

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: P484124

Luminaire Tested: **IFLD-S-SA3B-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484124
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

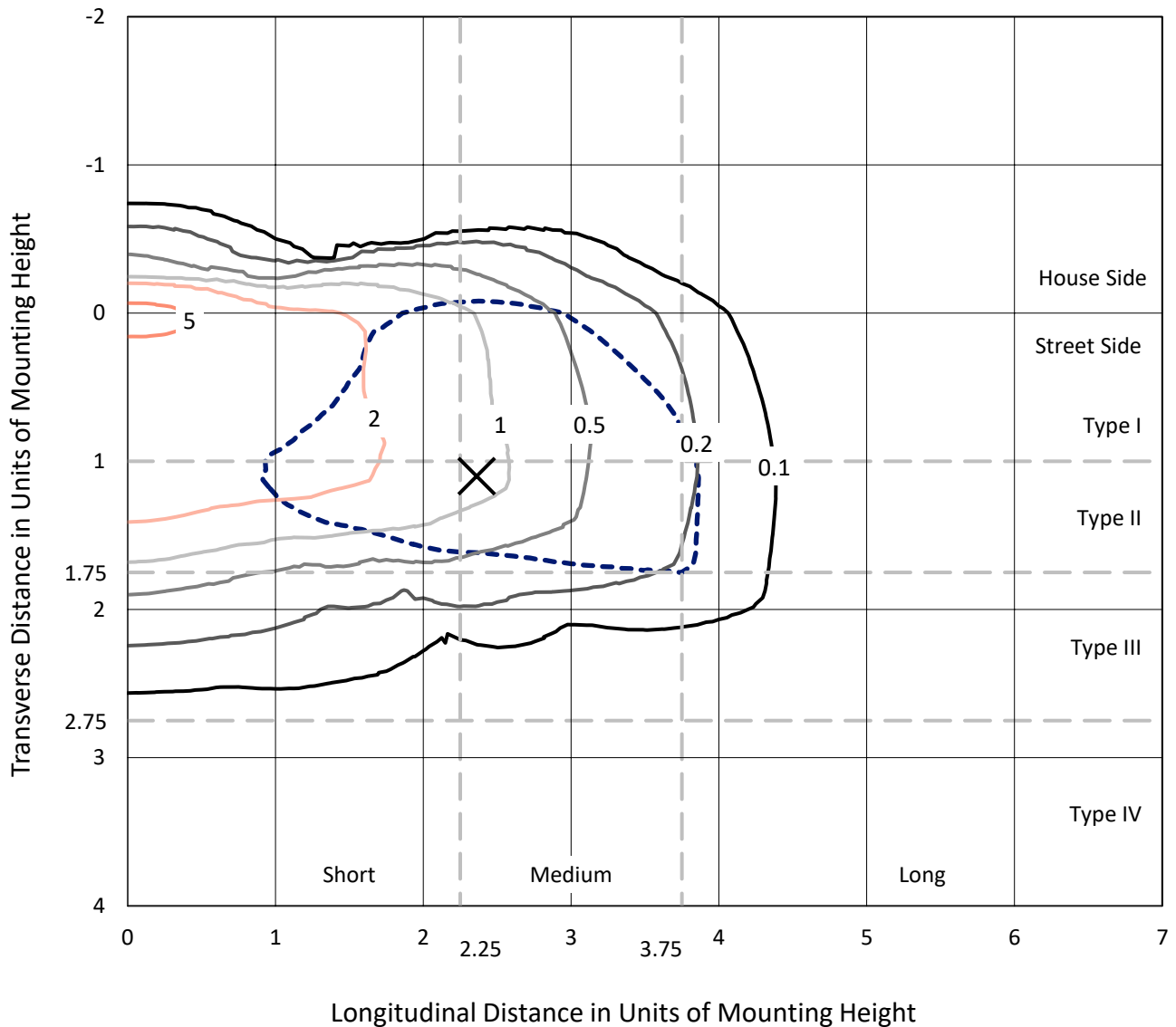
Lumens per Lamp: N/A
Luminaire Lumens: 10295.1 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
Input Voltage (V): 120
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

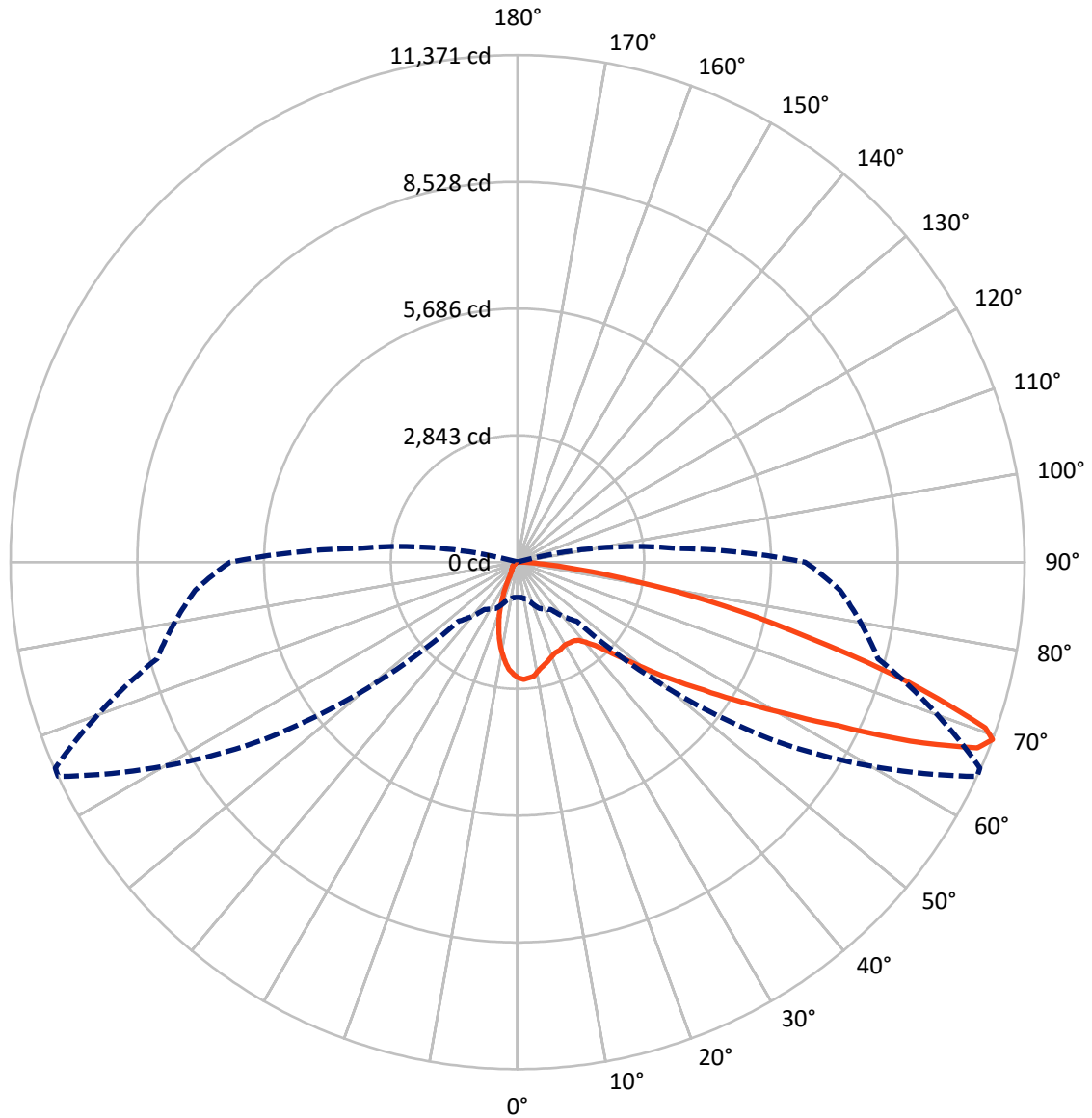
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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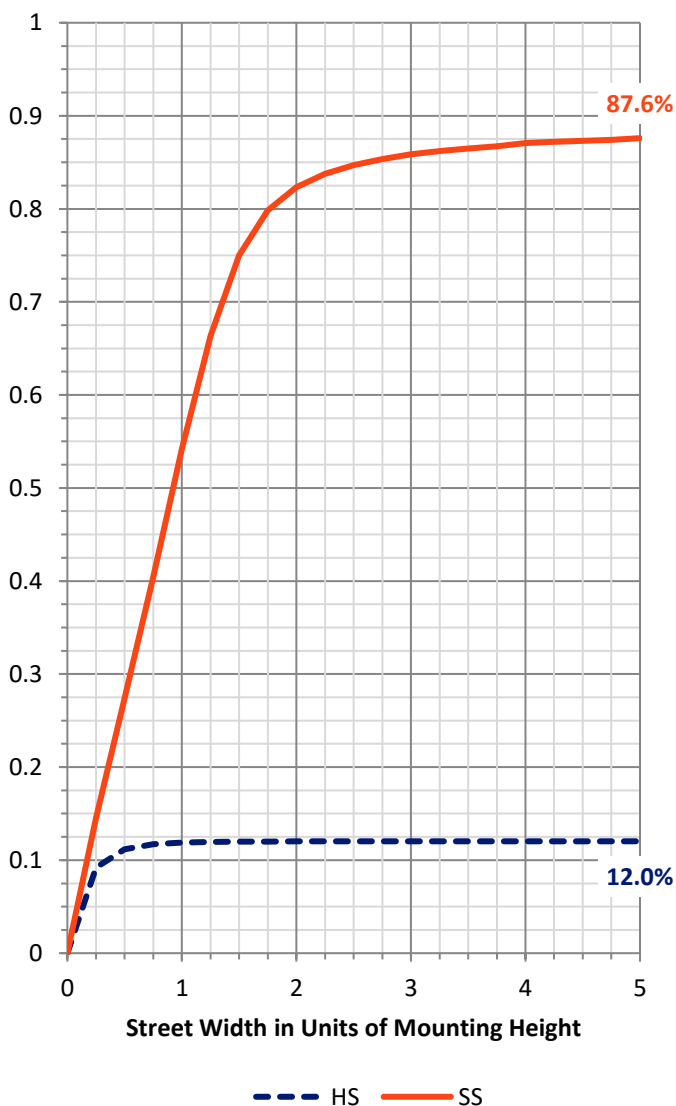
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1248.9	0.0	1248.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9046.2	0.0	9046.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	10295.1	0.0	10295.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	2.1
10°-20°	464.7	4.5
20°-30°	647.0	6.3
30°-40°	916.9	8.9
40°-50°	1445.0	14.0
50°-60°	2344.7	22.8
60°-70°	2618.6	25.4
70°-80°	1474.6	14.3
80°-90°	171.1	1.7
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°	10295.1	100.0
0°-180°	10295.1	100.0

Coefficient of Utilization



