

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: P484515

Luminaire Tested: **IFLD-S-SA3C-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

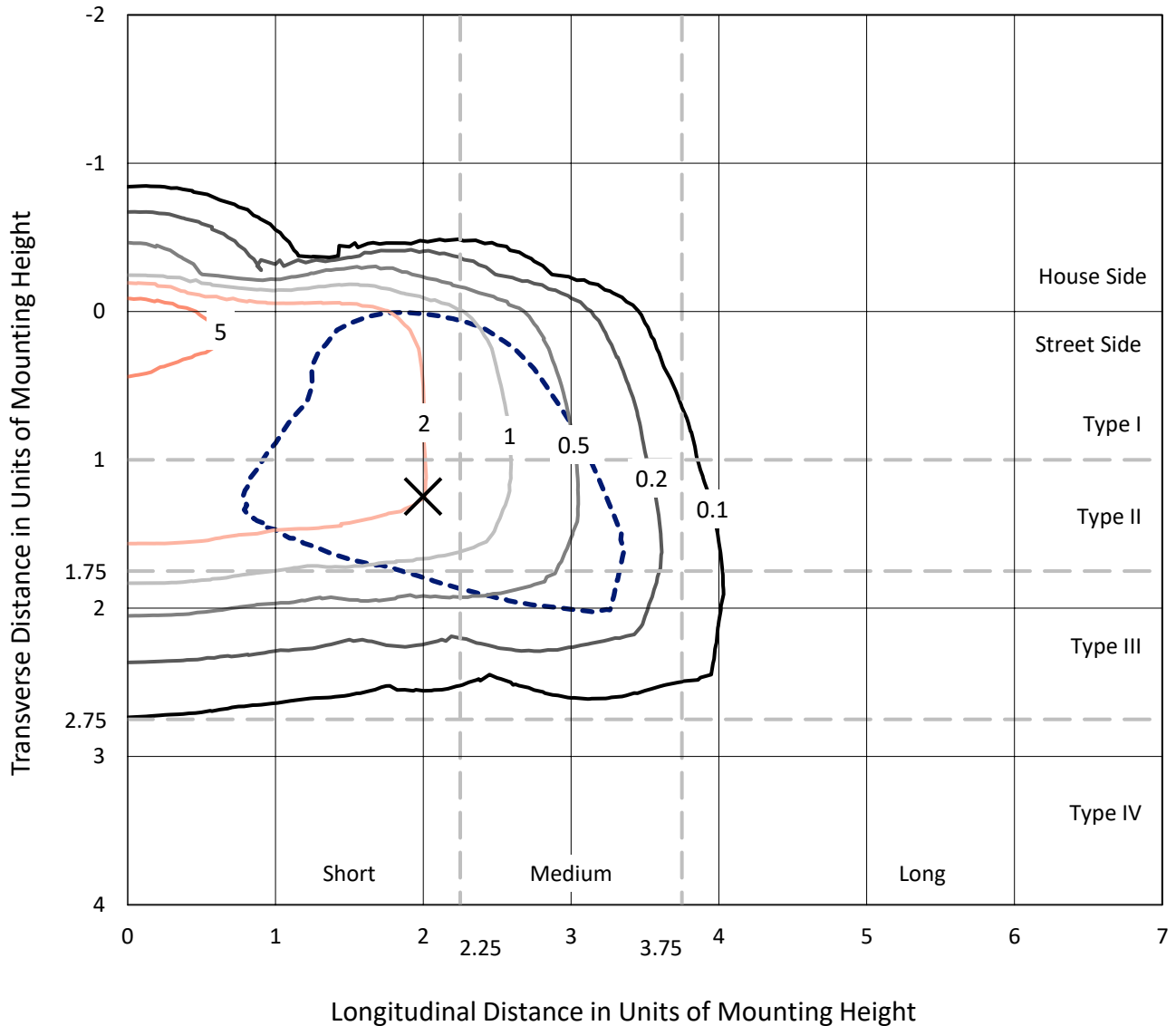
Lumens per Lamp: N/A
Luminaire Lumens: 13021.8 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

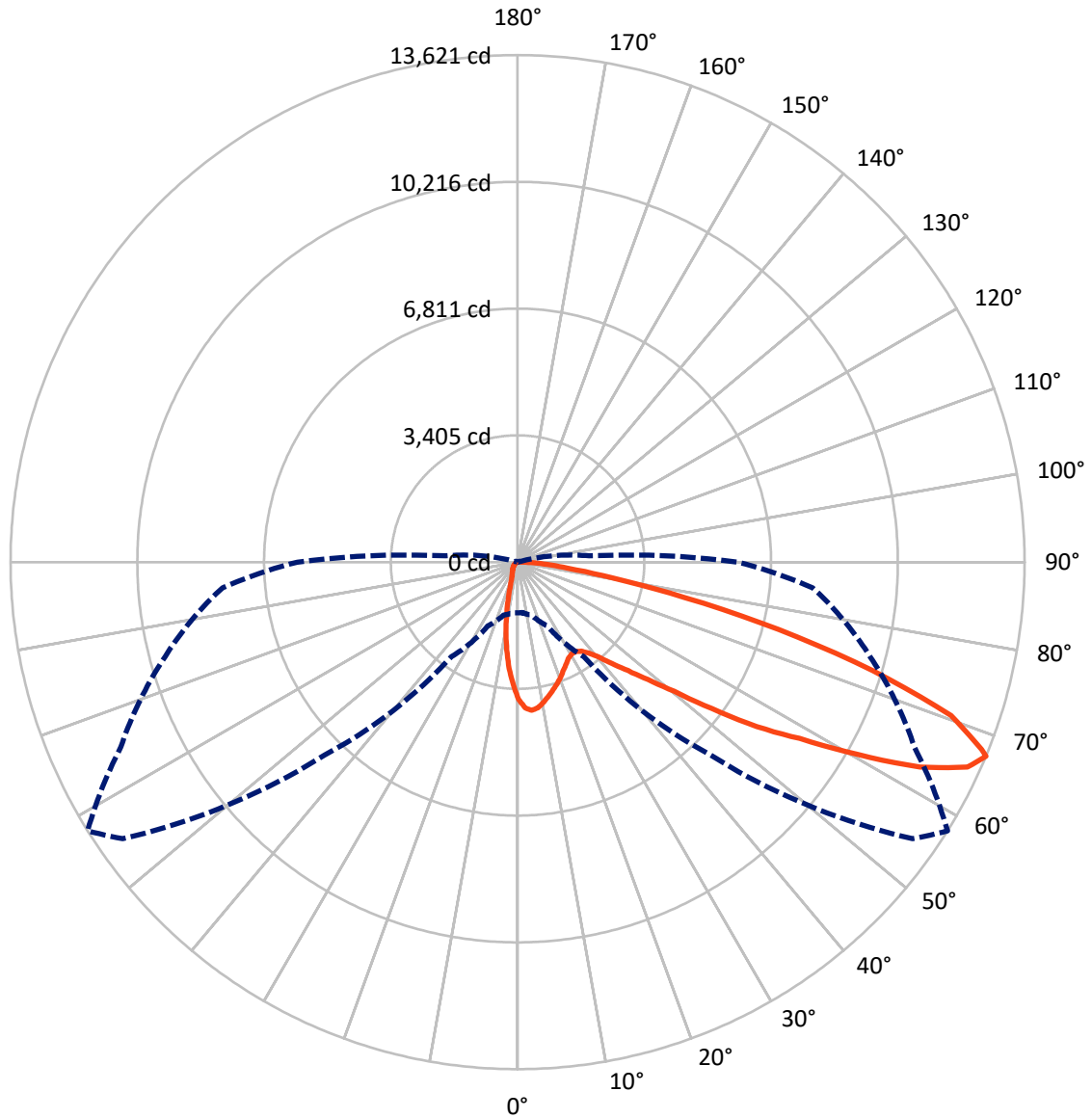
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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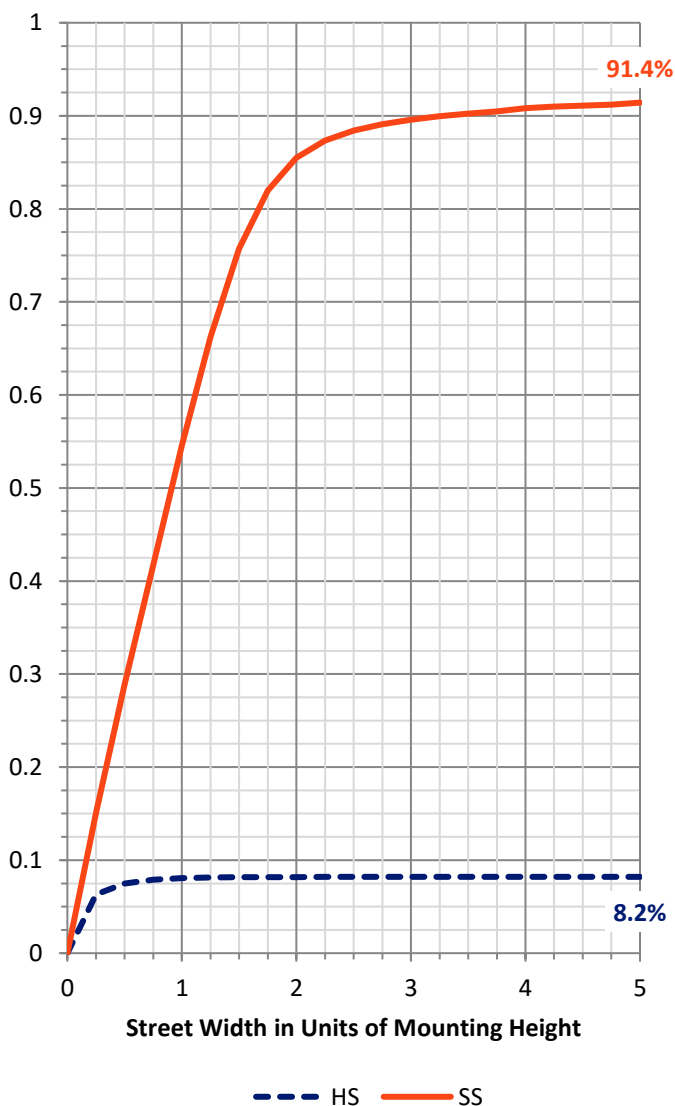
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1076.3	0.0	1076.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	11945.5	0.0	11945.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	13021.8	0.0	13021.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	2.2
10°-20°	607.2	4.7
20°-30°	805.6	6.2
30°-40°	1116.3	8.6
40°-50°	1821.4	14.0
50°-60°	3201.5	24.6
60°-70°	3545.9	27.2
70°-80°	1469.4	11.3
80°-90°	161.8	1.2
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°	13021.8	100.0
0°-180°	13021.8	100.0

Coefficient of Utilization



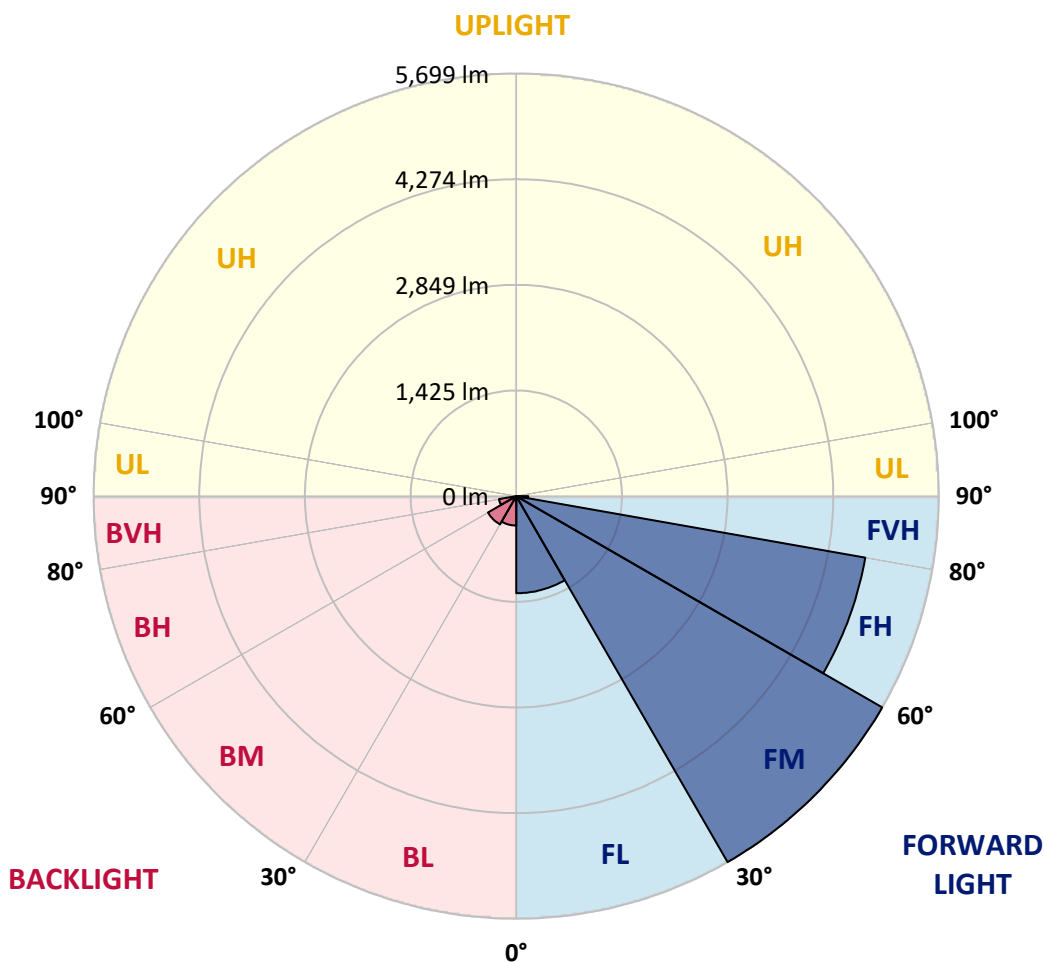
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.1	10.1			
