

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: P483766

Luminaire Tested: **IFLD-L-SA8D-827-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483766
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

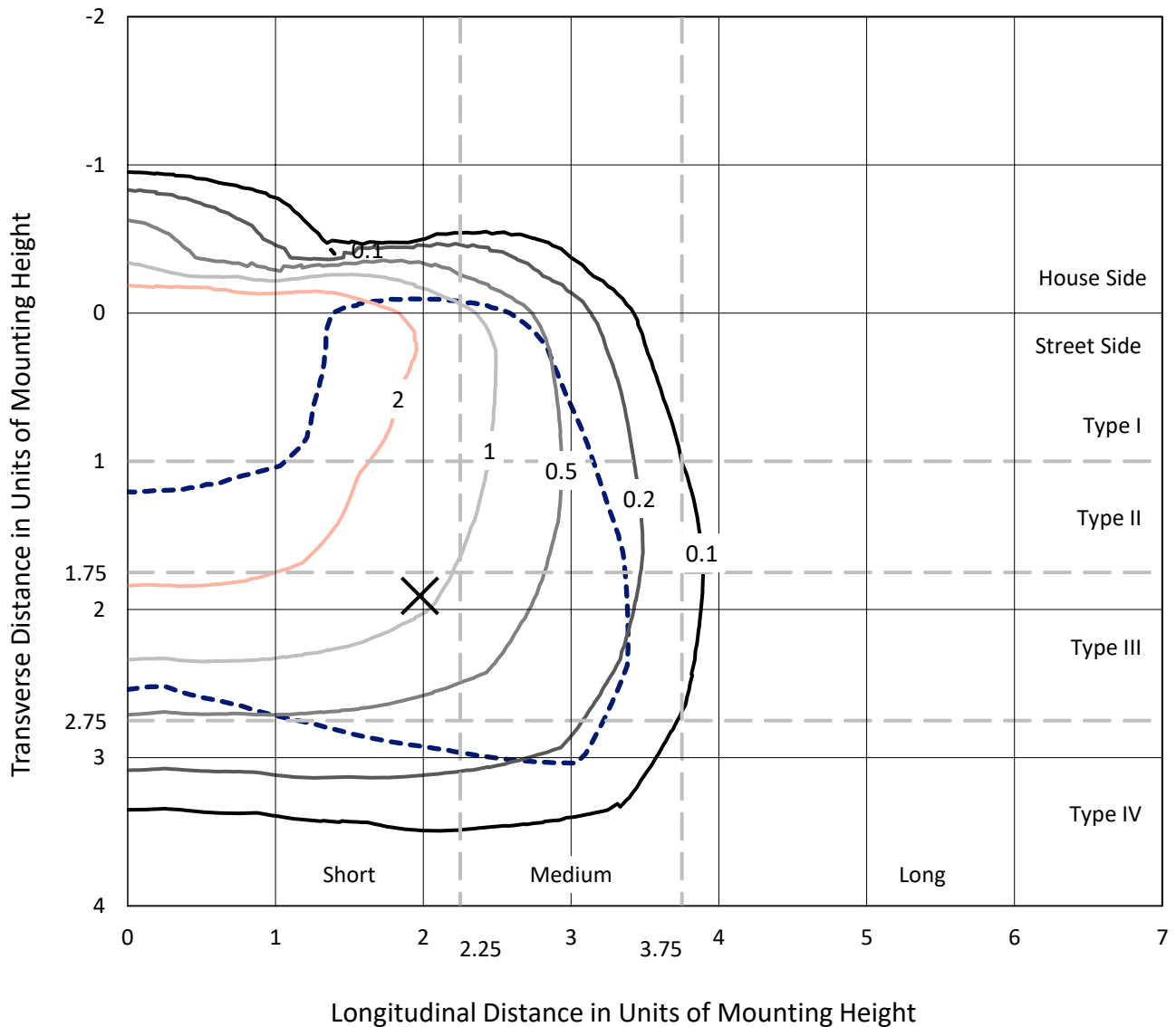
Lumens per Lamp: N/A
Luminaire Lumens: 30236.6 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 488.3
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

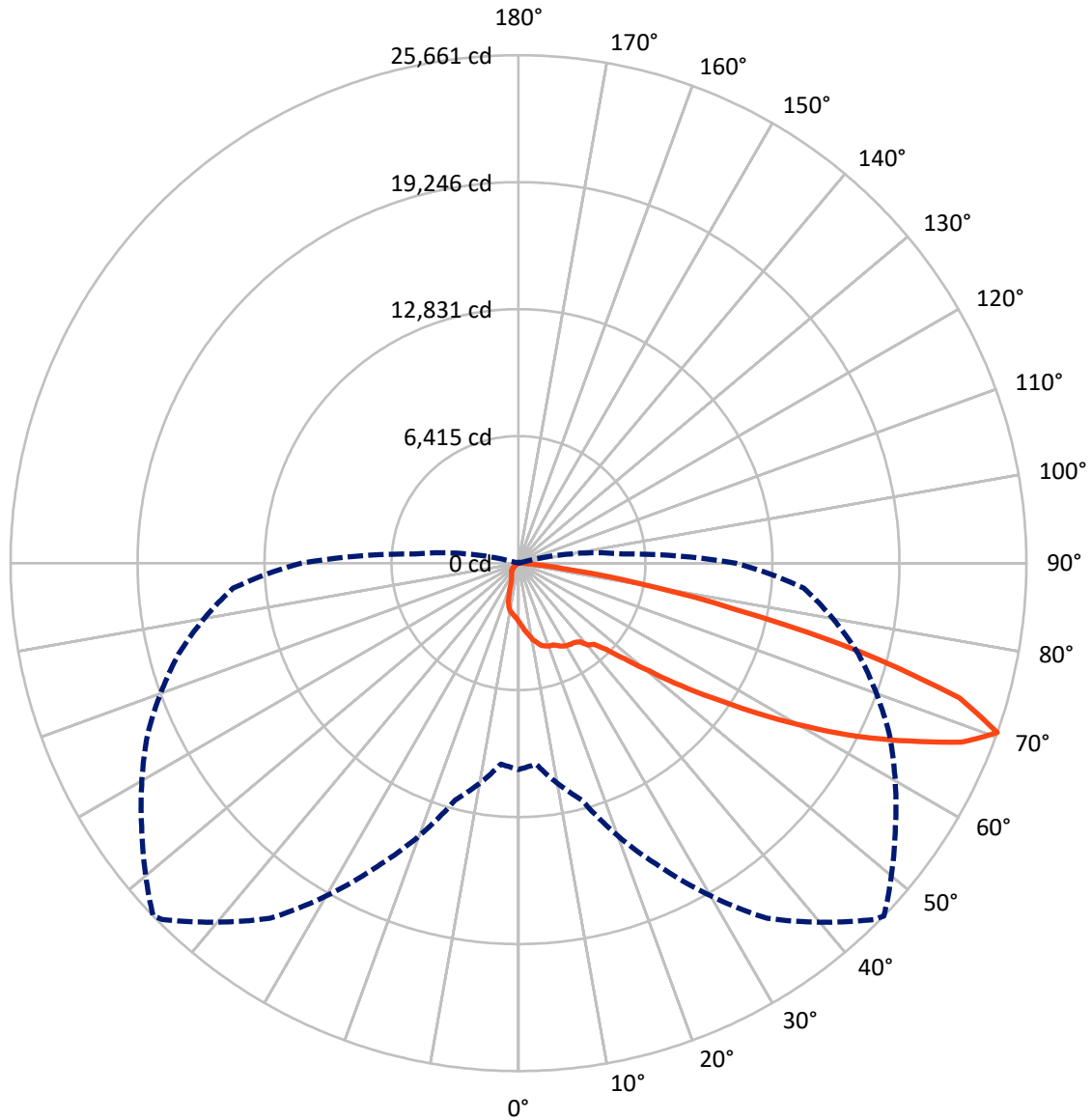
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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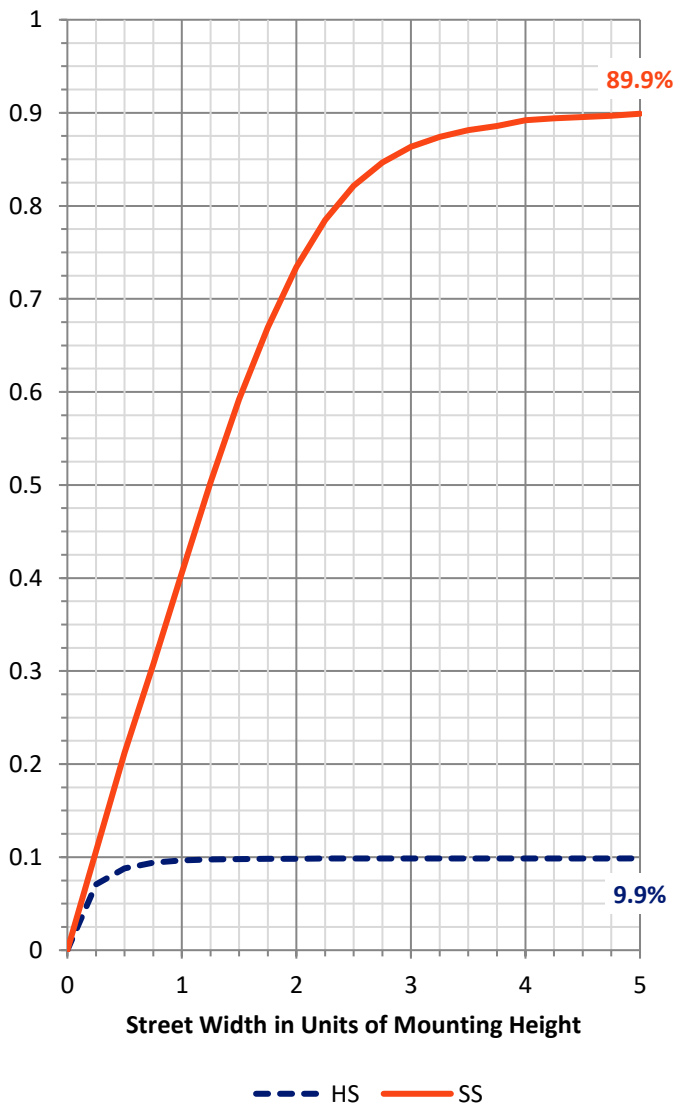
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.6	0.0	3008.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	27228.0	0.0	27228.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	30236.6	0.0	30236.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	1.0
10°-20°	893.8	3.0
20°-30°	1431.7	4.7
30°-40°	2043.5	6.8
40°-50°	3528.7	11.7
50°-60°	6755.9	22.3
60°-70°	10004.5	33.1
70°-80°	4955.1	16.4
80°-90°	327.4	1.1
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°	30236.6	100.0
0°-180°	30236.6	100.0

Coefficient of Utilization



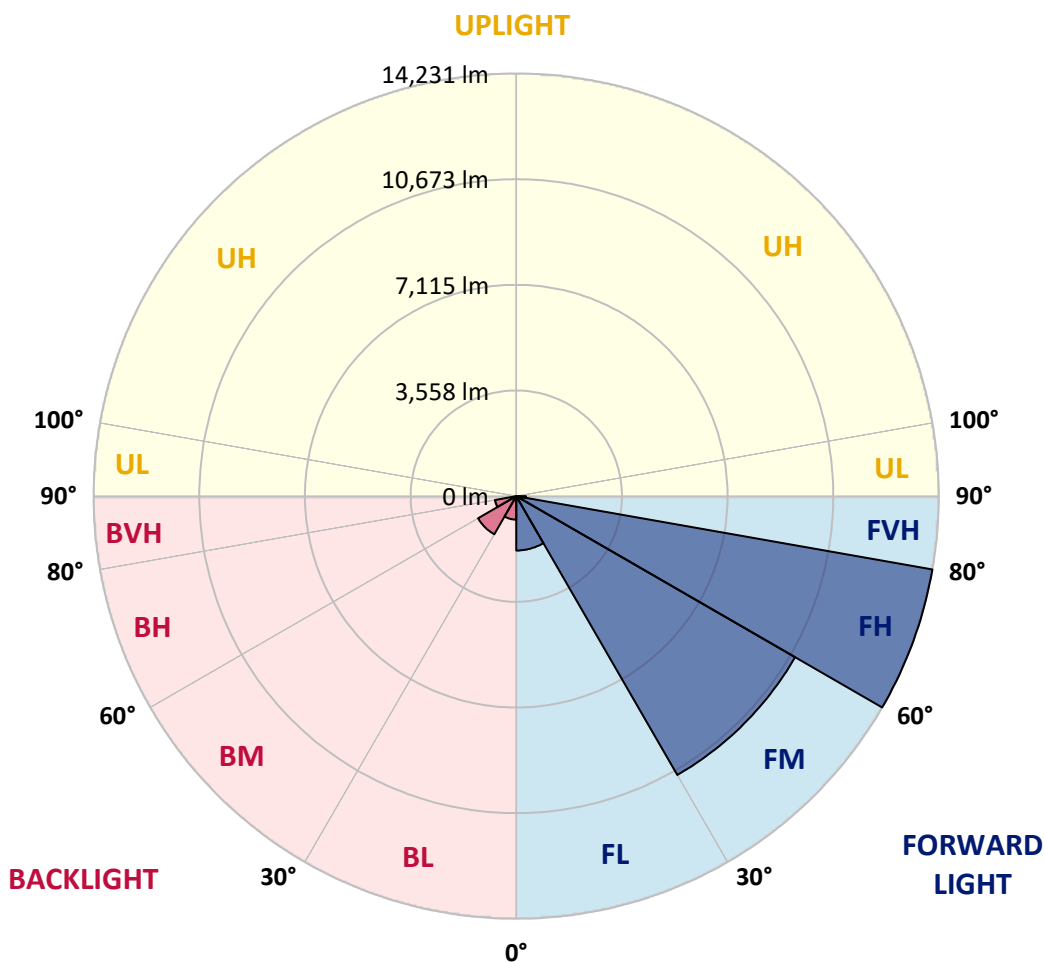