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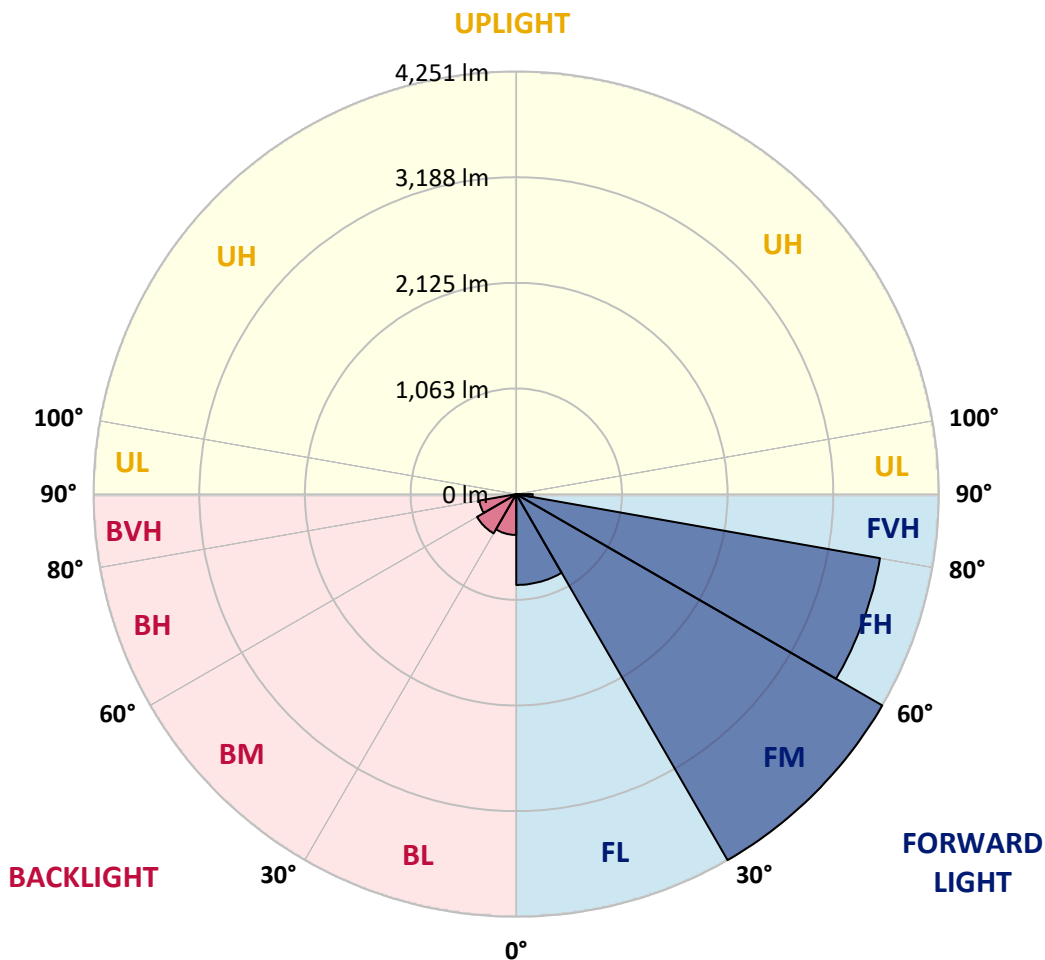
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.6	8.9			
FM (30°-60°)	4250.9	41.3			
FH (60°-80°)	3715.3	36.1			G2/5000
FVH (80°-90°)	166.4	1.6			G2/225
BL (0°-30°)	410.6	4.0	B1/500		
BM (30°-60°)	455.7	4.4	B1/1000		
BH (60°-80°)	377.9	3.7	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6
2.5°	2499.8	2519.2	2524.8	2544.2	2554.0	2595.6	2619.2	2633.1	2626.2	2641.4	2642.8
5°	2322.0	2310.9	2340.1	2360.9	2405.4	2477.6	2551.2	2608.1	2634.5	2659.5	2655.3
7.5°	2131.8	2126.2	2155.4	2202.6	2242.9	2330.4	2448.4	2588.7	2583.1	2644.2	2662.3
10°	2001.2	2006.8	2016.5	2063.7	2123.4	2212.3	2359.5	2490.1	2519.2	2648.4	2684.5
12.5°	1881.8	1891.5	1909.6	1958.2	2027.6	2119.3	2262.3	2415.1	2459.5	2624.8	2697.0
15°	1842.9	1820.7	1856.8	1892.9	1965.1	2047.1	2167.9	2358.1	2377.6	2597.0	2717.8
17.5°	1811.0	1797.1	1813.7	1842.9	1919.3	1985.9	2099.8	2297.0	2333.1	2585.9	2715.1
20°	1820.7	1808.2	1815.1	1837.3	1872.1	1934.6	2040.1	2238.7	2277.6	2534.5	2710.9
22.5°	1848.5	1858.2	1845.7	1851.2	1862.3	1894.3	2008.2	2197.0	2230.4	2524.8	2734.5
25°	1973.4	1956.8	1940.1	1933.2	1867.9	1881.8	1998.4	2194.3	2217.9	2490.1	2715.1
