

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: P527451

Luminaire Tested: **GALN-SA2C-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6901 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

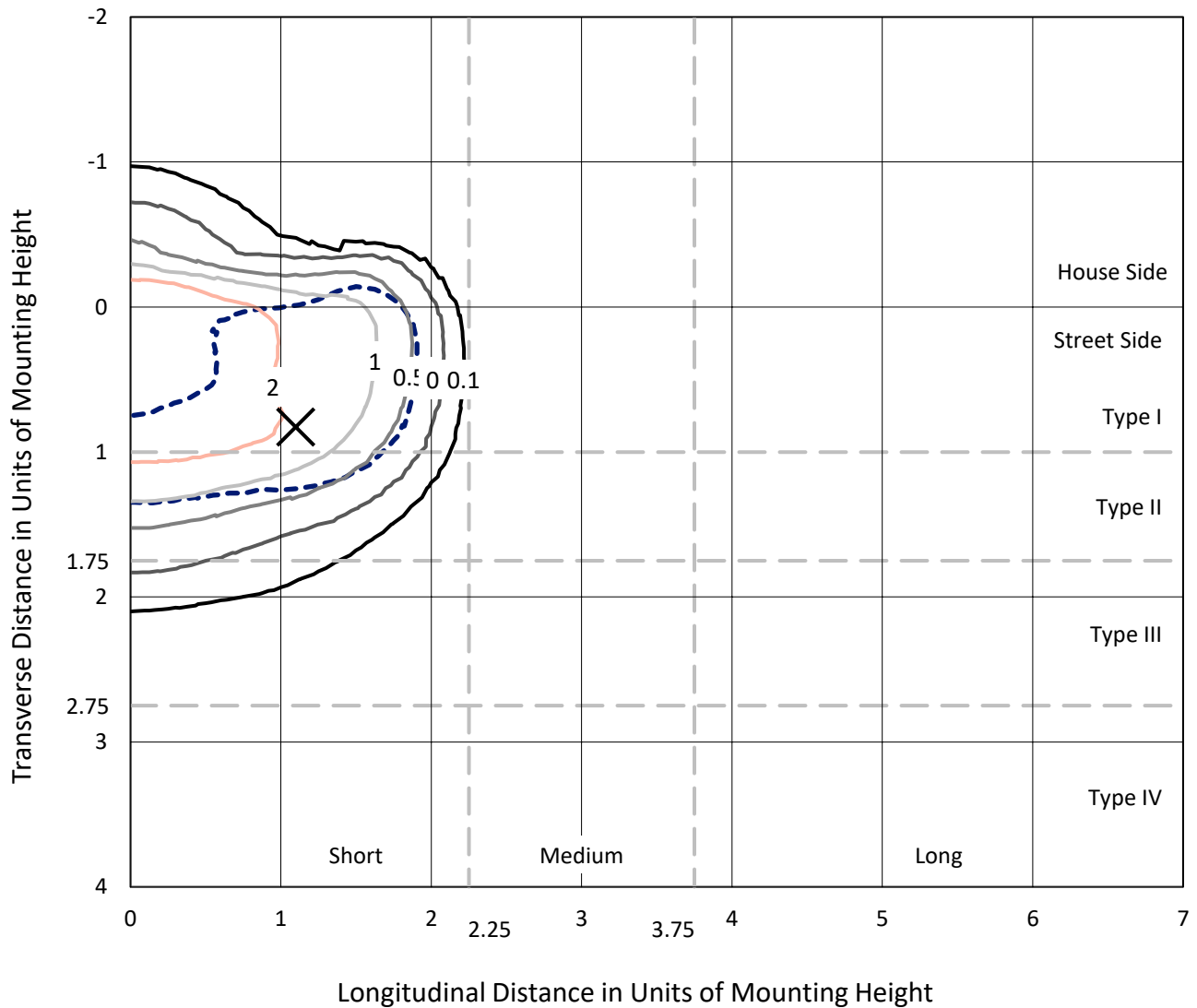
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

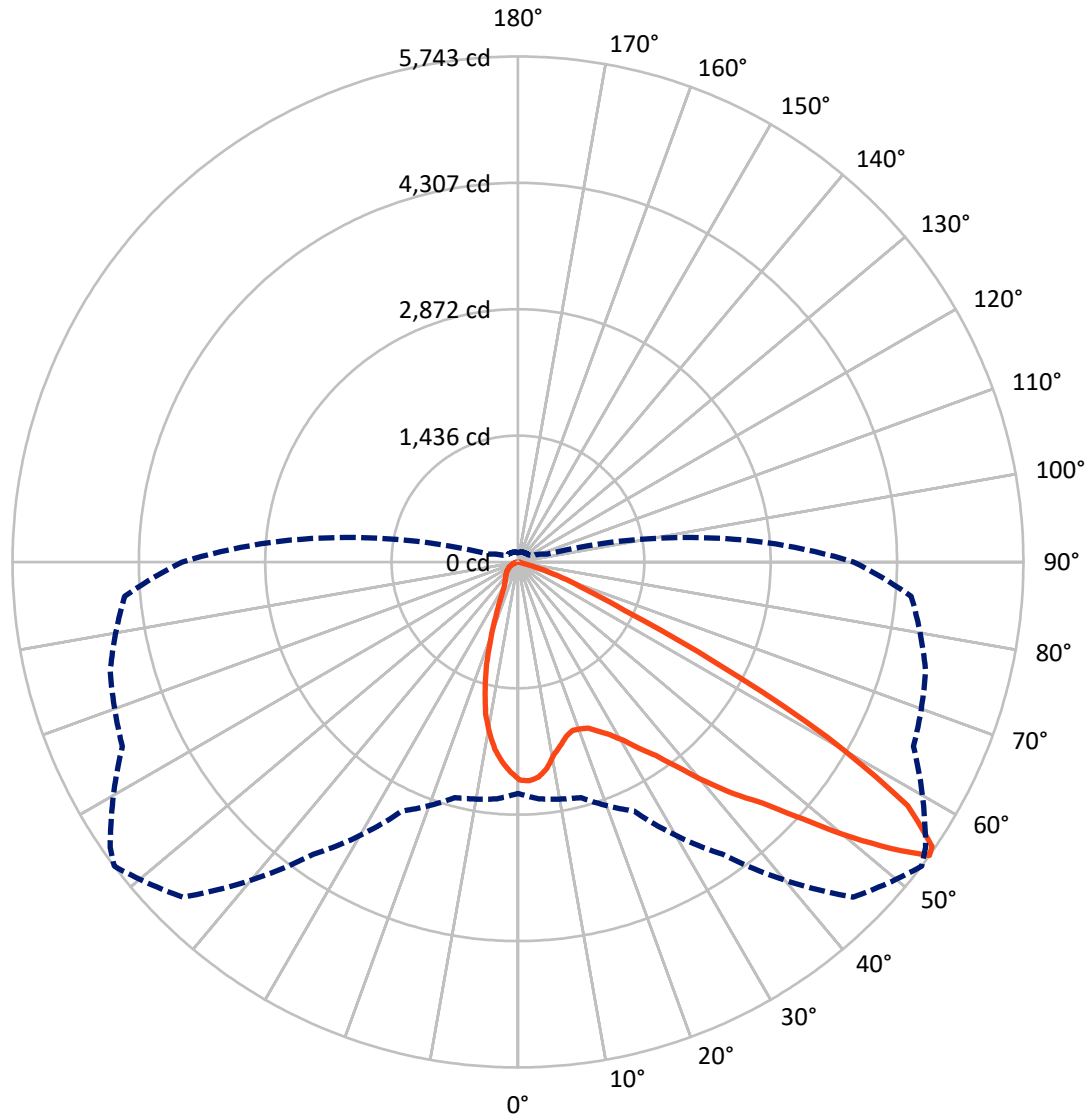
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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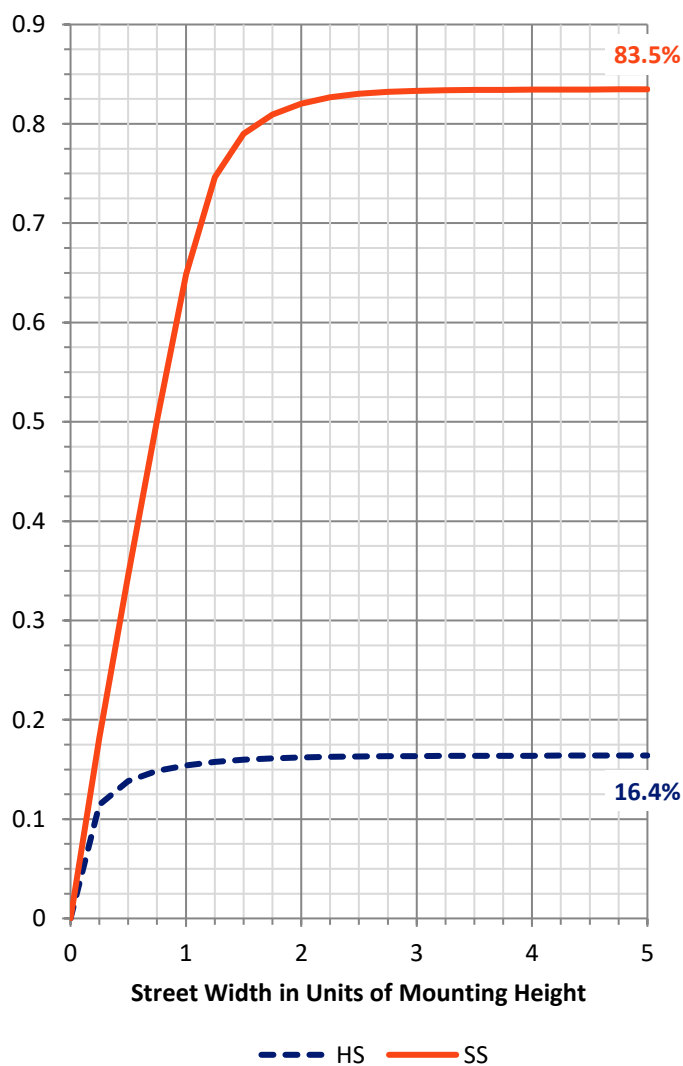
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1141.8	0.0	1141.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5759.2	0.0	5759.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	6901.0	0.0	6901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	3.1
10°-20°	487.6	7.1
20°-30°	693.0	10.0
30°-40°	1069.4	15.5
40°-50°	1676.7	24.3
50°-60°	1947.8	28.2
60°-70°	736.0	10.7
70°-80°	70.0	1.0
80°-90°	7.9	0.1
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°	6901.0	100.0
0°-180°	6901.0	100.0

Coefficient of Utilization

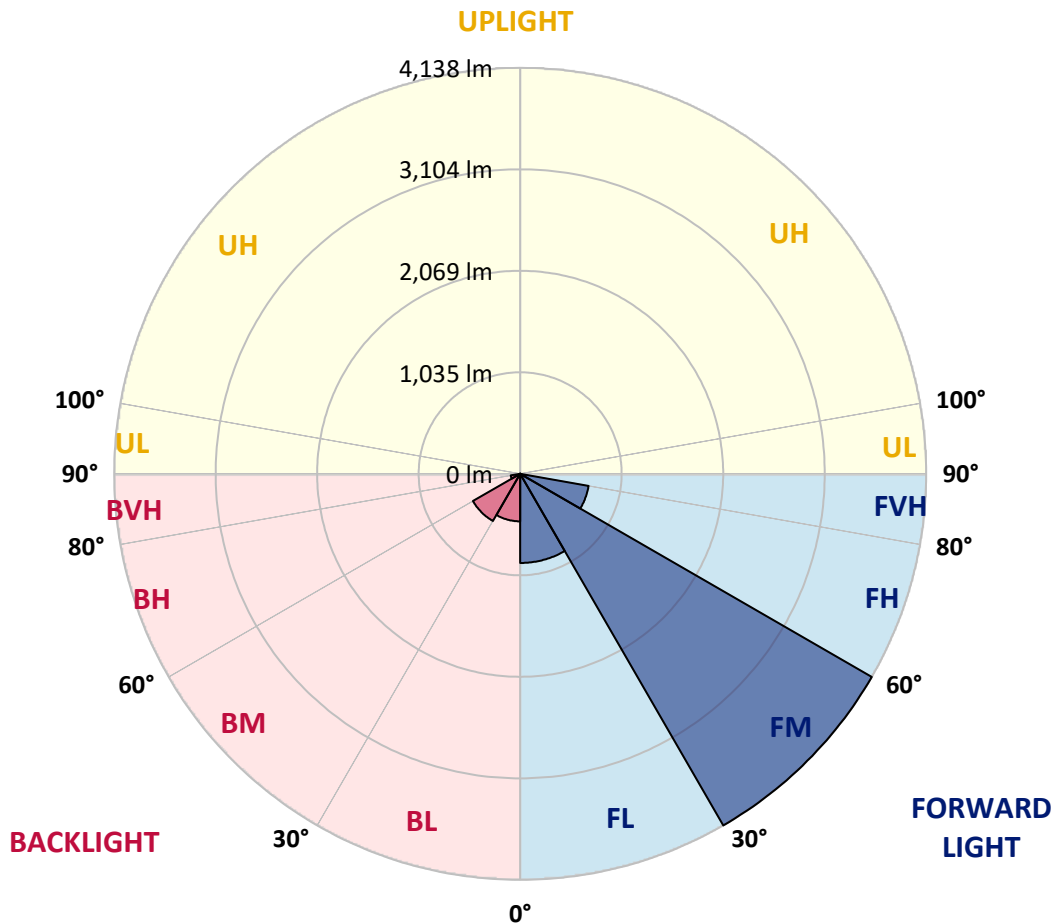


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.7	13.2			
FM (30°-60°)	4138.3	60.0			
