

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: P484534

Luminaire Tested: **IFLD-M-SA4B-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484534
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

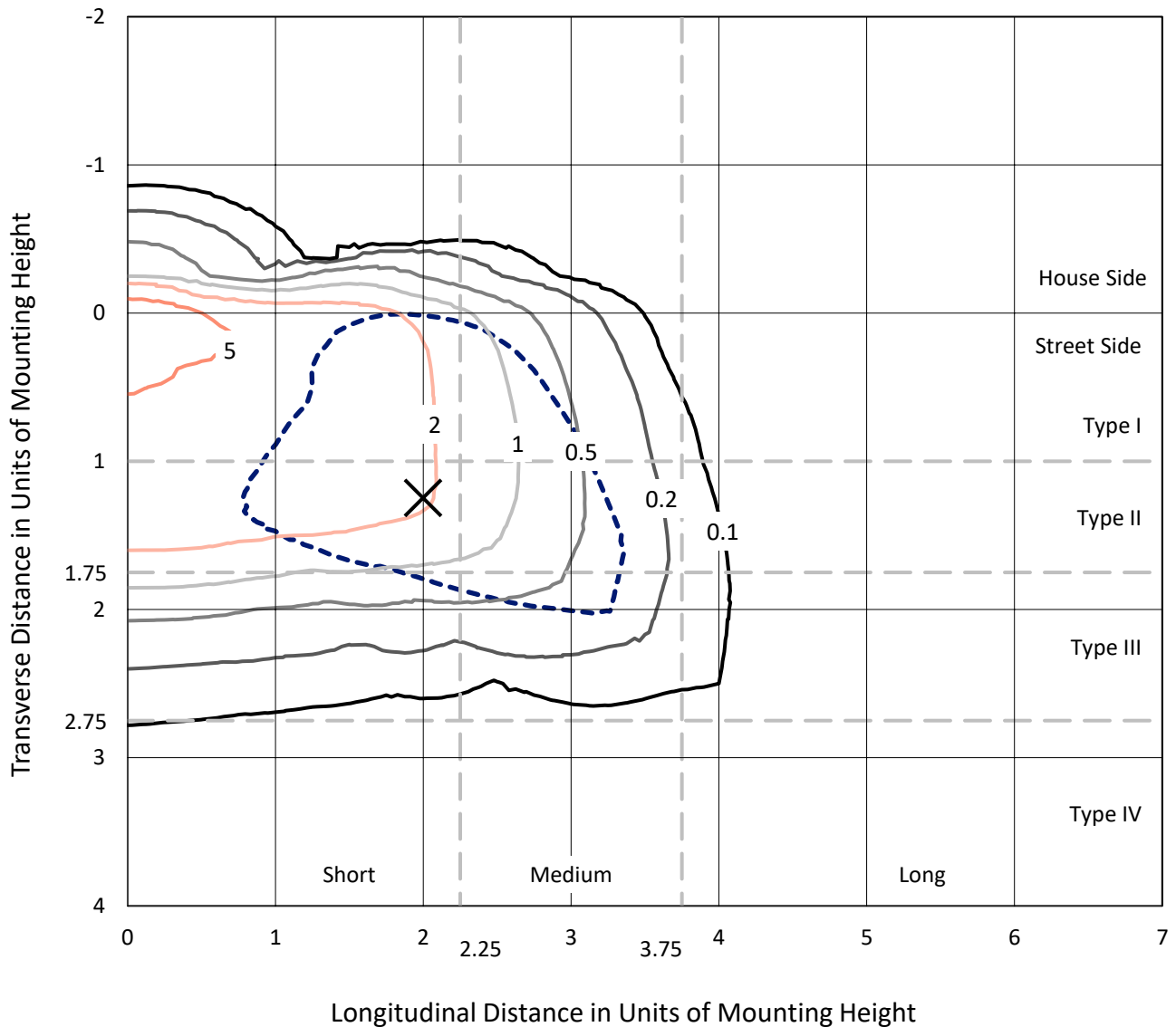
Lumens per Lamp: N/A
Luminaire Lumens: 14040.8 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1
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

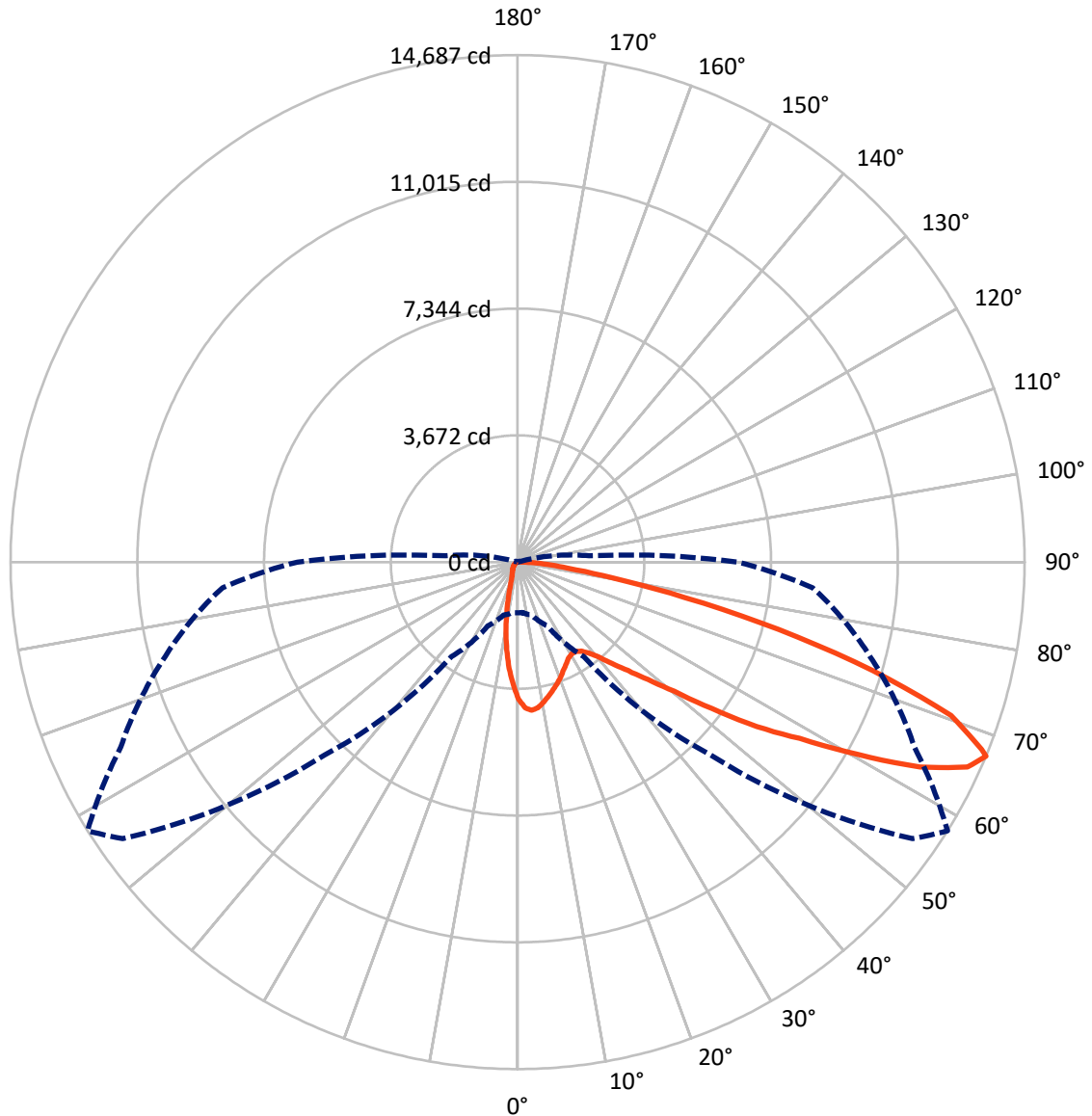
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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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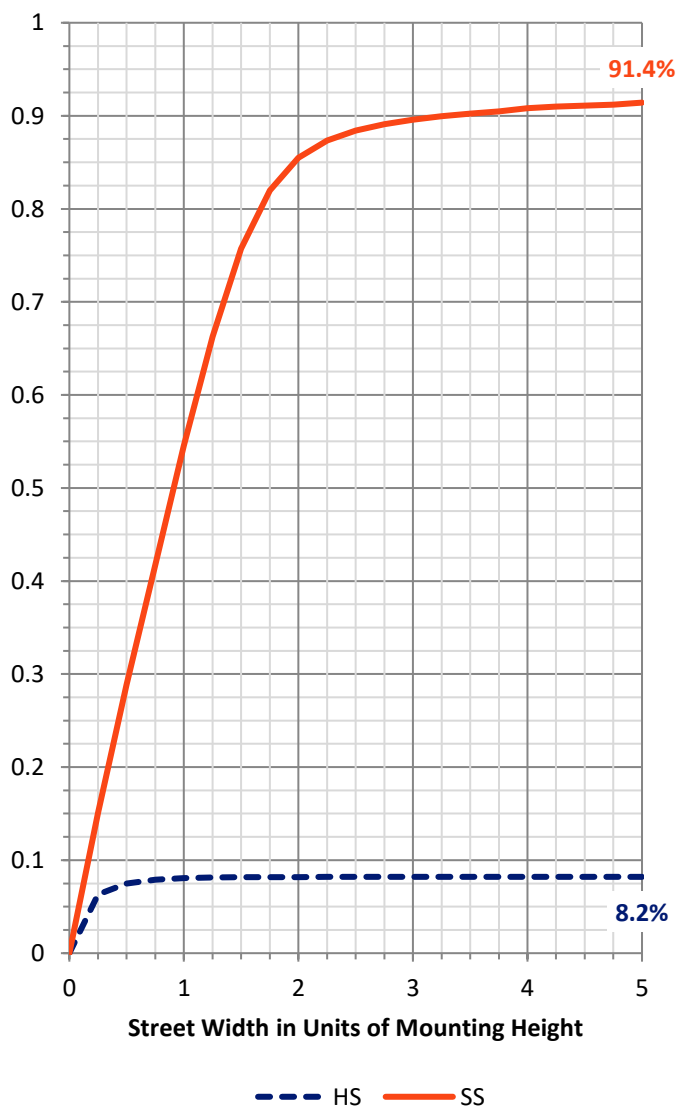
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.6	0.0	1160.6
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	12880.2	0.0	12880.2
	% Fixture	91.7	0.0	91.7
Total	Lumens	14040.8	0.0	14040.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	2.2
10°-20°	654.7	4.7
20°-30°	868.6	6.2
30°-40°	1203.6	8.6
40°-50°	1964.0	14.0
50°-60°	3452.0	24.6
60°-70°	3823.4	27.2
70°-80°	1584.4	11.3
80°-90°	174.4	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°	14040.8	100.0
0°-180°	14040.8	100.0

Coefficient of Utilization



