

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: P526980

Luminaire Tested: **GALN-SA2A-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526980
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-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 6940 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

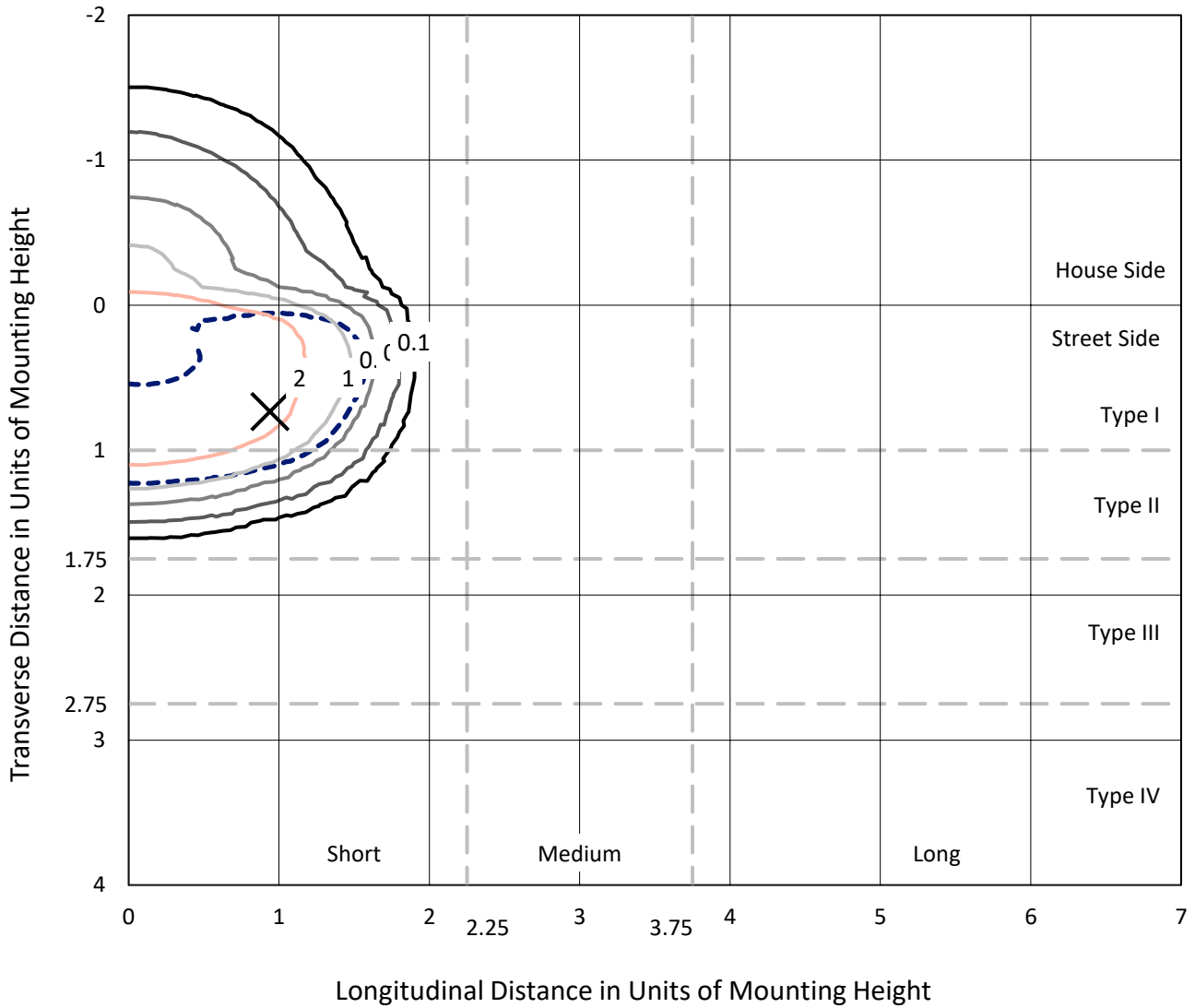
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

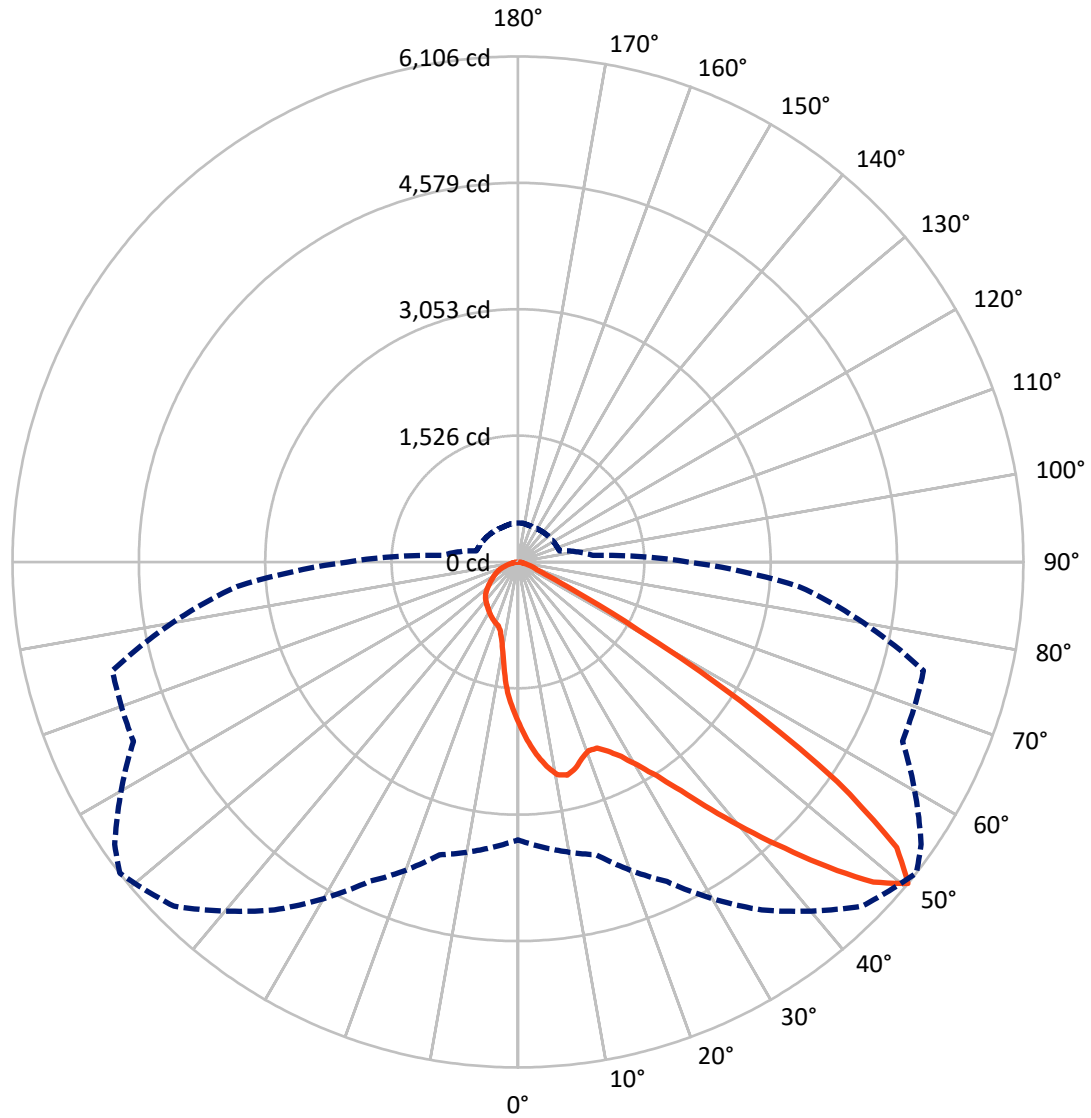
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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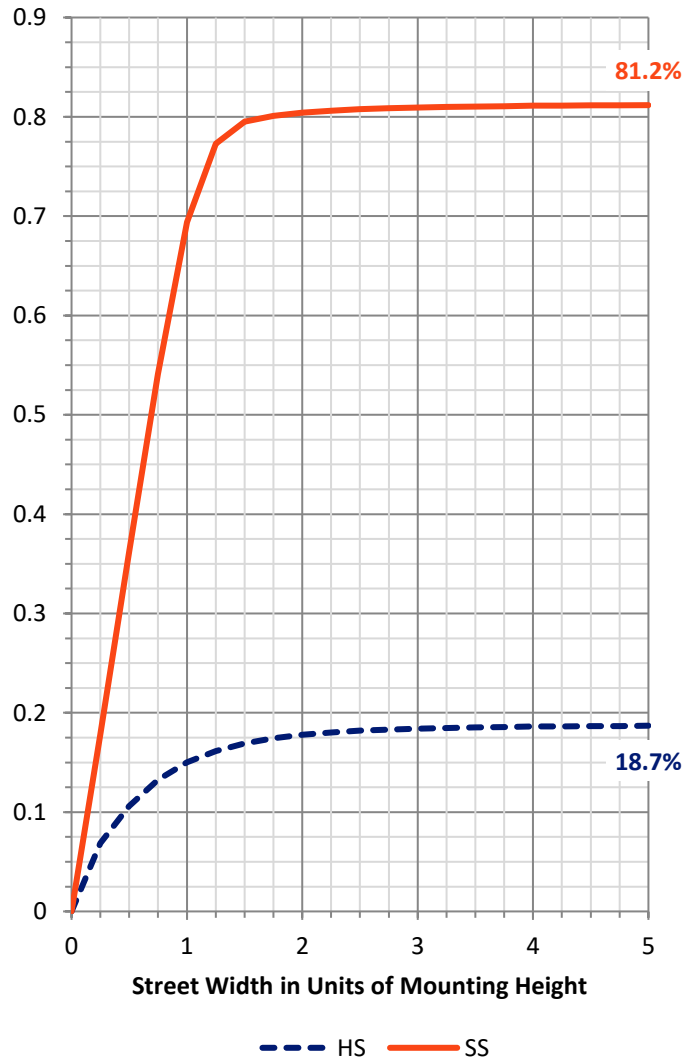
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1304.6	0.0	1304.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5635.4	0.0	5635.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	6940.0	0.0	6940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	2.6
10°-20°	483.3	7.0
20°-30°	814.1	11.7
30°-40°	1366.1	19.7
40°-50°	2089.7	30.1
50°-60°	1523.6	22.0
60°-70°	339.1	4.9
70°-80°	122.3	1.8
80°-90°	21.6	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°	6940.0	100.0
0°-180°	6940.0	100.0

Coefficient of Utilization

