

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: STREETWORKS

Report Number: P527685

Luminaire Tested: **GLAN-SA2D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527685  
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: STREETWORKS  
Catalog Number: GLAN-SA2D-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 7594 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

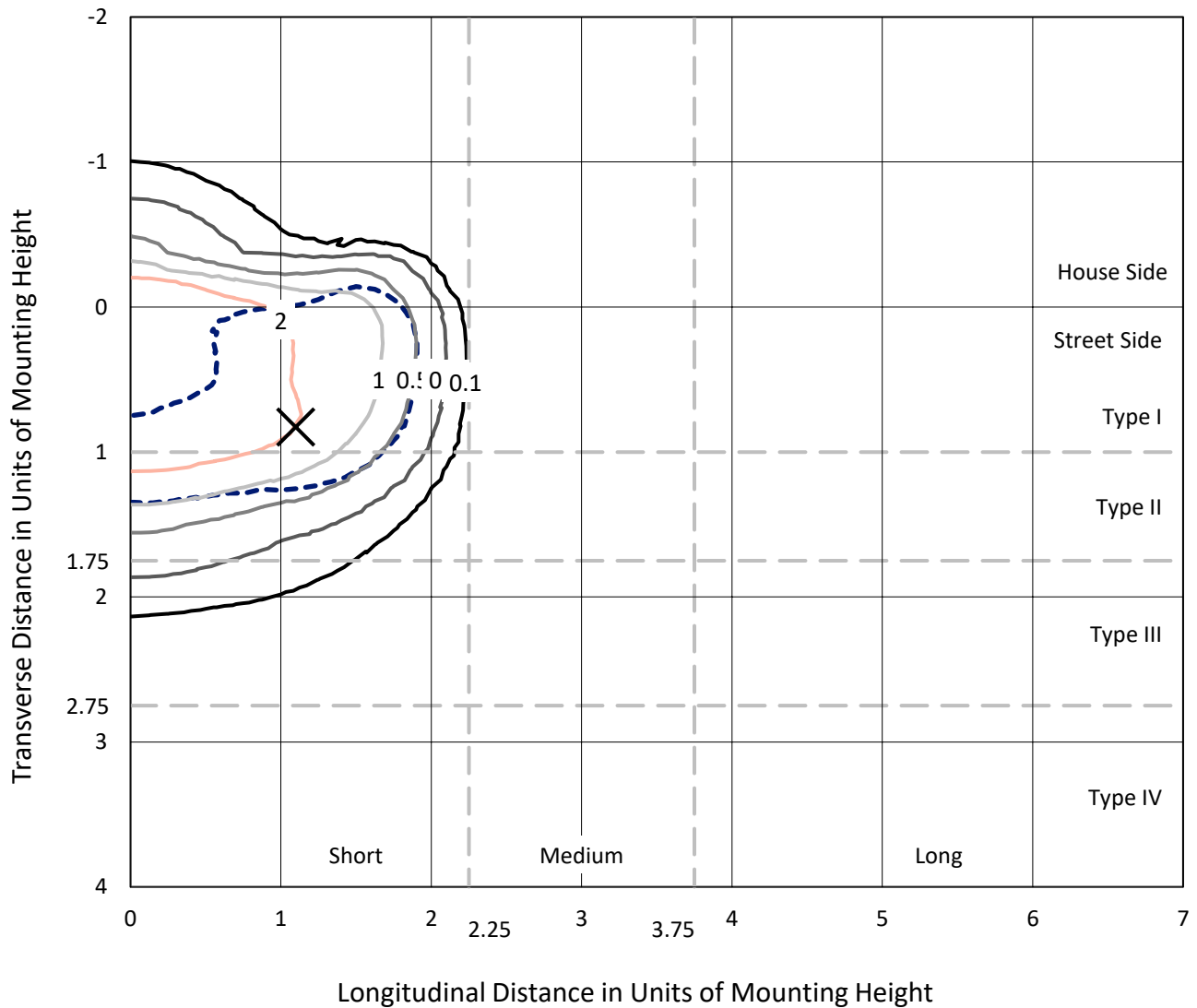
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

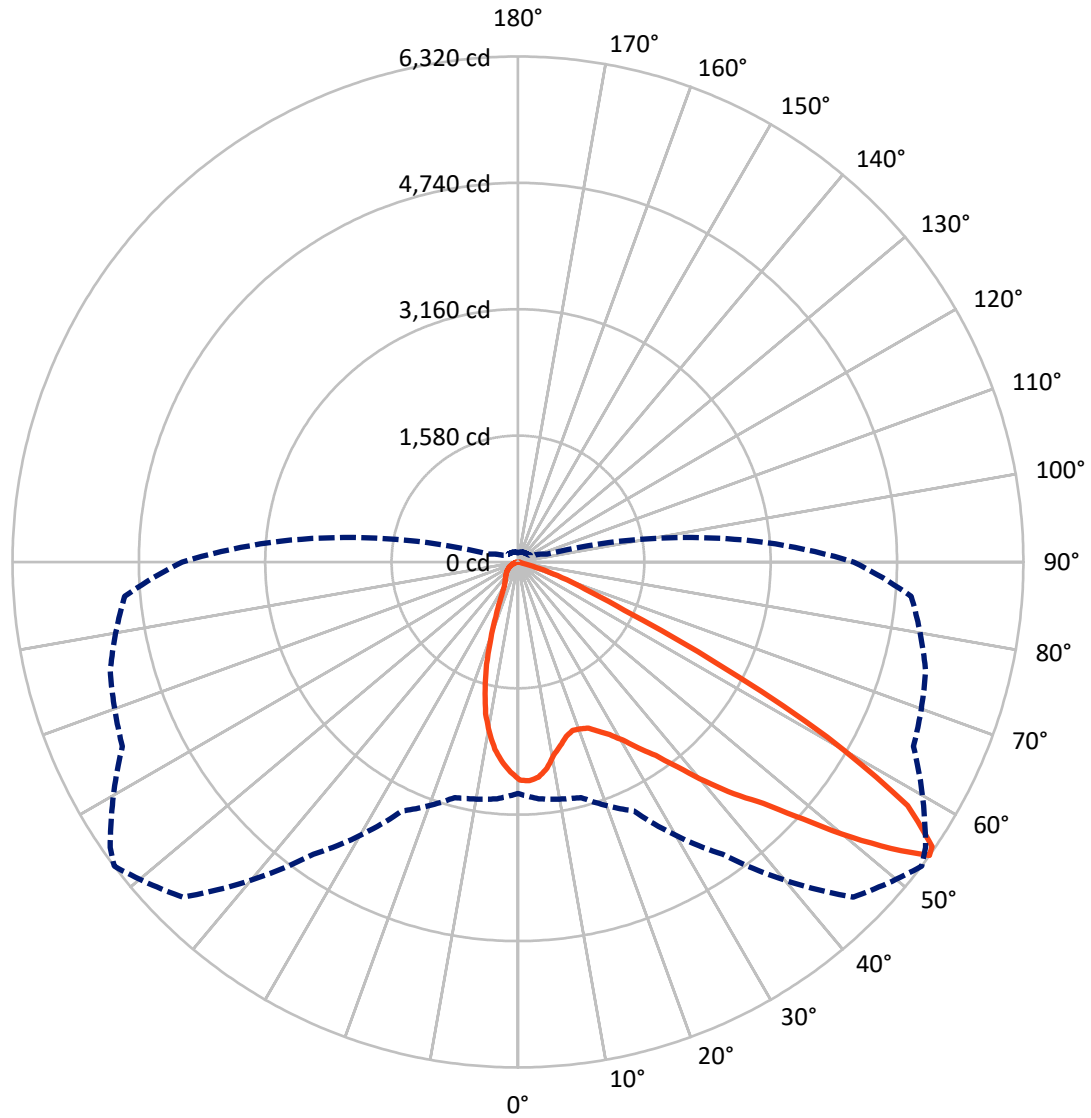
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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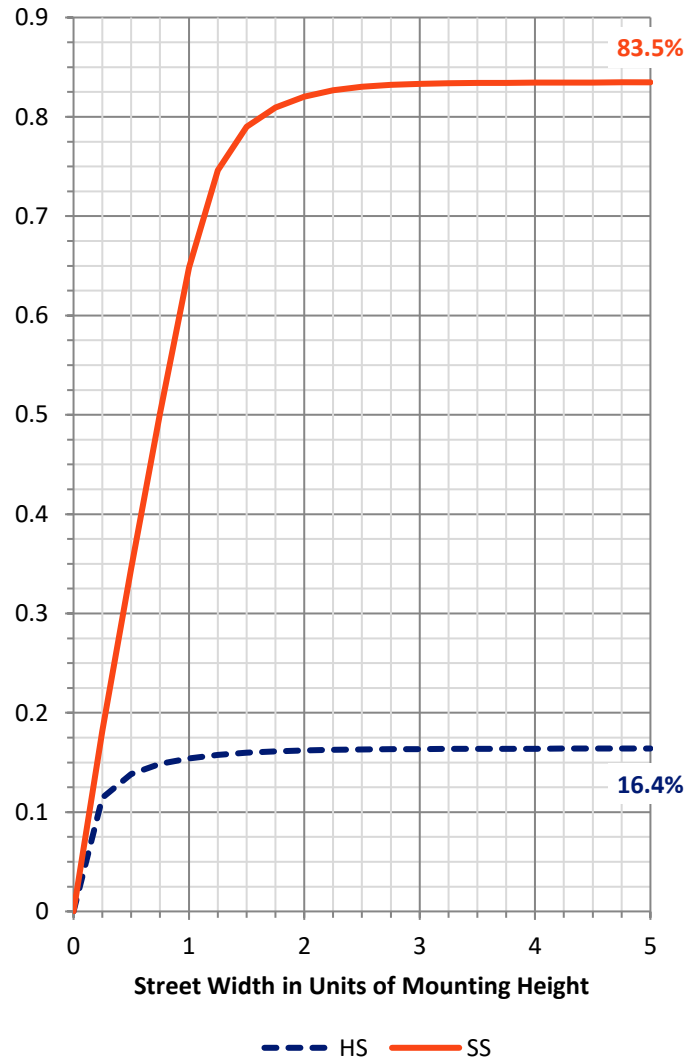
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1256.4	0.0	1256.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	6337.5	0.0	6337.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	7594.0	0.0	7594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.0	3.1
10°-20°	536.5	7.1
20°-30°	762.5	10.0
30°-40°	1176.8	15.5
40°-50°	1845.1	24.3
50°-60°	2143.4	28.2
60°-70°	809.9	10.7
70°-80°	77.0	1.0
80°-90°	8.7	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°	7594.0	100.0