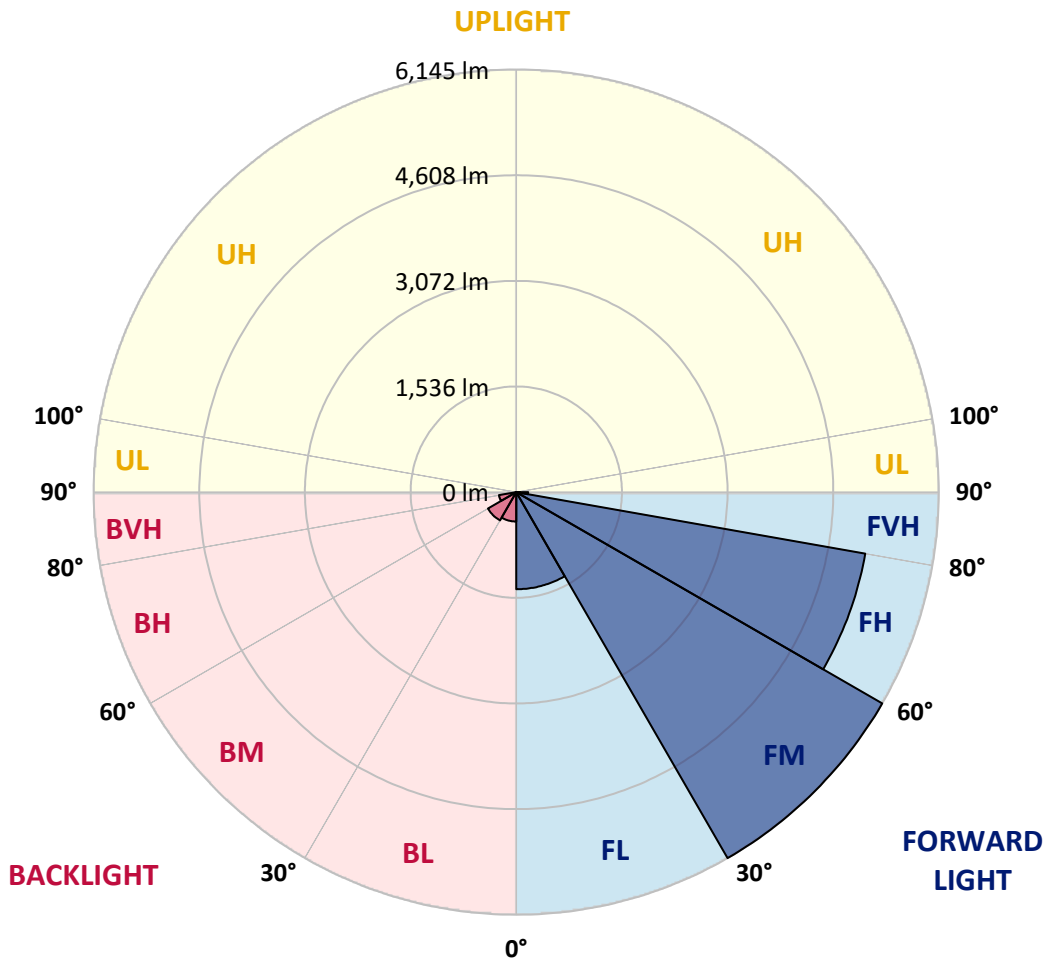
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.5	10.1			
FM (30°-60°)	6144.5	43.8			
FH (60°-80°)	5152.7	36.7			G3/7500
FVH (80°-90°)	171.5	1.2			G2/225
BL (0°-30°)	427.4	3.0	B1/500		
BM (30°-60°)	475.1	3.4	B1/1000		
BH (60°-80°)	255.2	1.8	B1/500		G1/500
BVH (80°-90°)	2.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	4328.4	4343.3	4356.4	4332.1	4352.6	4322.8	4246.4	4229.6	4216.5	4102.8	4037.6
5°	4326.5	4309.8	4322.8	4334.0	4306.0	4328.4	4309.8	4311.6	4261.3	4158.8	3976.1
7.5°	4037.6	4030.1	4037.6	4091.7	4153.2	4201.6	4229.6	4257.6	4224.0	4071.2	3894.1
10°	3648.0	3685.3	3705.8	3802.7	3897.8	3987.3	4074.9	4127.1	4117.8	4056.2	3804.6
12.5°	3375.8	3364.7	3439.2	3502.6	3597.7	3778.5	3931.3	3979.8	4035.7	3950.0	3687.2
15°	3124.2	3094.4	3139.1	3249.1	3411.3	3554.8	3769.2	3841.9	3912.7	3935.1	3623.8
17.5°	2883.7	2898.6	2945.2	3044.0	3196.9	3398.2	3599.5	3703.9	3873.6	3843.7	3528.7
20°	2768.2	2799.8	2816.6	2867.0	2973.2	3174.5	3474.6	3558.5	3739.3	3841.9	3435.5
22.5°	2773.8	2773.8	2734.6	2764.4	2861.4	3017.9	3305.0	3398.2	3685.3	3744.9	3351.6
25°	2833.4	2796.1	2798.0	2762.6	2803.6	2889.3	3152.2	3265.9	3575.3	3754.3	3306.9
