

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: P483800

Luminaire Tested: **IFLD-L-SA7D-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483800
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

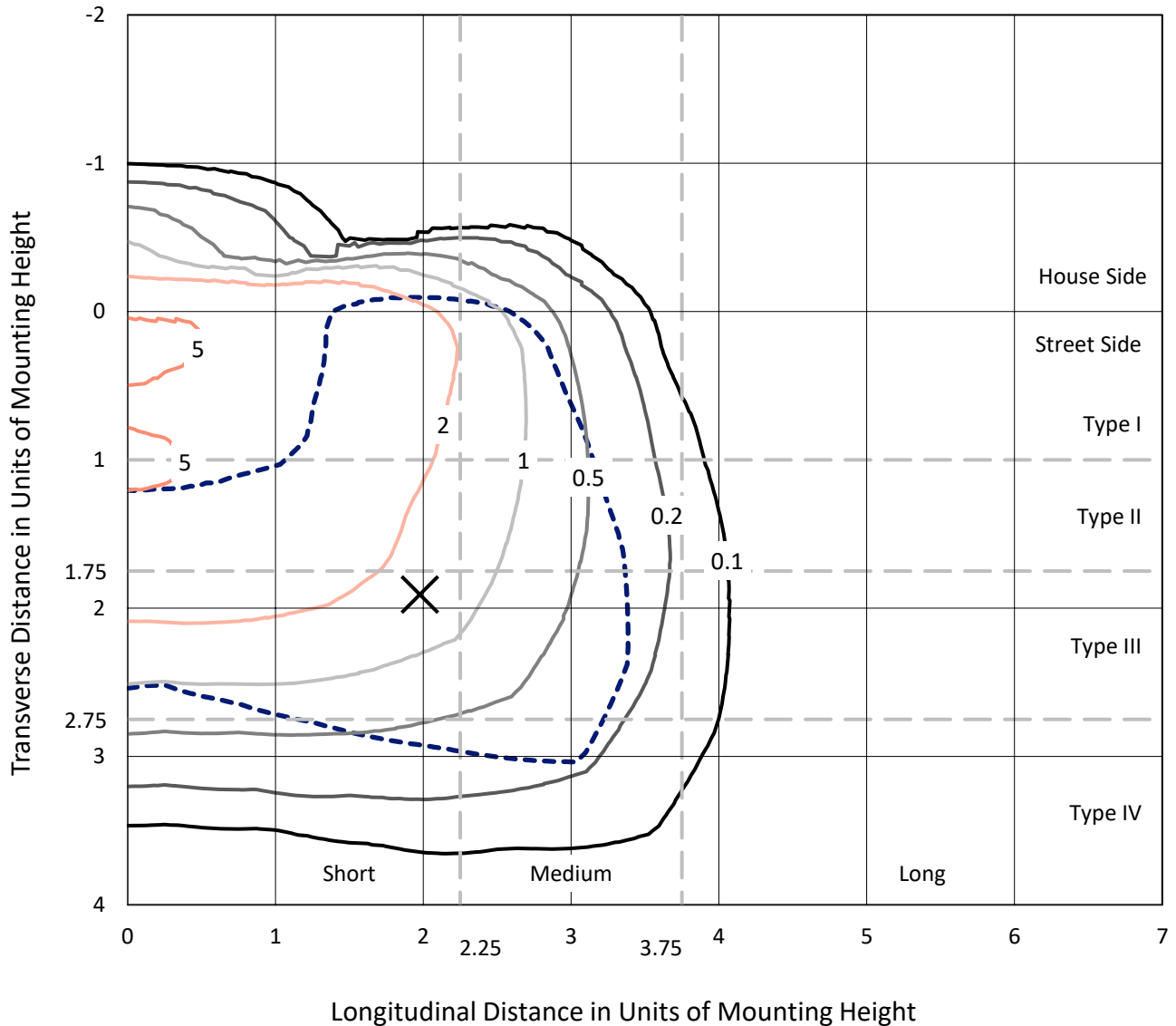
Lumens per Lamp: N/A
Luminaire Lumens: 28598.4 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

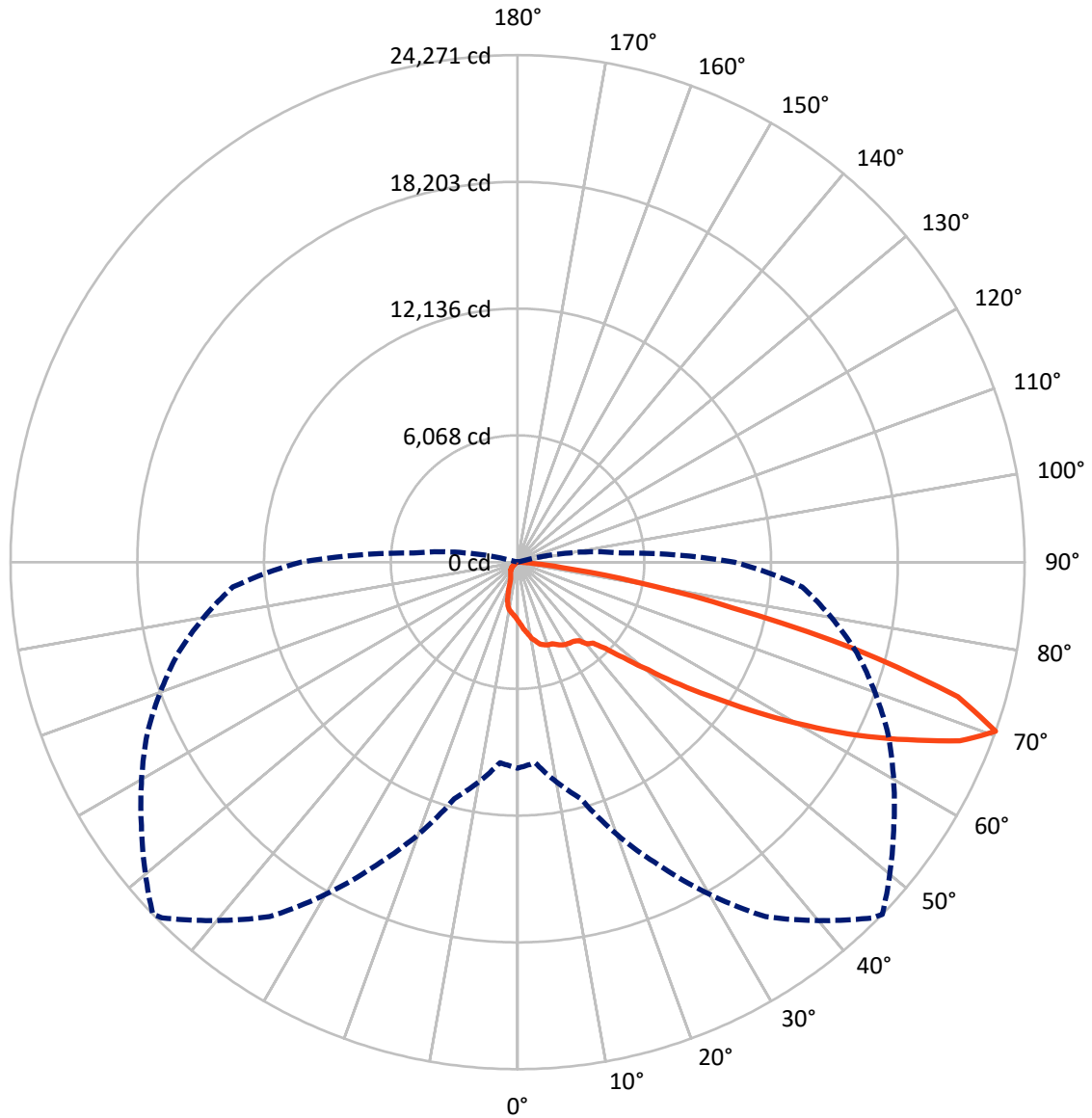
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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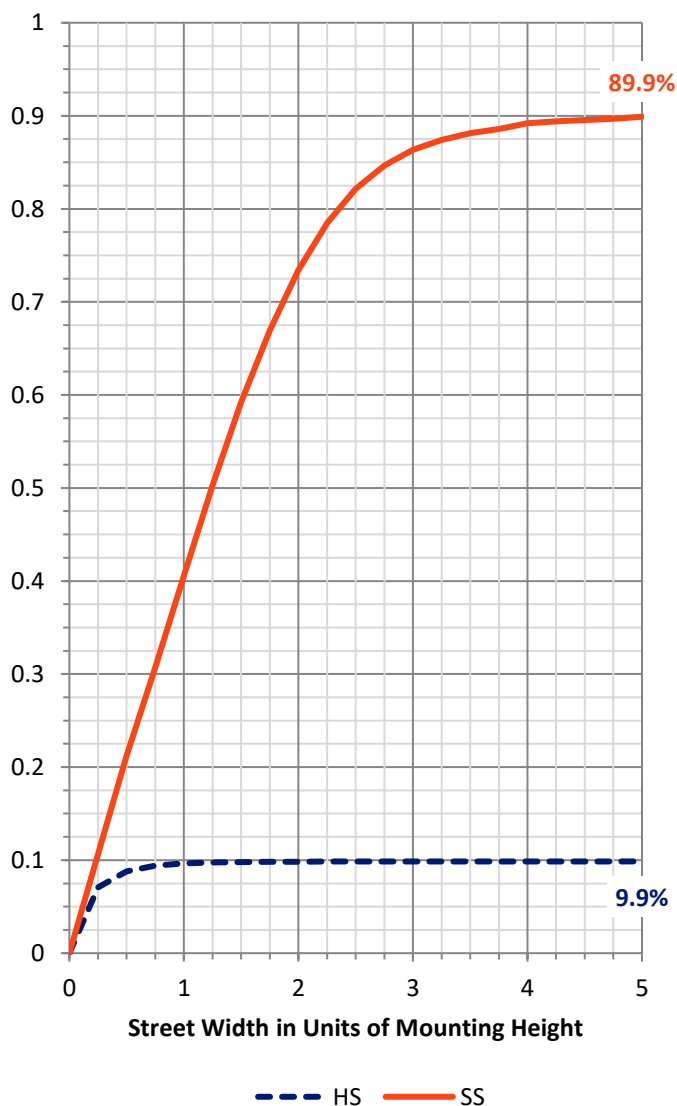
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2845.6	0.0	2845.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	25752.8	0.0	25752.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	28598.4	0.0	28598.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	1.0
10°-20°	845.4	3.0
20°-30°	1354.1	4.7
30°-40°	1932.8	6.8
40°-50°	3337.5	11.7
50°-60°	6389.9	22.3
60°-70°	9462.4	33.1
70°-80°	4686.6	16.4