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.0	6.1			
FM (30°-60°)	10842.8	35.9			
FH (60°-80°)	14230.9	47.1			G5
FVH (80°-90°)	323.3	1.1			G3/500
BL (0°-30°)	790.4	2.6	B2/1000		
BM (30°-60°)	1485.4	4.9	B2/2500		
BH (60°-80°)	728.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3
2.5°	3312.1	3290.4	3255.5	3242.5	3207.7	3190.3	3164.1	3151.1	3103.2	3055.3	3024.9
5°	3716.9	3664.7	3682.1	3629.8	3516.7	3425.3	3420.9	3320.8	3212.0	3125.0	3007.5
7.5°	4126.0	4082.5	4017.2	3943.2	3817.0	3682.1	3642.9	3547.2	3394.8	3242.5	3085.8
10°	4435.0	4404.6	4348.0	4243.5	4069.4	3917.1	3921.5	3760.4	3599.4	3425.3	3212.0
12.5°	4626.5	4639.6	4556.9	4452.4	4300.1	4108.6	4104.2	3995.4	3812.6	3629.8	3377.4
15°	4818.0	4865.9	4739.7	4617.8	4422.0	4282.7	4308.8	4178.2	3999.8	3790.9	3512.3
17.5°	4848.5	4861.6	4835.4	4657.0	4513.4	4395.9	4400.2	4313.2	4178.2	3951.9	3712.5
20°	4796.3	4787.6	4757.1	4626.5	4530.8	4461.1	4465.5	4443.7	4369.7	4186.9	3860.5
22.5°	4643.9	4643.9	4604.8	4517.7	4474.2	4539.5	4487.3	4569.9	4491.6	4382.8	4113.0
25°	4522.1	4569.9	4548.2	4491.6	4509.0	4596.1	4622.2	4700.5	4687.5	4552.5	4287.0
27.5°	4652.6	4596.1	4609.1	4543.8	4609.1	4739.7	4752.7	4809.3	4805.0	4696.2	4443.7