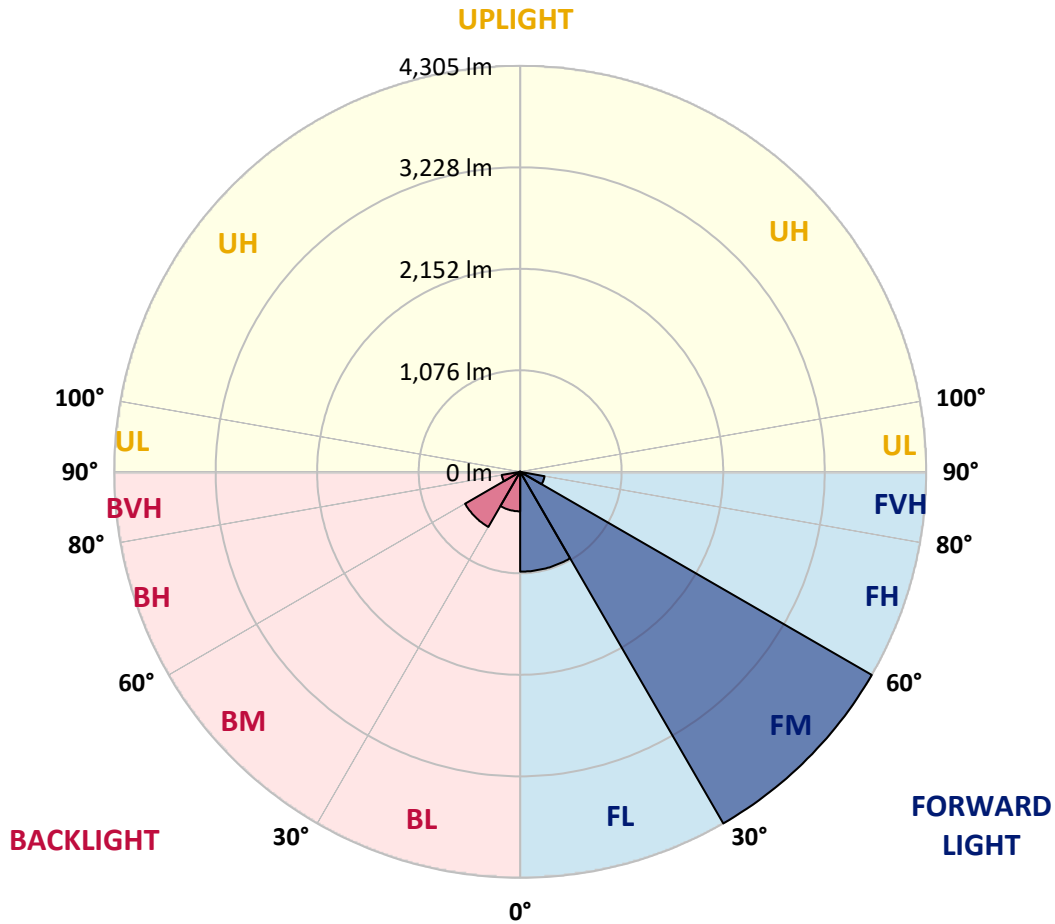


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.6	15.3			
FM (30°-60°)	4304.5	62.0			
FH (60°-80°)	262.6	3.8			G0/660
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	419.0	6.0	B1/500		
BM (30°-60°)	674.8	9.7	B1/1000		
BH (60°-80°)	198.8	2.9	B1/500		G1/500
BVH (80°-90°)	11.9	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°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	2303.4	2259.0	2264.1	2232.3	2198.0	2187.9	2152.8	2119.4	2094.3	2040.7	1991.4
5°	2517.5	2504.1	2484.0	2458.9	2433.0	2369.4	2333.5	2291.7	2199.7	2116.9	2034.9
7.5°	2548.4	2545.9	2556.8	2556.8	2566.0	2541.7	2490.7	2461.4	2363.6	2228.9	2076.7
10°	2331.0	2338.5	2391.2	2459.8	2555.1	2621.2	2612.8	2605.3	2498.2	2314.2	2126.1
12.5°	2157.8	2141.1	2172.1	2230.6	2373.6	2533.4	2641.3	2642.1	2614.5	2450.6	2162.0
15°	2060.0	2071.7	2080.1	2107.7	2215.5	2400.4	2590.2	2646.3	2767.6	2546.7	2218.9
17.5°	2122.7	2083.4	2081.7	2088.4	2143.6	2282.5	2495.7	2591.9	2851.2	2670.5	2289.1
20°	2204.7	2203.8	2180.4	2172.1	2171.2	2295.0	2433.8	2564.3	2895.5	2831.1	2360.2
22.5°	2348.5	2348.5	2310.1	2291.7	2252.3	2353.5	2442.2	2530.9	2969.1	2941.5	2394.5