80°-90°	309.7	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°	28598.4	100.0
0°-180°	28598.4	100.0

Coefficient of Utilization



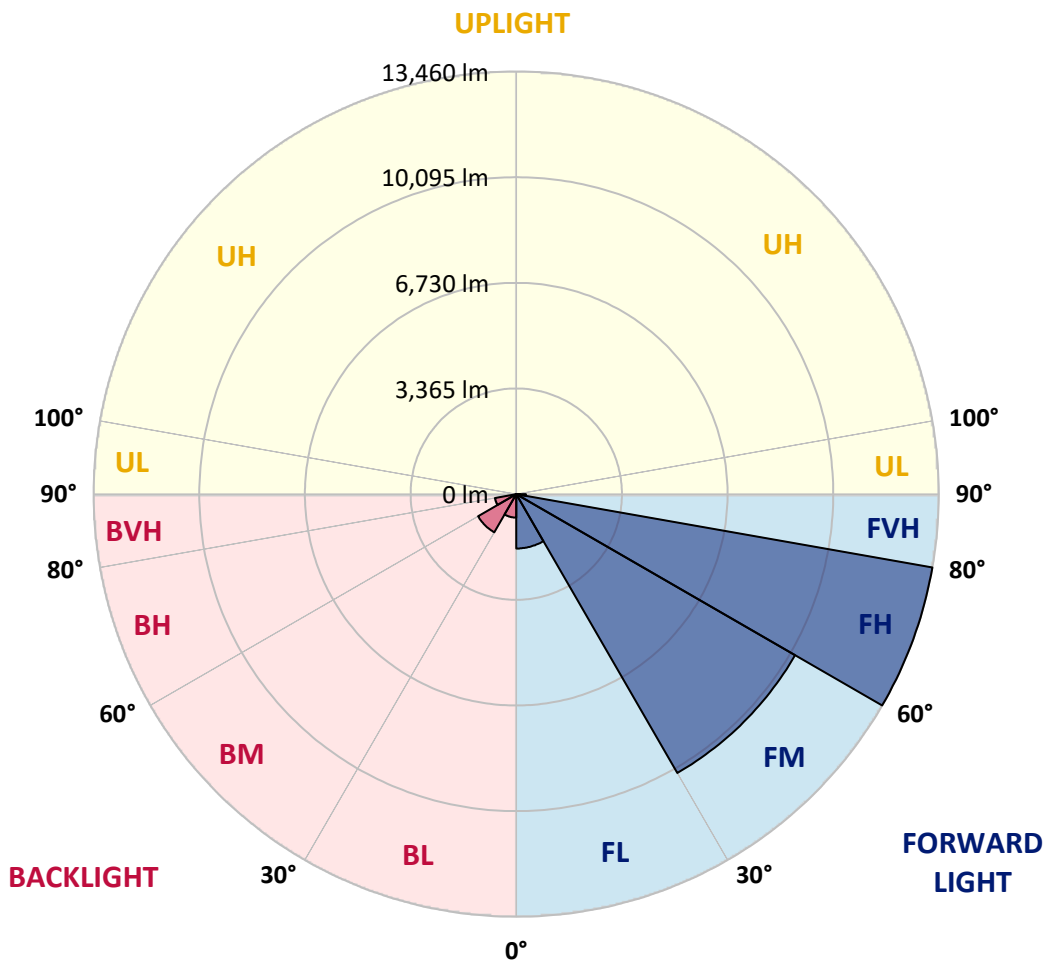
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.8	6.1			
FM (30°-60°)	10255.3	35.9			
FH (60°-80°)	13459.9	47.1			G5
FVH (80°-90°)	305.7	1.1			G3/500
BL (0°-30°)	747.6	2.6	B2/1000		
BM (30°-60°)	1404.9	4.9	B2/2500		
BH (60°-80°)	689.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5
2.5°	3132.7	3112.1	3079.2	3066.8	3033.9	3017.4	2992.7	2980.4	2935.1	2889.8	2861.0
5°	3515.5	3466.1	3482.6	3433.2	3326.2	3239.7	3235.6	3140.9	3038.0	2955.7	2844.5
7.5°	3902.5	3861.3	3799.6	3729.6	3610.2	3482.6	3445.5	3355.0	3210.9	3066.8	2918.6
10°	4194.7	4165.9	4112.4	4013.6	3849.0	3704.9	3709.0	3556.7	3404.4	3239.7	3038.0
12.5°	4375.9	4388.2	4310.0	4211.2	4067.1	3886.0	3881.9	3779.0	3606.1	3433.2	3194.4
15°	4557.0	4602.3	4482.9	4367.6	4182.4	4050.7	4075.4	3951.9	3783.1	3585.5	3322.0