FH (60°-80°)	708.1	10.3			G1/1800
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	484.5	7.0	B1/500		
BM (30°-60°)	555.6	8.1	B1/1000		
BH (60°-80°)	97.8	1.4	B0/110		G0/110
BVH (80°-90°)	3.8	0.1			G0/10
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°	53°	55°	65°	75°	85°
0°	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7
2.5°	2465.9	2444.0	2465.9	2468.4	2483.9	2498.0	2489.0	2509.6	2498.0	2485.2	2481.3
5°	2266.6	2296.2	2297.4	2343.7	2333.4	2418.3	2455.6	2445.3	2508.3	2504.4	2495.4
7.5°	2087.9	2076.3	2091.7	2145.7	2213.9	2311.6	2365.6	2364.3	2454.3	2518.6	2512.1
10°	1922.0	1920.8	1952.9	1995.3	2053.2	2156.0	2230.6	2267.9	2408.0	2505.7	2519.9
12.5°	1810.2	1805.0	1839.8	1874.5	1965.8	2045.5	2140.6	2158.6	2319.3	2460.7	2483.9
15°	1736.9	1748.5	1751.0	1817.9	1875.8	1981.2	2055.7	2093.0	2278.2	2424.7	2513.4
17.5°	1724.0	1739.5	1740.8	1796.0	1857.8	1946.5	2012.0	2062.2	2243.4	2442.7	2514.7
20°	1749.8	1740.8	1748.5	1783.2	1843.6	1928.5	2023.6	2040.3	2231.9	2451.7	2528.9
22.5°	1823.0	1820.5	1801.2	1829.5	1871.9	1960.6	2050.6	2076.3	2265.3	2498.0	2540.4
25°	1904.0	1918.2	1900.2	1896.3	1925.9	2013.3	2132.9	2166.3	2377.2	2581.6	2576.4