30°	4739.7	4791.9	4691.8	4548.2	4617.8	4839.8	4831.1	4905.1	4939.9	4809.3	4591.7
32.5°	5018.2	4974.7	4892.0	4700.5	4709.2	4835.4	4874.6	4970.4	4992.1	4913.8	4735.3
35°	5588.4	5523.1	5161.9	4874.6	4831.1	4892.0	4918.1	5105.3	5144.5	5057.4	4887.7
37.5°	6467.6	6319.6	5884.4	5248.9	5053.1	5040.0	5040.0	5288.1	5436.1	5235.9	5114.0
40°	7725.4	7516.5	7046.4	5940.9	5344.7	5396.9	5449.1	5584.0	5566.6	5436.1	5409.9
42.5°	9327.0	9166.0	8656.8	7103.0	5901.8	5640.6	5597.1	5779.9	6054.1	6001.9	5984.5
45°	10663.2	10671.9	10345.5	8696.0	6863.6	6202.1	6232.5	6371.8	6833.2	6794.0	6789.6
47.5°	11638.1	11516.3	11468.4	10232.3	8265.1	7268.4	7224.9	7320.6	7921.2	8169.3	8282.5
50°	12526.0	12443.3	12330.2	11725.2	9949.4	8604.6	8561.0	8569.7	9488.1	9836.3	10114.8
52.5°	13627.2	13731.6	13357.3	12987.4	12129.9	10341.1	10293.3	10123.5	11263.8	11742.6	12073.4
55°	14985.1	14789.2	14367.0	14558.6	14214.7	12217.0	12129.9	11929.7	13287.7	13487.9	13836.1
57.5°	15285.4	15137.4	15572.6	16251.6	16582.4	14419.3	14384.5	14023.2	14989.4	14806.6	15790.3
60°	16034.0	16073.2	16678.1	18027.4	18601.9	16961.0	16791.3	16155.9	16639.0	16673.8	17722.7