FM (30°-60°)	5698.6	43.8			
FH (60°-80°)	4778.7	36.7			G2/5000
FVH (80°-90°)	159.1	1.2			G2/225
BL (0°-30°)	396.4	3.0	B1/500		
BM (30°-60°)	440.6	3.4	B1/1000		
BH (60°-80°)	236.6	1.8	B1/500		G1/500
BVH (80°-90°)	2.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3
2.5°	4014.3	4028.1	4040.2	4017.7	4036.8	4009.1	3938.2	3922.7	3910.6	3805.1	3744.6
5°	4012.6	3997.0	4009.1	4019.5	3993.5	4014.3	3997.0	3998.7	3952.0	3857.0	3687.5
7.5°	3744.6	3737.7	3744.6	3794.7	3851.8	3896.7	3922.7	3948.6	3917.5	3775.7	3611.5
10°	3383.3	3417.8	3436.9	3526.8	3614.9	3697.9	3779.2	3827.6	3818.9	3761.9	3528.5
12.5°	3130.9	3120.5	3189.6	3248.4	3336.6	3504.3	3646.0	3691.0	3742.9	3663.3	3419.6
15°	2897.5	2869.8	2911.3	3013.3	3163.7	3296.8	3495.6	3563.1	3628.8	3649.5	3360.8
17.5°	2674.5	2688.3	2731.5	2823.1	2964.9	3151.6	3338.3	3435.1	3592.5	3564.8	3272.6
20°	2567.3	2596.7	2612.2	2658.9	2757.4	2944.2	3222.5	3300.3	3468.0	3563.1	3186.2
22.5°	2572.5	2572.5	2536.2	2563.8	2653.7	2798.9	3065.2	3151.6	3417.8	3473.2	3108.4
25°	2627.8	2593.2	2594.9	2562.1	2600.1	2679.6	2923.4	3028.9	3315.8	3481.8	3066.9
27.5°	2669.3	2662.4	2652.0	2643.3	2594.9	2607.0	2830.1	2916.5	3276.1	3471.4	3002.9