17.5°	4585.8	4598.2	4573.5	4404.7	4268.8	4157.7	4161.8	4079.5	3951.9	3737.8	3511.4
20°	4536.4	4528.2	4499.4	4375.9	4285.3	4219.4	4223.6	4203.0	4133.0	3960.1	3651.4
22.5°	4392.3	4392.3	4355.3	4273.0	4231.8	4293.5	4244.1	4322.4	4248.3	4145.3	3890.1
25°	4277.1	4322.4	4301.8	4248.3	4264.7	4347.1	4371.8	4445.9	4433.5	4305.9	4054.8
27.5°	4400.6	4347.1	4359.4	4297.7	4359.4	4482.9	4495.2	4548.8	4544.6	4441.7	4203.0
30°	4482.9	4532.3	4437.6	4301.8	4367.6	4577.6	4569.3	4639.3	4672.3	4548.8	4342.9
32.5°	4746.4	4705.2	4627.0	4445.9	4454.1	4573.5	4610.5	4701.1	4721.7	4647.6	4478.8
35°	5285.6	5223.9	4882.2	4610.5	4569.3	4627.0	4651.7	4828.7	4865.7	4783.4	4622.9
37.5°	6117.2	5977.2	5565.5	4964.5	4779.3	4766.9	4766.9	5001.6	5141.5	4952.2	4836.9
40°	7306.8	7109.2	6664.7	5619.1	5055.1	5104.5	5153.9	5281.5	5265.0	5141.5	5116.8
42.5°	8821.7	8669.4	8187.8	6718.2	5582.0	5335.0	5293.9	5466.7	5726.1	5676.7	5660.2
45°	10085.5	10093.7	9785.0	8224.8	6491.8	5866.1	5894.9	6026.6	6462.9	6425.9	6421.8