25°	2589.4	2550.1	2484.0	2438.9	2416.3	2452.2	2530.9	2610.3	3033.5	3058.6	2465.6
27.5°	2811.9	2750.0	2717.4	2639.6	2609.5	2588.6	2660.5	2740.8	3108.8	3240.9	2504.1
30°	3064.5	3053.6	2995.0	2894.7	2820.2	2781.8	2847.8	2927.3	3246.8	3427.4	2592.7
32.5°	3516.1	3417.4	3338.0	3215.0	3093.7	3011.8	3077.0	3129.7	3476.0	3622.3	2689.8
35°	4003.7	3971.9	3834.8	3613.1	3427.4	3353.8	3392.3	3431.6	3742.8	3920.1	2852.9
37.5°	4482.9	4439.5	4326.5	4140.0	3914.2	3764.5	3792.1	3838.1	4042.2	4321.5	3051.9
40°	4827.5	4774.0	4717.1	4689.5	4465.4	4260.5	4244.6	4256.3	4447.0	4697.9	3272.7
42.5°	4852.6	4918.7	4936.3	5047.5	4994.8	4826.7	4728.8	4731.3	4833.4	5070.1	3496.0
45°	4799.9	4738.9	4868.5	5172.1	5346.1	5424.7	5259.9	5239.0	5072.6	5285.9	3607.3
47.5°	4247.1	4263.8	4482.9	4963.0	5465.7	5817.0	5778.5	5709.1	5200.6	5278.3	3589.7
50°	3357.2	3458.4	3661.6	4259.6	5131.1	5878.8	6105.5	5944.9	5124.4	5070.9	3410.7
52.5°	2235.6	2277.4	2411.3	3183.2	4125.8	5254.9	5729.1	5765.9	5054.2	4799.1	3184.1
55°	995.3	991.9	1180.1	1662.7	2588.6	3998.7	4681.2	4905.3	4784.0	4522.3	2963.3
57.5°	421.5	435.7	512.7	718.4	1273.0	2412.9	3171.5	3368.1	3679.2	3713.5	2273.3
