	8096.2	7884.7	7765.0	7625.9	7319.7	7044.2	6771.4
7.5°	8480.3	8471.9	8508.1	8508.1	8538.7	8458.0	8288.3	8190.8	7865.2	7417.1	6910.6
10°	7756.7	7781.7	7957.1	8185.3	8502.6	8722.4	8694.6	8669.5	8313.3	7701.0	7074.8
12.5°	7180.6	7124.9	7227.9	7422.7	7898.6	8430.2	8789.2	8792.0	8700.2	8154.7	7194.5
15°	6854.9	6893.9	6921.7	7013.6	7372.6	7987.7	8619.5	8805.9	9209.5	8474.7	7383.7
17.5°	7063.7	6932.9	6927.3	6949.6	7133.2	7595.2	8305.0	8625.0	9487.8	8886.6	7617.5
20°	7336.4	7333.6	7255.7	7227.9	7225.1	7637.0	8099.0	8533.2	9635.3	9421.0	7854.1
22.5°	7815.1	7815.1	7687.1	7625.9	7495.1	7831.8	8126.8	8421.8	9880.2	9788.4	7968.2
25°	8616.7	8485.9	8266.0	8115.7	8040.6	8160.2	8421.8	8686.2	10094.5	10178.0	8204.8
27.5°	9357.0	9151.0	9042.5	8783.7	8683.5	8613.9	8853.2	9120.4	10345.0	10784.8	8332.8
30°	10197.5	10161.3	9966.5	9632.5	9384.8	9256.8	9476.7	9741.1	10804.2	11405.4	8627.8
32.5°	11700.4	11372.0	11107.6	10698.5	10294.9	10022.2	10239.3	10414.6	11566.8	12053.9	8950.6
35°	13323.0	13217.2	12760.8	12023.3	11405.4	11160.5	11288.5	11419.3	12454.6	13044.7	9493.4
37.5°	14917.7	14773.0	14397.3	13776.7	13025.2	12527.0	12618.9	12771.9	13451.0	14380.6	10155.8
40°	16064.4	15886.3	15697.0	15605.2	14859.3	14177.4	14124.5	14163.5	14798.1	15633.0	10890.5
42.5°	16147.9	16367.8	16426.2	16796.4	16621.0	16061.6	15736.0	15744.3	16083.9	16871.5	11633.6
45°	15972.6	15769.4	16200.8	17211.1	17790.0	18051.6	17503.3	17433.7	16879.9	17589.6	12003.8
47.5°	14132.9	14188.6	14917.7	16515.3	18188.0	19356.9	19228.9	18997.9	17305.7	17564.5	11945.3
50°	11171.6	11508.4	12184.7	14174.6	17074.7	19562.8	20317.1	19782.7	17052.4	16874.3	11349.7
52.5°	7439.4	7578.5	8023.9	10592.7	13729.3	17486.6	19064.7	19187.1	16818.6	15969.8	10595.5
55°	3312.0	3300.8	3927.0	5532.9	8613.9	13306.3	15577.4	16323.2	15919.7	15048.6	9860.7
57.5°	1402.7	1450.0	1706.1	2390.7	4236.0	8029.4	10553.8	11207.8	12243.1	12357.2	7564.6
60°	949.1	954.6	1024.2	1196.8	1772.9	3771.2	5535.7	6320.6	7060.9	7010.8	4013.3
62.5°	745.9	765.4	818.2	887.8	1052.0	1711.6	2477.0	2914.0	2961.3	2490.9	1522.4
65°	637.3	640.1	693.0	751.5	823.8	996.4	1194.0	1216.2	1230.2	1185.6	1118.8
67.5°	526.0	531.6	573.3	640.1	706.9	762.6	818.2	846.1	910.1	1035.3	1018.6
70°	417.5	425.8	462.0	517.7	578.9	612.3	681.9	706.9	765.4	862.8	901.7
72.5°	317.3	320.1	350.7	389.6	445.3	478.7	537.2	565.0	603.9	687.4	723.6
75°	228.2	236.6	258.8	278.3	286.7	308.9	364.6	395.2	450.9	487.1	489.8
77.5°	119.7	125.2	130.8	130.8	158.6	200.4	236.6	253.3	292.2	320.1	306.1
80°	47.3	50.1	64.0	86.3	111.3	144.7	169.8	178.1	211.5	228.2	236.6
82.5°	27.8	30.6	41.7	61.2	80.7	103.0	122.5	130.8	153.1	172.6	178.1
85°	13.9	16.7	25.0	39.0	52.9	64.0	61.2	58.4	58.4	55.7	58.4
87.5°	5.6	5.6	8.3	8.3	8.3	11.1	13.9	13.9	13.9	16.7	16.7
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°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