27.5°	2878.1	2870.7	2859.5	2850.2	2798.0	2811.0	3051.5	3144.7	3532.4	3743.1	3237.9
30°	3040.3	3006.8	2995.6	2975.1	2906.1	2842.7	2971.3	3088.8	3498.9	3769.2	3198.8
32.5°	3176.4	3182.0	3191.3	3131.7	3072.0	2915.4	2993.7	3086.9	3474.6	3828.8	3237.9
35°	3347.9	3372.1	3375.8	3357.2	3293.8	3139.1	3086.9	3167.1	3515.7	3935.1	3241.6
37.5°	3608.9	3582.8	3653.6	3661.1	3616.3	3411.3	3303.2	3334.8	3636.8	4104.7	3383.3
40°	3778.5	3810.2	3942.5	4024.5	3948.1	3761.7	3616.3	3610.7	3812.0	4371.3	3558.5
42.5°	3966.8	4037.6	4183.0	4360.1	4350.8	4177.4	4030.1	4005.9	4123.3	4757.1	3836.3
45°	4224.0	4287.4	4490.6	4757.1	4902.5	4755.3	4533.4	4485.0	4501.8	5282.8	4309.8
47.5°	4650.9	4634.1	4926.8	5189.6	5428.2	5314.5	5219.4	5077.8	5064.7	5901.7	4964.0
50°	5133.7	5129.9	5390.9	5689.2	5965.1	6186.9	6028.4	5873.7	5877.4	6742.4	5733.9
52.5°	5592.2	5664.9	5946.4	6242.8	6716.3	6954.9	7107.7	7046.2	6749.8	7493.6	6557.8
55°	5834.6	5898.0	6177.6	6688.3	7435.8	8049.1	8462.9	8410.7	7838.5	8339.9	7370.6
57.5°	5605.3	5648.2	6026.6	6695.8	7939.1	9307.4	9704.4	9639.2	8964.4	8986.7	8352.9
60°	4645.3	4712.4	5275.3	6060.1	7743.4	10276.7	11413.8	11315.0	9989.6	9805.1	8984.9