27.5°	2055.7	2041.6	2041.6	2023.6	2015.9	2058.3	2221.6	2276.9	2501.9	2689.6	2617.6
30°	2201.0	2216.5	2204.9	2211.3	2159.9	2156.0	2347.6	2415.7	2723.0	2854.1	2705.0
32.5°	2431.2	2410.6	2429.9	2413.2	2345.0	2275.6	2518.6	2589.3	2990.4	3043.1	2836.1
35°	2622.7	2613.7	2696.0	2693.4	2582.9	2514.7	2699.9	2805.3	3176.8	3269.4	2990.4
37.5°	2895.3	2878.6	2972.4	3017.4	2918.4	2816.8	2959.6	3081.7	3350.4	3450.7	3148.5
40°	3175.5	3218.0	3344.0	3418.5	3313.1	3178.1	3277.1	3314.4	3466.1	3568.9	3256.5
42.5°	3530.4	3592.1	3720.7	3784.9	3775.9	3629.4	3599.8	3598.5	3549.7	3535.5	3336.2
45°	3871.1	3847.9	4045.9	4186.1	4299.2	4256.8	3910.9	3872.4	3682.1	3585.7	3356.8
47.5°	4020.2	4012.5	4147.5	4396.9	4782.6	4835.3	4363.5	4214.3	3905.8	3796.5	3468.7
50°	3827.4	3867.2	4000.9	4277.3	4868.7	5271.1	4918.9	4718.3	4166.8	4053.6	3733.5
52.5°	3197.4	3224.4	3351.7	3702.7	4575.6	5528.3	5451.1	5335.4	4646.3	4458.6	4195.1
54°	2629.1	2701.1	2770.6	3122.8	4053.6	5385.6	5743.0	5654.3	4958.7	4795.5	4485.6
55°	2289.7	2332.2	2382.3	2733.3	3692.4	5143.9	5709.5	5717.3	5168.3	4900.9	4681.0
57.5°	1672.6	1702.2	1650.8	1806.3	2535.3	4177.1	5222.3	5430.6	5451.1	5059.0	4800.6