60°	285.2	286.9	307.8	359.6	532.8	1133.3	1663.5	1899.4	2121.9	2106.8	1206.0
62.5°	224.1	230.0	245.9	266.8	316.1	514.4	744.4	875.7	889.9	748.6	457.5
65°	191.5	192.4	208.3	225.8	247.6	299.4	358.8	365.5	369.7	356.3	336.2
67.5°	158.1	159.7	172.3	192.4	212.4	229.2	245.9	254.3	273.5	311.1	306.1
70°	125.5	128.0	138.8	155.6	174.0	184.0	204.9	212.4	230.0	259.3	271.0
72.5°	95.3	96.2	105.4	117.1	133.8	143.9	161.4	169.8	181.5	206.6	217.5
75°	68.6	71.1	77.8	83.6	86.1	92.8	109.6	118.8	135.5	146.4	147.2
77.5°	36.0	37.6	39.3	39.3	47.7	60.2	71.1	76.1	87.8	96.2	92.0
80°	14.2	15.1	19.2	25.9	33.5	43.5	51.0	53.5	63.6	68.6	71.1
82.5°	8.4	9.2	12.5	18.4	24.3	30.9	36.8	39.3	46.0	51.9	53.5
85°	4.2	5.0	7.5	11.7	15.9	19.2	18.4	17.6	17.6	16.7	17.6
87.5°	1.7	1.7	2.5	2.5	2.5	3.3	4.2	4.2	4.2	5.0	5.0
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°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1958.8	1925.3	1894.4	1837.5	1775.6	1758.1	1686.1	1660.2	1641.8	1620.0	1613.4
5°	1968.8	1924.5	1825.0	1710.4	1619.2	1502.1	1425.2	1342.4	1282.2	1267.1	1262.9
7.5°	1989.7	1913.6	1742.2	1569.0	1382.5	1223.6	1102.3	1037.1	979.4	976.0	970.2