62.5°	16804.4	16713.0	18066.5	19363.5	20247.0	19367.9	19311.3	18049.1	18597.5	18153.6	19542.0
65°	16238.6	16377.8	18314.6	20486.4	22379.7	21722.5	21674.6	19872.7	20173.1	19620.3	20281.9
67.5°	14227.8	13944.9	16656.4	19972.9	23476.5	24190.3	24138.0	21861.8	21060.9	19611.6	18745.5
70°	10428.2	10184.5	12395.4	16913.2	21905.3	25452.4	25661.3	23245.8	20699.7	17783.6	14462.8
72.5°	5109.6	5114.0	6946.3	11468.4	17331.0	23197.9	23302.4	21313.4	17783.6	13109.2	8191.1
75°	1510.3	1527.7	2572.2	5623.2	11202.9	17618.2	17735.8	16177.6	12325.8	6772.2	2794.2
77.5°	552.7	552.7	853.1	2110.9	5588.4	11120.2	11111.5	9932.0	6241.2	2293.7	652.8
80°	287.3	300.3	443.9	861.8	2419.9	5793.0	6010.6	4861.6	2372.0	966.2	191.5
82.5°	117.5	130.6	243.7	443.9	1162.1	2032.5	2224.0	1906.3	1031.5	674.6	87.0
85°	34.8	39.2	117.5	248.1	457.0	509.2	565.8	639.8	648.5	522.3	39.2
87.5°	4.4	4.4	47.9	82.7	100.1	108.8	126.2	126.2	330.8	365.6	21.8
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°	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3
2.5°	2990.1	2968.3	2933.5	2855.1	2837.7	2781.1	2776.8	2724.6	2742.0	2707.2	2694.1
5°	2968.3	2920.4	2824.7	2763.7	2702.8	2663.6	2637.5	2615.8	2611.4	2594.0	2585.3