47.5°	11007.6	10892.3	10847.1	9678.0	7817.3	6874.6	6833.4	6924.0	7492.1	7726.7	7833.8
50°	11847.4	11769.2	11662.1	11089.9	9410.4	8138.4	8097.2	8105.4	8974.0	9303.4	9566.8
52.5°	12888.9	12987.6	12633.6	12283.7	11472.8	9780.9	9735.6	9575.0	10653.6	11106.4	11419.2
55°	14173.2	13988.0	13588.7	13769.8	13444.6	11555.1	11472.8	11283.4	12567.8	12757.1	13086.4
57.5°	14457.2	14317.3	14728.9	15371.1	15684.0	13638.1	13605.1	13263.5	14177.3	14004.4	14934.8
60°	15165.3	15202.3	15774.5	17050.7	17594.0	16042.1	15881.6	15280.6	15737.5	15770.4	16762.5
62.5°	15893.9	15807.5	17087.7	18314.4	19150.1	18318.6	18265.0	17071.2	17589.9	17170.0	18483.2
65°	15358.8	15490.5	17322.4	19376.5	21167.2	20545.6	20500.3	18796.1	19080.1	18557.3	19183.0
67.5°	13456.9	13189.4	15754.0	18890.7	22204.6	22879.7	22830.3	20677.3	19919.9	18549.1	17729.9
70°	9863.2	9632.7	11723.9	15996.8	20718.5	24073.5	24271.1	21986.4	19578.2	16820.1	13679.2