30°	2819.7	2788.6	2778.2	2759.2	2695.2	2636.4	2755.7	2864.6	3245.0	3495.6	2966.6
32.5°	2945.9	2951.1	2959.7	2904.4	2849.1	2703.8	2776.5	2862.9	3222.5	3551.0	3002.9
35°	3104.9	3127.4	3130.9	3113.6	3054.8	2911.3	2862.9	2937.2	3260.5	3649.5	3006.4
37.5°	3347.0	3322.8	3388.5	3395.4	3353.9	3163.7	3063.4	3092.8	3372.9	3806.8	3137.8
40°	3504.3	3533.7	3656.4	3732.5	3661.6	3488.7	3353.9	3348.7	3535.4	4054.0	3300.3
42.5°	3678.9	3744.6	3879.4	4043.7	4035.0	3874.2	3737.7	3715.2	3824.1	4411.9	3557.9
45°	3917.5	3976.2	4164.7	4411.9	4546.8	4410.2	4204.5	4159.5	4175.1	4899.4	3997.0
47.5°	4313.4	4297.8	4569.2	4813.0	5034.3	4928.8	4840.6	4709.3	4697.2	5473.4	4603.8
50°	4761.1	4757.7	4999.7	5276.3	5532.2	5737.9	5591.0	5447.5	5450.9	6253.1	5317.8
52.5°	5186.4	5253.8	5514.9	5789.8	6228.9	6450.2	6591.9	6534.9	6260.0	6949.8	6081.9
55°	5411.2	5469.9	5729.3	6202.9	6896.2	7465.0	7848.8	7800.4	7269.6	7734.7	6835.7
57.5°	5198.5	5238.3	5589.2	6209.9	7363.0	8631.9	9000.2	8939.6	8313.8	8334.6	7746.8
60°	4308.2	4370.4	4892.5	5620.3	7181.4	9530.9	10585.5	10493.8	9264.7	9093.5	8332.8
62.5°	2983.9	3025.4	3454.1	4360.0	6320.5	9843.8	12082.6	12132.7	10267.4	9684.8	8507.4