62.5°	3217.4	3262.1	3724.4	4701.2	6815.1	10614.1	13028.1	13082.1	11070.8	10442.6	9173.1
65°	2084.0	2080.3	2345.0	3006.8	4829.8	9592.6	13982.5	14318.0	12114.7	10539.5	9115.4
67°	1472.6	1467.0	1591.9	2039.3	3344.2	7903.7	13965.7	14687.1	12681.3	10567.5	8580.4
67.5°	1358.9	1353.3	1472.6	1875.3	3017.9	7350.1	13756.9	14497.0	12880.8	10528.3	8345.5
70°	1055.1	1040.2	1084.9	1291.8	1757.8	4753.4	11773.5	13317.0	12467.0	9551.5	6664.1
72.5°	762.4	779.2	850.0	1060.7	1379.4	2557.5	8973.7	10768.8	10412.8	7199.1	4235.2
75°	531.3	546.2	659.9	864.9	1265.7	1550.9	6067.6	7810.5	7253.1	3974.2	1804.4
77.5°	277.7	296.4	421.3	691.6	1150.1	1200.5	3625.6	4952.9	3843.7	1414.8	497.7
80°	128.6	137.9	210.6	490.3	961.9	1055.1	2113.9	2755.1	1537.9	316.9	171.5
82.5°	55.9	61.5	96.9	281.5	682.3	922.7	1308.6	1444.7	557.4	102.5	106.3
85°	11.2	13.0	37.3	149.1	329.9	559.2	919.0	857.5	279.6	50.3	83.9
87.5°	0.0	0.0	9.3	42.9	89.5	165.9	389.6	389.6	85.7	26.1	31.7
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°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	3979.8	3912.7	3765.4	3629.4	3532.4	3422.5	3277.1	3211.8	3187.6	3154.0	3103.7
5°	3875.4	3793.4	3541.8	3288.2	3010.5	2799.8	2576.2	2445.7	2346.9	2285.4	2264.9