60°	1277.9	1290.8	1232.9	1257.4	1576.2	2867.0	4039.5	4290.2	4917.6	4421.3	4066.5
62.5°	991.2	993.8	992.5	1034.9	1086.4	1686.8	2526.3	2748.7	3390.2	3139.5	2761.6
65°	730.2	718.7	739.2	867.8	926.9	1060.7	1330.6	1492.6	1842.3	1555.6	1112.1
67.5°	473.1	477.0	497.5	645.4	794.5	813.8	819.0	806.1	807.4	444.8	279.0
70°	284.1	290.6	284.1	365.1	568.3	583.7	533.5	520.7	406.3	105.4	104.1
72.5°	168.4	159.4	142.7	156.8	236.6	282.8	254.6	253.3	159.4	61.7	61.7
75°	70.7	64.3	52.7	47.6	63.0	60.4	60.4	54.0	42.4	41.1	38.6
77.5°	14.1	14.1	10.3	11.6	15.4	18.0	21.9	21.9	25.7	25.7	24.4
80°	0.0	1.3	3.9	7.7	11.6	16.7	19.3	19.3	21.9	21.9	18.0
82.5°	0.0	1.3	3.9	7.7	10.3	15.4	19.3	19.3	21.9	23.1	19.3
85°	0.0	1.3	3.9	6.4	10.3	12.9	12.9	11.6	9.0	7.7	5.1
87.5°	0.0	0.0	1.3	2.6	1.3	2.6	2.6	2.6	2.6	2.6	2.6
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°	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7	2478.7
2.5°	2490.3	2489.0	2458.2	2408.0	2396.4	2354.0	2348.9	2323.2	2337.3	2289.7	2284.6
5°	2469.7	2454.3	2417.0	2384.9	2291.0	2224.2	2171.5	2107.2	2069.9	2076.3	2051.9
7.5°	2499.3	2459.4	2393.9	2282.0	2167.6	2050.6	1987.6	1856.5	1808.9	1738.2	1727.9