65°	1932.8	1929.3	2174.8	2788.6	4479.3	8896.4	12967.8	13278.9	11235.5	9774.7	8453.8
67°	1365.8	1360.6	1476.4	1891.3	3101.5	7330.1	12952.2	13621.2	11761.1	9800.6	7957.7
67.5°	1260.3	1255.1	1365.8	1739.2	2798.9	6816.7	12758.6	13444.9	11946.0	9764.3	7739.9
70°	978.5	964.7	1006.2	1198.1	1630.3	4408.4	10919.1	12350.6	11562.2	8858.4	6180.5
72.5°	707.1	722.6	788.3	983.7	1279.3	2371.9	8322.5	9987.3	9657.1	6676.6	3927.8
75°	492.7	506.5	612.0	802.2	1173.9	1438.4	5627.3	7243.7	6726.8	3685.8	1673.5
77.5°	257.6	274.9	390.7	641.4	1066.7	1113.3	3362.5	4593.4	3564.8	1312.2	461.6
80°	119.3	127.9	195.4	454.7	892.1	978.5	1960.5	2555.2	1426.3	293.9	159.0
82.5°	51.9	57.1	89.9	261.0	632.7	855.8	1213.6	1339.8	516.9	95.1	98.5
85°	10.4	12.1	34.6	138.3	306.0	518.6	852.3	795.2	259.3	46.7	77.8
87.5°	0.0	0.0	8.6	39.8	83.0	153.9	361.3	361.3	79.5	24.2	29.4
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°	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3	3689.3
2.5°	3691.0	3628.8	3492.2	3366.0	3276.1	3174.1	3039.2	2978.7	2956.3	2925.1	2878.5
5°	3594.2	3518.1	3284.7	3049.6	2792.0	2596.7	2389.2	2268.2	2176.6	2119.5	2100.5