27.5°	2104.0	2090.1	2083.2	2042.9	1954.0	1912.3	1999.8	2155.4	2187.3	2476.2	2691.4
30°	2262.3	2280.4	2252.6	2204.0	2080.4	1977.6	2015.1	2135.9	2180.4	2423.4	2676.2
32.5°	2429.0	2438.7	2452.6	2416.5	2256.8	2076.2	2060.9	2154.0	2156.8	2423.4	2641.4
35°	2617.8	2604.0	2640.1	2642.8	2502.6	2251.2	2148.4	2166.5	2195.7	2412.3	2628.9
37.5°	2780.3	2803.9	2845.6	2912.3	2767.8	2498.4	2284.5	2224.8	2237.3	2463.7	2638.7
40°	2958.1	2981.7	3076.1	3142.8	3060.9	2776.2	2491.5	2360.9	2370.6	2540.1	2688.7
42.5°	3153.9	3199.7	3312.2	3428.9	3406.7	3128.9	2758.1	2560.9	2556.7	2730.3	2791.4
45°	3419.2	3480.3	3602.5	3737.2	3756.6	3533.0	3113.6	2859.5	2873.4	2978.9	3003.9
47.5°	3788.6	3785.8	3905.2	4055.2	4167.7	3952.4	3538.6	3260.8	3259.5	3371.9	3319.2
50°	4145.5	4146.9	4178.8	4352.4	4644.1	4534.3	4064.9	3794.1	3778.9	3834.4	3749.7
52.5°	4310.8	4291.3	4267.7	4477.4	5010.7	5267.6	4731.6	4398.2	4385.7	4352.4	4330.2
55°	4137.2	4144.1	4142.7	4360.7	5203.7	6041.2	5587.0	5063.5	5042.6	4938.5	4969.0
57.5°	3580.3	3558.0	3606.6	3946.9	4982.9	6568.9	6810.5	5902.3	5848.1	5502.3	5432.9
60°	2665.1	2672.0	2712.3	3113.6	4434.4	6680.0	7981.3	6886.9	6653.6	5899.5	5803.7