10°	2468.4	2438.9	2337.3	2152.2	1994.0	1825.6	1677.8	1532.5	1421.9	1374.4	1364.1
12.5°	2465.9	2414.4	2244.7	2039.0	1810.2	1568.5	1353.8	1172.5	1063.2	1001.5	987.4
15°	2426.0	2364.3	2140.6	1864.2	1547.9	1247.1	1013.1	838.2	754.7	718.7	729.0
17.5°	2429.9	2337.3	2036.5	1679.1	1289.5	915.4	691.7	601.7	579.8	588.8	588.8
20°	2426.0	2276.9	1910.5	1465.6	987.4	635.1	507.8	475.7	489.8	518.1	511.7
22.5°	2405.4	2248.6	1794.8	1240.6	726.4	470.5	407.5	408.8	430.7	465.4	473.1
25°	2420.9	2185.6	1648.2	1013.1	529.7	375.4	353.6	362.6	385.7	411.4	416.5
27.5°	2409.3	2140.6	1495.2	786.8	387.0	322.7	321.4	331.7	342.0	361.3	361.3
30°	2422.2	2099.5	1344.8	585.0	318.8	295.7	290.6	298.3	308.6	312.4	311.1
32.5°	2469.7	2068.6	1171.2	437.1	281.6	270.0	270.0	270.0	268.7	273.8	275.1
35°	2573.9	2073.7	1018.2	338.1	257.1	248.1	244.3	239.1	236.6	239.1	240.4
37.5°	2687.0	2071.2	860.1	288.0	239.1	231.4	222.4	214.7	213.4	216.0	212.1
40°	2737.1	2095.6	713.5	258.4	222.4	213.4	199.3	192.8	194.1	196.7	194.1
42.5°	2805.3	2103.3	618.4	235.3	207.0	192.8	183.8	176.1	174.8	178.7	177.4
45°	2804.0	2059.6	518.1	222.4	192.8	177.4	165.8	159.4	159.4	162.0	163.3
47.5°	2886.3	2053.2	444.8	210.8	182.6	167.1	153.0	147.8	146.6	146.6	144.0