7.5°	3728.2	3560.4	3221.1	2814.8	2455.0	2141.8	1802.6	1573.3	1426.0	1366.4	1310.4
10°	3610.7	3392.6	2876.3	2371.1	1892.0	1433.5	1051.3	850.0	697.2	639.4	631.9
12.5°	3457.9	3196.9	2553.8	1918.1	1316.0	853.7	581.6	505.2	462.3	454.8	449.2
15°	3331.1	3019.8	2248.1	1485.7	851.9	533.1	453.0	434.3	423.1	419.4	421.3
17.5°	3245.4	2829.7	1934.9	1081.2	561.1	436.2	417.6	406.4	400.8	398.9	393.3
20°	3075.7	2669.4	1625.5	756.8	438.1	402.6	387.7	378.4	372.8	371.0	369.1
22.5°	2978.8	2466.2	1316.0	527.5	389.6	365.4	354.2	346.7	337.4	331.8	329.9
25°	2881.9	2317.1	1040.2	410.1	354.2	337.4	320.6	311.3	296.4	288.9	287.1
27.5°	2768.2	2169.8	801.6	356.0	318.8	302.0	285.2	270.3	251.7	244.2	240.5
30°	2702.9	2026.3	604.0	318.8	292.7	270.3	249.8	231.1	210.6	197.6	193.9
32.5°	2669.4	1895.8	453.0	290.8	264.7	240.5	214.4	192.0	173.4	162.2	160.3
35°	2628.4	1769.0	356.0	264.7	238.6	212.5	186.4	164.0	145.4	136.1	132.3
37.5°	2671.2	1694.4	296.4	244.2	218.1	188.3	160.3	137.9	123.0	113.7	111.8
40°	2788.7	1632.9	257.2	225.6	197.6	165.9	139.8	117.4	104.4	96.9	93.2
42.5°	2969.5	1632.9	233.0	206.9	179.0	145.4	119.3	102.5	89.5	82.0	80.2