62.5°	1861.0	1847.1	1862.3	2087.3	3170.6	6235.6	8772.9	8084.1	7859.1	6350.9	6295.3
65°	1331.8	1313.8	1374.9	1512.4	1904.0	4767.7	8885.4	9678.4	9477.0	7071.6	6938.3
67.5°	958.3	955.5	1026.3	1276.3	1352.7	2745.6	8052.1	11122.7	11000.5	7927.1	7329.9
69°	793.0	794.4	862.4	1143.0	1291.6	1874.8	6928.6	11371.3	11349.1	8368.8	7256.3
70°	691.6	697.2	776.3	1063.8	1266.6	1541.5	5973.1	11126.9	11104.6	8454.9	7013.3
72.5°	426.4	430.5	534.7	852.7	1204.1	1258.2	3571.9	9103.4	9179.8	8060.4	6042.6
75°	204.1	205.5	280.5	616.6	1161.0	1193.0	1913.7	6717.5	6878.6	6507.8	4721.8
77.5°	108.3	108.3	134.7	327.8	940.2	1122.1	1136.0	4738.5	4871.8	4114.9	2684.5
80°	54.2	55.6	81.9	170.8	583.3	1099.9	887.4	2826.2	2898.4	1679.0	836.0
82.5°	20.8	22.2	38.9	102.8	302.8	929.1	779.1	1390.2	1372.1	393.0	204.1
85°	2.8	2.8	13.9	61.1	129.2	409.7	643.0	580.5	561.1	86.1	98.6
87.5°	0.0	0.0	2.8	18.1	38.9	119.4	248.6	159.7	177.8	23.6	48.6
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°	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6	2595.6
2.5°	2635.9	2606.7	2562.3	2519.2	2473.4	2417.9	2356.7	2334.5	2295.6	2292.9	2315.1
5°	2633.1	2585.9	2508.1	2416.5	2285.9	2187.3	2080.4	2002.6	1942.9	1904.0	1913.7