0°-180°	7594.0	100.0

**Coefficient of Utilization**



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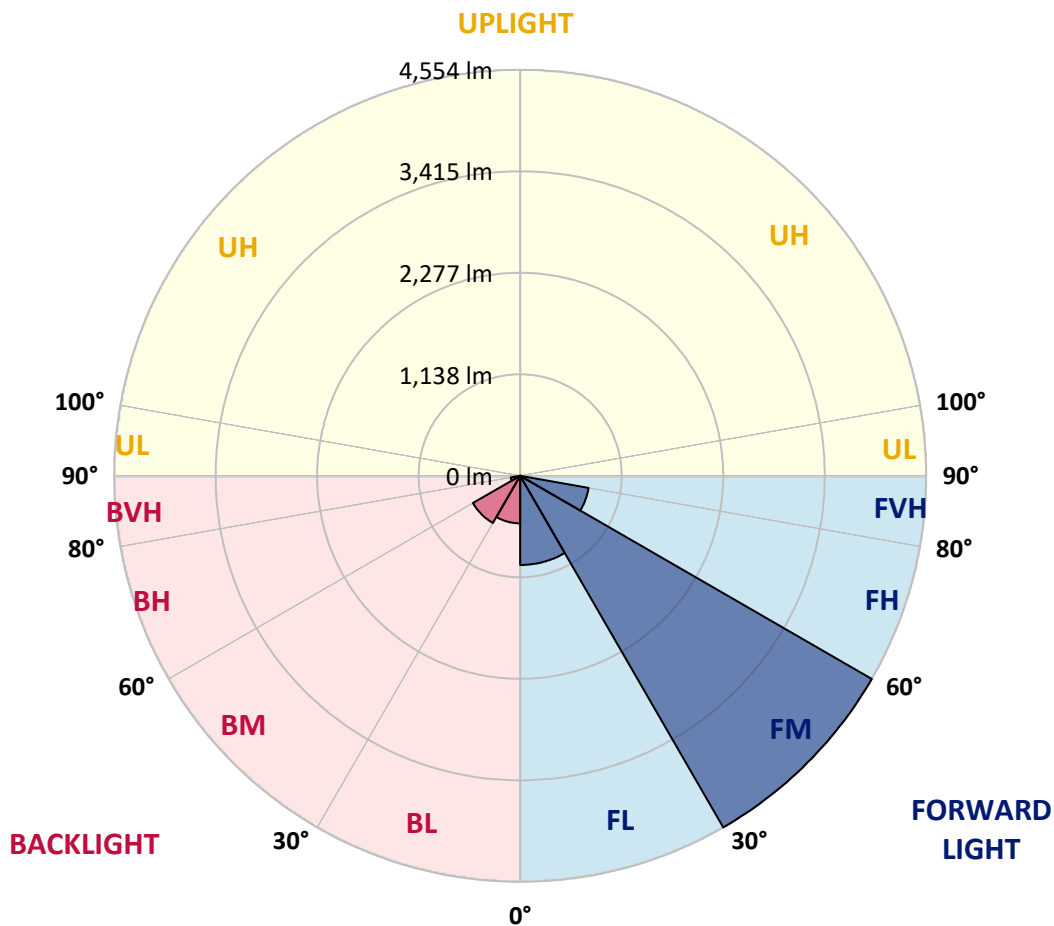
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.9	13.2			
FM (30°-60°)	4553.9	60.0			
FH (60°-80°)	779.3	10.3			G1/1800
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	533.2	7.0	B2/1000		
BM (30°-60°)	611.4	8.1	B1/1000		
BH (60°-80°)	107.6	1.4	B0/110		G0/110
BVH (80°-90°)	4.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6
2.5°	2713.5	2689.4	2713.5	2716.3	2733.3	2748.9	2739.0	2761.6	2748.9	2734.7	2730.5
5°	2494.2	2526.7	2528.2	2579.1	2567.8	2661.1	2702.2	2690.9	2760.2	2755.9	2746.0
7.5°	2297.6	2284.8	2301.8	2361.2	2436.2	2543.7	2603.1	2601.7	2700.8	2771.5	2764.4
10°	2115.1	2113.6	2149.0	2195.7	2259.4	2372.5	2454.6	2495.6	2649.8	2757.3	2772.9
12.5°	1992.0	1986.3	2024.5	2062.7	2163.2	2250.9	2355.6	2375.4	2552.2	2707.8	2733.3
15°	1911.3	1924.1	1926.9	2000.5	2064.1	2180.1	2262.2	2303.2	2506.9	2668.2	2765.8
17.5°	1897.2	1914.2	1915.6	1976.4	2044.3	2141.9	2214.1	2269.3	2468.7	2688.0	2767.2
20°	1925.5	1915.6	1924.1	1962.3	2028.8	2122.1	2226.8	2245.2	2456.0	2697.9	2782.8