7.5°	3457.6	3302.0	2987.4	2610.5	2276.8	1986.4	1671.8	1459.1	1322.5	1267.2	1215.3
10°	3348.7	3146.4	2667.5	2199.0	1754.7	1329.4	975.0	788.3	646.6	593.0	586.1
12.5°	3206.9	2964.9	2368.5	1778.9	1220.5	791.8	539.4	468.5	428.7	421.8	416.6
15°	3089.4	2800.7	2084.9	1377.9	790.1	494.4	420.1	402.8	392.4	389.0	390.7
17.5°	3009.8	2624.3	1794.5	1002.7	520.4	404.5	387.3	376.9	371.7	370.0	364.8
20°	2852.5	2475.6	1507.5	701.9	406.3	373.4	359.6	350.9	345.8	344.0	342.3
22.5°	2762.6	2287.2	1220.5	489.3	361.3	338.8	328.5	321.6	312.9	307.7	306.0
25°	2672.7	2148.9	964.7	380.3	328.5	312.9	297.4	288.7	274.9	268.0	266.2
27.5°	2567.3	2012.3	743.4	330.2	295.6	280.1	264.5	250.7	233.4	226.5	223.0
30°	2506.8	1879.2	560.1	295.6	271.4	250.7	231.7	214.4	195.4	183.3	179.8
32.5°	2475.6	1758.2	420.1	269.7	245.5	223.0	198.8	178.1	160.8	150.4	148.7
35°	2437.6	1640.6	330.2	245.5	221.3	197.1	172.9	152.1	134.8	126.2	122.7
37.5°	2477.4	1571.5	274.9	226.5	202.3	174.6	148.7	127.9	114.1	105.5	103.7
40°	2586.3	1514.4	238.6	209.2	183.3	153.9	129.7	108.9	96.8	89.9	86.4
42.5°	2754.0	1514.4	216.1	191.9	166.0	134.8	110.6	95.1	83.0	76.1	74.3
45°	3058.3	1561.1	197.1	174.6	145.2	115.8	95.1	79.5	67.4	60.5	58.8