7.5°	3007.5	2942.2	2794.2	2698.4	2594.0	2559.2	2502.6	2498.2	2467.8	2437.3	2437.3
10°	3138.0	3020.5	2859.5	2698.4	2563.5	2450.4	2319.8	2224.0	2189.2	2110.9	2119.6
12.5°	3242.5	3138.0	2903.0	2737.6	2533.1	2276.3	1989.0	1767.0	1662.6	1562.5	1601.7
15°	3390.5	3238.1	2985.7	2746.3	2415.5	1971.6	1501.6	1253.5	1157.7	1136.0	1131.6
17.5°	3551.5	3390.5	3090.2	2724.6	2176.2	1523.3	1105.5	961.9	979.3	1005.4	1001.0
20°	3729.9	3534.1	3168.5	2650.6	1797.5	1105.5	905.3	900.9	927.0	966.2	974.9
22.5°	3917.1	3747.4	3264.2	2428.6	1340.5	887.9	870.5	870.5	887.9	935.8	927.0
25°	4126.0	3899.7	3312.1	2084.8	961.9	818.2	826.9	844.4	853.1	892.2	896.6
27.5°	4287.0	4069.4	3325.2	1671.3	783.4	757.3	779.1	800.8	813.9	844.4	857.4
30°	4435.0	4282.7	3255.5	1244.8	718.1	705.1	713.8	744.2	770.4	796.5	796.5
32.5°	4622.2	4404.6	3094.5	883.5	679.0	657.2	652.8	665.9	696.4	726.8	726.8
35°	4813.7	4609.1	2837.7	709.4	644.1	613.7	596.3	583.2	596.3	618.0	635.4
37.5°	5092.2	4918.1	2515.6	652.8	618.0	574.5	539.7	509.2	487.5	483.1	496.2
40°	5488.3	5266.3	2102.2	613.7	587.6	535.3	483.1	430.9	383.0	352.5	356.9
42.5°	6088.9	5779.9	1653.9	591.9	565.8	491.8	417.8	343.8	282.9	252.4	252.4