22.5°	2006.1	2003.3	1982.1	2013.2	2059.9	2157.5	2256.5	2284.8	2492.8	2748.9	2795.5
25°	2095.2	2110.8	2091.0	2086.8	2119.3	2215.5	2347.1	2383.9	2615.9	2840.8	2835.2
27.5°	2262.2	2246.6	2246.6	2226.8	2218.3	2265.0	2444.7	2505.5	2753.1	2959.7	2880.4
30°	2422.1	2439.0	2426.3	2433.4	2376.8	2372.5	2583.3	2658.3	2996.4	3140.7	2976.6
32.5°	2675.3	2652.7	2673.9	2655.5	2580.5	2504.1	2771.5	2849.3	3290.7	3348.7	3120.9
35°	2886.1	2876.2	2966.7	2963.9	2842.2	2767.2	2971.0	3087.0	3495.8	3597.7	3290.7
37.5°	3186.0	3167.6	3270.9	3320.4	3211.5	3099.7	3256.8	3391.2	3686.8	3797.2	3464.7
40°	3494.4	3541.1	3679.8	3761.8	3645.8	3497.3	3606.2	3647.2	3814.2	3927.3	3583.6
42.5°	3884.9	3952.8	4094.3	4165.0	4155.1	3993.8	3961.3	3959.9	3906.1	3890.6	3671.3
45°	4259.8	4234.3	4452.2	4606.4	4730.9	4684.2	4303.7	4261.2	4051.8	3945.7	3693.9
47.5°	4423.9	4415.4	4564.0	4838.4	5262.9	5320.9	4801.7	4637.5	4298.0	4177.8	3817.0
50°	4211.7	4255.6	4402.7	4706.9	5357.7	5800.5	5412.8	5192.1	4585.2	4460.7	4108.4
52.5°	3518.5	3548.2	3688.3	4074.5	5035.1	6083.4	5998.5	5871.2	5112.9	4906.4	4616.3
54°	2893.2	2972.4	3048.8	3436.4	4460.7	5926.4	6319.7	6222.1	5456.7	5277.0	4936.1
55°	2519.7	2566.4	2621.5	3007.8	4063.2	5660.4	6282.9	6291.4	5687.3	5393.0	5151.1