10°	2013.1	1881.0	1651.8	1380.0	1141.6	994.4	921.7	893.2	879.0	875.7	874.0
12.5°	2032.4	1874.3	1550.6	1196.0	971.0	882.4	860.6	858.1	864.0	865.6	869.0
15°	2040.7	1847.5	1428.5	1031.2	864.8	832.2	841.4	851.4	855.6	866.5	858.1
17.5°	2056.6	1813.3	1278.0	900.8	805.4	811.3	827.2	838.9	845.6	853.1	842.2
20°	2065.0	1782.3	1136.6	823.0	784.5	795.4	817.1	826.3	834.7	838.0	825.5
22.5°	2057.5	1718.7	1012.0	760.3	764.4	778.7	797.9	807.9	802.9	789.5	782.0
25°	2037.4	1629.3	882.4	720.1	736.0	761.1	776.2	768.6	759.4	751.9	749.4
27.5°	2036.6	1519.7	788.7	683.3	711.8	746.0	741.0	734.3	738.5	732.7	726.0
30°	2040.7	1413.5	711.8	662.4	694.2	710.9	716.8	710.1	715.1	704.2	707.6
32.5°	2019.0	1309.8	661.6	638.2	673.3	672.4	691.7	696.7	685.0	662.4	665.8
35°	2028.2	1226.1	618.9	627.3	649.9	649.9	664.9	659.1	628.1	614.7	618.1
37.5°	2091.8	1144.2	598.0	612.2	627.3	634.0	629.0	603.9	596.3	596.3	598.0
40°	2152.0	1073.9	585.5	608.9	606.4	610.6	573.8	576.3	576.3	577.1	572.9
42.5°	2205.5	1026.2	575.4	588.8	593.0	571.2	548.7	546.2	552.0	551.2	547.8
45°	2224.7	986.9	561.2	566.2	569.6	533.6	522.7	517.7	524.4	526.9	530.3
47.5°	2151.1	954.3	545.3	535.3	528.6	505.2	490.9	481.7	490.1	504.3	507.7