50°	3077.8	2143.2	388.3	198.0	169.7	155.6	144.0	137.6	132.4	129.9	128.6
52.5°	3452.0	2423.4	344.6	182.6	155.6	144.0	133.7	128.6	122.1	115.7	114.4
54°	3814.5	2712.7	342.0	169.7	144.0	136.3	127.3	124.7	117.0	108.0	105.4
55°	3977.8	2881.1	351.0	159.4	136.3	131.1	123.4	120.9	113.1	102.9	101.6
57.5°	4112.8	2946.7	345.8	132.4	123.4	122.1	115.7	111.9	102.9	88.7	86.1
60°	3310.5	2228.0	248.1	117.0	113.1	110.6	105.4	102.9	91.3	75.9	74.6
62.5°	2091.7	1281.8	158.1	102.9	99.0	95.1	88.7	86.1	75.9	60.4	56.6
65°	891.0	531.0	106.7	91.3	84.9	78.4	73.3	69.4	60.4	45.0	43.7
67.5°	231.4	189.0	88.7	79.7	70.7	61.7	57.9	51.4	41.1	30.9	29.6
70°	104.1	95.1	74.6	66.9	56.6	47.6	42.4	36.0	27.0	20.6	19.3
72.5°	61.7	60.4	56.6	50.1	42.4	36.0	30.9	24.4	18.0	11.6	11.6
75°	38.6	37.3	38.6	34.7	29.6	27.0	23.1	16.7	10.3	5.1	5.1
77.5°	23.1	23.1	23.1	21.9	20.6	20.6	16.7	10.3	5.1	1.3	1.3
80°	18.0	18.0	19.3	18.0	18.0	18.0	14.1	7.7	2.6	0.0	0.0
82.5°	18.0	19.3	21.9	20.6	18.0	15.4	12.9	7.7	2.6	0.0	0.0
85°	5.1	3.9	6.4	9.0	12.9	11.6	9.0	6.4	2.6	0.0	0.0
87.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	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)