57.5°	1840.6	1873.1	1816.5	1987.7	2789.9	4596.5	5746.7	5975.9	5998.5	5567.0	5282.7
60°	1406.3	1420.4	1356.7	1383.6	1734.5	3154.9	4445.1	4721.0	5411.4	4865.3	4474.9
62.5°	1090.8	1093.6	1092.2	1138.9	1195.5	1856.2	2780.0	3024.7	3730.7	3454.8	3038.9
65°	803.6	790.8	813.5	955.0	1020.0	1167.2	1464.3	1642.5	2027.3	1711.8	1223.8
67.5°	520.6	524.9	547.5	710.2	874.3	895.5	901.2	887.0	888.5	489.5	307.0
70°	312.7	319.7	312.7	401.8	625.3	642.3	587.1	573.0	447.1	116.0	114.6
72.5°	185.3	175.4	157.0	172.6	260.3	311.2	280.1	278.7	175.4	67.9	67.9
75°	77.8	70.7	58.0	52.3	69.3	66.5	66.5	59.4	46.7	45.3	42.4
77.5°	15.6	15.6	11.3	12.7	17.0	19.8	24.1	24.1	28.3	28.3	26.9
80°	0.0	1.4	4.2	8.5	12.7	18.4	21.2	21.2	24.1	24.1	19.8
82.5°	0.0	1.4	4.2	8.5	11.3	17.0	21.2	21.2	24.1	25.5	21.2
85°	0.0	1.4	4.2	7.1	11.3	14.1	14.1	12.7	9.9	8.5	5.7
87.5°	0.0	0.0	1.4	2.8	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6	2727.6
2.5°	2740.4	2739.0	2705.0	2649.8	2637.1	2590.4	2584.7	2556.5	2572.0	2519.7	2514.0
5°	2717.7	2700.8	2659.7	2624.4	2521.1	2447.5	2389.5	2318.8	2277.7	2284.8	2257.9
7.5°	2750.3	2706.4	2634.3	2511.2	2385.3	2256.5	2187.2	2042.9	1990.6	1912.7	1901.4