47.5°	3485.3	1668.3	181.5	159.0	129.7	102.0	83.0	67.4	55.3	48.4	46.7
50°	4059.2	1912.1	166.0	140.0	115.8	88.2	69.2	53.6	43.2	36.3	34.6
52.5°	4775.0	2257.8	150.4	129.7	98.5	74.3	55.3	43.2	32.8	27.7	25.9
55°	5532.2	2681.4	131.4	115.8	84.7	62.2	44.9	32.8	24.2	20.7	19.0
57.5°	6294.6	3008.1	115.8	100.3	69.2	50.1	36.3	25.9	17.3	13.8	12.1
60°	6699.1	3039.2	100.3	83.0	55.3	39.8	27.7	19.0	12.1	8.6	6.9
62.5°	6761.4	2762.6	86.4	67.4	44.9	31.1	19.0	13.8	6.9	3.5	3.5
65°	6441.5	2302.8	74.3	53.6	34.6	22.5	13.8	8.6	3.5	1.7	0.0
67°	5922.9	1929.3	64.0	44.9	27.7	17.3	10.4	5.2	1.7	0.0	0.0
67.5°	5722.3	1825.6	60.5	41.5	25.9	15.6	8.6	5.2	1.7	0.0	0.0
70°	4441.3	1303.5	44.9	29.4	19.0	12.1	6.9	3.5	0.0	0.0	0.0
72.5°	2721.1	762.4	34.6	20.7	13.8	8.6	5.2	1.7	0.0	0.0	0.0
75°	1141.0	262.8	29.4	15.6	10.4	5.2	3.5	1.7	0.0	0.0	0.0
77.5°	297.4	98.5	20.7	10.4	6.9	5.2	3.5	1.7	0.0	0.0	0.0
80°	121.0	44.9	13.8	6.9	6.9	5.2	3.5	1.7	0.0	0.0	0.0
82.5°	79.5	20.7	8.6	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0
85°	60.5	12.1	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	6.9	5.2	3.5	3.5	0.0	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)