45°	3297.6	1683.3	212.5	188.3	156.6	124.9	102.5	85.7	72.7	65.2	63.4
47.5°	3758.0	1798.8	195.7	171.5	139.8	110.0	89.5	72.7	59.7	52.2	50.3
50°	4376.9	2061.7	179.0	151.0	124.9	95.1	74.6	57.8	46.6	39.1	37.3
52.5°	5148.6	2434.5	162.2	139.8	106.3	80.2	59.7	46.6	35.4	29.8	28.0
55°	5965.1	2891.2	141.7	124.9	91.3	67.1	48.5	35.4	26.1	22.4	20.5
57.5°	6787.1	3243.5	124.9	108.1	74.6	54.1	39.1	28.0	18.6	14.9	13.0
60°	7223.3	3277.1	108.1	89.5	59.7	42.9	29.8	20.5	13.0	9.3	7.5
62.5°	7290.4	2978.8	93.2	72.7	48.5	33.6	20.5	14.9	7.5	3.7	3.7
65°	6945.6	2483.0	80.2	57.8	37.3	24.2	14.9	9.3	3.7	1.9	0.0
67°	6386.3	2080.3	69.0	48.5	29.8	18.6	11.2	5.6	1.9	0.0	0.0
67.5°	6170.1	1968.5	65.2	44.7	28.0	16.8	9.3	5.6	1.9	0.0	0.0
70°	4788.8	1405.5	48.5	31.7	20.5	13.0	7.5	3.7	0.0	0.0	0.0
72.5°	2934.1	822.1	37.3	22.4	14.9	9.3	5.6	1.9	0.0	0.0	0.0
75°	1230.3	283.3	31.7	16.8	11.2	5.6	3.7	1.9	0.0	0.0	0.0
77.5°	320.6	106.3	22.4	11.2	7.5	5.6	3.7	1.9	0.0	0.0	0.0
80°	130.5	48.5	14.9	7.5	7.5	5.6	3.7	1.9	0.0	0.0	0.0
82.5°	85.7	22.4	9.3	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	65.2	13.0	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	7.5	5.6	3.7	3.7	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)