10°	2716.3	2683.8	2572.0	2368.3	2194.3	2008.9	1846.2	1686.4	1564.7	1512.4	1501.0
12.5°	2713.5	2656.9	2470.2	2243.8	1992.0	1726.0	1489.7	1290.3	1170.0	1102.1	1086.5
15°	2669.6	2601.7	2355.6	2051.4	1703.4	1372.3	1114.8	922.4	830.5	790.8	802.2
17.5°	2673.9	2572.0	2241.0	1847.7	1419.0	1007.3	761.1	662.1	638.1	648.0	648.0
20°	2669.6	2505.5	2102.3	1612.8	1086.5	698.9	558.8	523.5	539.0	570.1	563.1
22.5°	2647.0	2474.4	1975.0	1365.2	799.3	517.8	448.5	449.9	473.9	512.1	520.6
25°	2664.0	2405.1	1813.7	1114.8	582.9	413.1	389.1	399.0	424.4	452.7	458.4
27.5°	2651.2	2355.6	1645.4	865.8	425.8	355.1	353.7	365.0	376.3	397.5	397.5
30°	2665.4	2310.3	1479.8	643.7	350.9	325.4	319.7	328.2	339.5	343.8	342.4
32.5°	2717.7	2276.3	1288.8	481.0	309.8	297.1	297.1	297.1	295.7	301.3	302.8
35°	2832.3	2282.0	1120.5	372.1	282.9	273.0	268.8	263.1	260.3	263.1	264.6
37.5°	2956.8	2279.2	946.5	316.9	263.1	254.7	244.8	236.3	234.8	237.7	233.4
40°	3012.0	2306.0	785.2	284.4	244.8	234.8	219.3	212.2	213.6	216.5	213.6
42.5°	3087.0	2314.5	680.5	258.9	227.8	212.2	202.3	193.8	192.4	196.7	195.2
45°	3085.6	2266.4	570.1	244.8	212.2	195.2	182.5	175.4	175.4	178.3	179.7