50°	2056.6	911.6	520.2	501.0	486.8	476.7	466.7	457.5	463.3	473.4	470.9
52.5°	1917.0	844.7	488.4	468.4	444.1	446.6	437.4	432.4	435.7	435.7	433.2
55°	1717.9	694.2	434.9	420.7	400.6	407.3	409.0	402.3	395.6	401.5	396.4
57.5°	1172.6	490.1	388.1	388.1	368.0	377.2	376.4	360.5	344.6	346.3	342.9
60°	678.3	390.6	358.0	354.6	333.7	341.2	342.9	332.0	307.8	309.5	306.1
62.5°	385.6	333.7	312.8	307.8	303.6	310.3	310.3	296.1	275.2	276.8	273.5
65°	327.9	309.5	279.3	278.5	276.8	278.5	271.8	256.8	238.4	230.8	231.7
67.5°	297.7	286.0	256.8	249.2	244.2	243.4	230.8	216.6	208.3	201.6	200.7
70°	260.9	251.7	230.0	220.0	214.9	203.2	190.7	181.5	169.8	166.4	169.8
72.5°	206.6	205.7	197.4	186.5	175.6	166.4	155.6	143.0	132.1	129.6	123.8
75°	143.0	144.7	146.4	144.7	135.5	123.8	111.2	101.2	87.8	80.3	78.6
77.5°	93.7	96.2	98.7	95.3	89.5	78.6	70.3	57.7	47.7	41.8	41.0
80°	68.6	71.9	73.6	71.1	64.4	56.0	46.8	36.8	29.3	24.3	24.3
82.5°	52.7	56.0	57.7	53.5	46.8	40.1	33.5	25.9	20.1	15.9	15.1
85°	18.4	17.6	20.9	21.7	25.9	24.3	20.1	15.1	11.7	8.4	7.5
87.5°	5.0	5.0	5.9	5.9	5.0	4.2	4.2	4.2	3.3	2.5	2.5
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)