7.5°	2647.0	2590.1	2455.4	2258.1	2090.1	1894.3	1729.0	1615.1	1511.0	1459.6	1454.0
10°	2624.8	2548.4	2351.2	2074.8	1827.6	1554.0	1312.4	1159.6	1004.1	947.1	949.9
12.5°	2637.3	2530.3	2238.7	1886.0	1545.7	1190.2	901.3	693.0	547.2	500.0	494.4
15°	2645.6	2491.5	2130.4	1659.6	1233.2	811.0	522.2	393.0	347.2	338.9	337.5
17.5°	2613.7	2444.2	1977.6	1436.0	913.8	493.0	347.2	320.8	312.5	306.9	304.1
20°	2612.3	2416.5	1845.7	1206.8	609.7	336.1	300.0	290.3	277.8	273.6	273.6
22.5°	2588.7	2358.1	1687.4	955.5	388.9	288.9	269.4	254.1	240.3	234.7	233.3
25°	2581.7	2290.1	1538.8	718.0	295.8	258.3	238.9	216.6	200.0	191.7	187.5
27.5°	2562.3	2231.8	1388.8	505.5	258.3	230.5	205.5	181.9	162.5	150.0	148.6
30°	2492.8	2170.7	1222.1	350.0	234.7	204.1	176.4	148.6	129.2	120.8	118.0
32.5°	2463.7	2113.7	1040.2	269.4	213.9	180.5	148.6	123.6	108.3	100.0	98.6
35°	2429.0	2030.4	863.8	234.7	194.4	156.9	125.0	104.2	91.7	84.7	84.7
37.5°	2433.1	1963.7	698.6	212.5	173.6	134.7	106.9	88.9	77.8	70.8	70.8
40°	2420.6	1911.0	543.0	193.0	154.2	115.3	90.3	75.0	65.3	58.3	56.9
42.5°	2477.6	1897.1	409.7	176.4	134.7	98.6	77.8	63.9	54.2	45.8	45.8
45°	2573.4	1919.3	319.4	161.1	115.3	84.7	66.7	52.8	43.1	37.5	36.1