47.5°	3176.1	2259.4	489.5	232.0	200.9	183.9	168.4	162.7	161.3	161.3	158.5
50°	3386.9	2358.4	427.3	217.9	186.7	171.2	158.5	151.4	145.7	142.9	141.5
52.5°	3798.6	2666.8	379.2	200.9	171.2	158.5	147.1	141.5	134.4	127.3	125.9
54°	4197.6	2985.1	376.3	186.7	158.5	150.0	140.1	137.2	128.7	118.8	116.0
55°	4377.2	3170.5	386.2	175.4	150.0	144.3	135.8	133.0	124.5	113.2	111.8
57.5°	4525.8	3242.6	380.6	145.7	135.8	134.4	127.3	123.1	113.2	97.6	94.8
60°	3643.0	2451.8	273.0	128.7	124.5	121.7	116.0	113.2	100.4	83.5	82.1
62.5°	2301.8	1410.5	174.0	113.2	108.9	104.7	97.6	94.8	83.5	66.5	62.2
65°	980.4	584.3	117.4	100.4	93.4	86.3	80.6	76.4	66.5	49.5	48.1
67.5°	254.7	208.0	97.6	87.7	77.8	67.9	63.7	56.6	45.3	34.0	32.5
70°	114.6	104.7	82.1	73.6	62.2	52.3	46.7	39.6	29.7	22.6	21.2
72.5°	67.9	66.5	62.2	55.2	46.7	39.6	34.0	26.9	19.8	12.7	12.7
75°	42.4	41.0	42.4	38.2	32.5	29.7	25.5	18.4	11.3	5.7	5.7
77.5°	25.5	25.5	25.5	24.1	22.6	22.6	18.4	11.3	5.7	1.4	1.4
80°	19.8	19.8	21.2	19.8	19.8	19.8	15.6	8.5	2.8	0.0	0.0
82.5°	19.8	21.2	24.1	22.6	19.8	17.0	14.1	8.5	2.8	0.0	0.0
85°	5.7	4.2	7.1	9.9	14.1	12.7	9.9	7.1	2.8	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	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)