45°	6946.3	6458.9	1214.3	570.2	539.7	439.6	343.8	256.8	195.9	178.4	182.8
47.5°	8239.0	7277.1	870.5	535.3	504.9	383.0	269.8	182.8	143.6	134.9	139.3
50°	9927.7	8247.7	679.0	496.2	461.3	322.1	200.2	134.9	113.2	108.8	113.2
52.5°	11699.1	9226.9	596.3	461.3	396.1	256.8	148.0	108.8	95.8	91.4	95.8
55°	13213.7	9858.0	517.9	409.1	317.7	191.5	117.5	95.8	82.7	69.6	69.6
57.5°	14745.7	10175.8	409.1	339.5	235.0	143.6	100.1	82.7	69.6	56.6	52.2
60°	15990.5	10402.1	291.6	252.4	165.4	113.2	87.0	74.0	56.6	43.5	39.2
62.5°	16808.7	9753.6	213.3	191.5	121.9	95.8	74.0	60.9	43.5	30.5	30.5
65°	16403.9	8857.0	165.4	134.9	91.4	74.0	60.9	43.5	30.5	17.4	13.1
67.5°	14719.6	7216.2	134.9	100.1	69.6	56.6	47.9	34.8	17.4	4.4	4.4
70°	10980.9	5288.1	108.8	74.0	56.6	43.5	34.8	21.8	8.7	4.4	0.0
72.5°	6006.2	2894.3	87.0	60.9	43.5	34.8	26.1	17.4	8.7	0.0	0.0
75°	1984.7	770.4	65.3	43.5	26.1	21.8	17.4	13.1	4.4	0.0	0.0
77.5°	478.8	200.2	52.2	39.2	21.8	13.1	8.7	4.4	4.4	0.0	0.0
80°	148.0	82.7	39.2	26.1	17.4	13.1	4.4	0.0	0.0	0.0	0.0
82.5°	60.9	39.2	17.4	17.4	13.1	4.4	0.0	0.0	0.0	0.0	0.0
85°	30.5	21.8	13.1	8.7	8.7	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	21.8	8.7	4.4	4.4	0.0	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)