47.5°	2828.9	2006.8	250.0	148.6	98.6	73.6	55.6	43.1	34.7	29.2	27.8
50°	3199.7	2202.6	212.5	130.5	83.3	62.5	45.8	33.3	27.8	22.2	20.8
52.5°	3727.5	2531.7	193.0	115.3	69.4	51.4	36.1	26.4	20.8	16.7	15.3
55°	4302.4	2942.8	175.0	97.2	58.3	41.7	29.2	20.8	15.3	11.1	9.7
57.5°	4751.0	3298.3	159.7	80.5	47.2	33.3	22.2	15.3	11.1	6.9	5.6
60°	5241.2	3548.3	140.3	63.9	38.9	25.0	16.7	11.1	8.3	4.2	4.2
62.5°	5746.7	3841.3	115.3	50.0	30.6	19.4	12.5	8.3	5.6	1.4	1.4
65°	6449.5	4070.5	88.9	38.9	23.6	13.9	9.7	6.9	2.8	0.0	0.0
67.5°	6648.1	3958.0	65.3	30.6	16.7	9.7	6.9	4.2	1.4	0.0	0.0
69°	6449.5	3565.0	56.9	26.4	13.9	8.3	5.6	2.8	1.4	0.0	0.0
70°	6087.0	3259.5	50.0	22.2	12.5	8.3	4.2	2.8	1.4	0.0	0.0
72.5°	5091.2	2499.8	38.9	16.7	9.7	6.9	4.2	2.8	0.0	0.0	0.0
75°	3734.4	1544.3	29.2	12.5	8.3	5.6	4.2	2.8	0.0	0.0	0.0
77.5°	2001.2	563.8	20.8	8.3	5.6	4.2	4.2	2.8	0.0	0.0	0.0
80°	548.6	166.7	15.3	5.6	4.2	2.8	2.8	1.4	0.0	0.0	0.0
82.5°	150.0	43.1	9.7	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0
85°	80.5	16.7	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	41.7	5.6	4.2	2.8	2.8	1.4	0.0	0.0	0.0	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)