2.5°	6518.2	6406.8	6303.9	6114.6	5908.7	5850.2	5610.9	5524.6	5463.3	5391.0	5368.7
5°	6551.6	6404.1	6072.9	5691.6	5388.2	4998.6	4742.5	4467.0	4266.6	4216.5	4202.6
7.5°	6621.1	6367.9	5797.3	5221.2	4600.6	4071.8	3668.2	3451.1	3259.1	3247.9	3228.5
10°	6699.1	6259.3	5496.7	4592.2	3799.0	3309.2	3067.0	2972.4	2925.1	2914.0	2908.4
12.5°	6763.1	6237.1	5160.0	3979.9	3231.3	2936.2	2863.9	2855.5	2875.0	2880.6	2891.7
15°	6790.9	6148.0	4753.6	3431.6	2877.8	2769.2	2799.9	2833.3	2847.2	2883.4	2855.5
17.5°	6843.8	6033.9	4252.7	2997.5	2680.2	2699.7	2752.5	2791.5	2813.8	2838.8	2802.6
20°	6871.6	5930.9	3782.3	2738.6	2610.6	2646.8	2719.1	2749.8	2777.6	2788.7	2747.0
22.5°	6846.6	5719.4	3367.6	2529.9	2543.8	2591.1	2655.1	2688.5	2671.8	2627.3	2602.3
25°	6779.8	5421.6	2936.2	2396.3	2449.2	2532.7	2582.8	2557.7	2527.1	2502.1	2493.7
27.5°	6777.0	5057.0	2624.5	2273.8	2368.5	2482.6	2465.9	2443.6	2457.5	2438.0	2415.8
30°	6790.9	4703.5	2368.5	2204.3	2310.0	2365.7	2385.2	2362.9	2379.6	2343.4	2354.6
32.5°	6718.6	4358.4	2201.5	2123.6	2240.4	2237.7	2301.7	2318.4	2279.4	2204.3	2215.4
35°	6749.2	4080.1	2059.5	2087.4	2162.5	2162.5	2212.6	2193.1	2090.2	2045.6	2056.8
37.5°	6960.7	3807.4	1990.0	2037.3	2087.4	2109.6	2092.9	2009.4	1984.4	1984.4	1990.0
40°	7161.1	3573.6	1948.2	2026.1	2017.8	2031.7	1909.2	1917.6	1917.6	1920.4	1906.5
42.5°	7339.2	3414.9	1914.8	1959.3	1973.3	1900.9	1825.8	1817.4	1836.9	1834.1	1823.0
45°	7403.2	3284.1	1867.5	1884.2	1895.3	1775.7	1739.5	1722.8	1745.0	1753.4	1764.5
47.5°	7158.3	3175.6	1814.6	1781.2	1759.0	1681.0	1633.7	1603.1	1630.9	1678.2	1689.4
50°	6843.8	3033.6	1731.1	1667.1	1619.8	1586.4	1553.0	1522.4	1541.9	1575.3	1566.9
52.5°	6379.0	2811.0	1625.4	1558.6	1477.9	1486.2	1455.6	1438.9	1450.0	1450.0	1441.7
55°	5716.6	2310.0	1447.2	1399.9	1333.1	1355.4	1361.0	1338.7	1316.4	1335.9	1319.2
57.5°	3902.0	1630.9	1291.4	1291.4	1224.6	1255.2	1252.4	1199.5	1146.7	1152.2	1141.1
60°	2257.1	1299.7	1191.2	1180.1	1110.5	1135.5	1141.1	1104.9	1024.2	1029.8	1018.6
62.5°	1283.0	1110.5	1040.9	1024.2	1010.3	1032.6	1032.6	985.2	915.7	921.2	910.1
65°	1091.0	1029.8	929.6	926.8	921.2	926.8	904.5	854.4	793.2	768.2	770.9
67.5°	990.8	951.8	854.4	829.4	812.7	809.9	768.2	720.8	693.0	670.7	668.0
70°	868.3	837.7	765.4	732.0	715.3	676.3	634.6	603.9	565.0	553.8	565.0
72.5°	687.4	684.7	656.8	620.6	584.5	553.8	517.7	475.9	439.7	431.4	411.9
75°	475.9	481.5	487.1	481.5	450.9	411.9	370.2	336.8	292.2	267.2	261.6
77.5°	311.7	320.1	328.4	317.3	297.8	261.6	233.8	192.0	158.6	139.2	136.4
80°	228.2	239.4	244.9	236.6	214.3	186.5	155.9	122.5	97.4	80.7	80.7
82.5°	175.3	186.5	192.0	178.1	155.9	133.6	111.3	86.3	66.8	52.9	50.1
85°	61.2	58.4	69.6	72.4	86.3	80.7	66.8	50.1	39.0	27.8	25.0
87.5°	16.7	16.7	19.5	19.5	16.7	13.9	13.9	13.9	11.1	8.3	8.3
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)