72.5°	4832.8	4836.9	6570.0	10847.1	16392.0	21941.1	22039.9	20158.6	16820.1	12399.0	7747.3
75°	1428.4	1444.9	2432.9	5318.6	10595.9	16663.7	16774.9	15301.1	11658.0	6405.3	2642.8
77.5°	522.8	522.8	806.8	1996.5	5285.6	10517.7	10509.5	9393.9	5903.1	2169.4	617.5
80°	271.7	284.0	419.9	815.1	2288.8	5479.1	5684.9	4598.2	2243.5	913.9	181.1
82.5°	111.1	123.5	230.5	419.9	1099.1	1922.4	2103.5	1803.0	975.6	638.1	82.3
85°	32.9	37.0	111.1	234.6	432.2	481.6	535.1	605.1	613.4	494.0	37.0
87.5°	4.1	4.1	45.3	78.2	94.7	102.9	119.4	119.4	312.9	345.8	20.6
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°	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5	2807.5
2.5°	2828.1	2807.5	2774.5	2700.4	2684.0	2630.5	2626.3	2576.9	2593.4	2560.5	2548.1
5°	2807.5	2762.2	2671.6	2614.0	2556.4	2519.3	2494.6	2474.0	2469.9	2453.5	2445.2
7.5°	2844.5	2782.8	2642.8	2552.2	2453.5	2420.5	2367.0	2362.9	2334.1	2305.3	2305.3
10°	2968.0	2856.9	2704.6	2552.2	2424.6	2317.6	2194.1	2103.5	2070.6	1996.5	2004.7
12.5°	3066.8	2968.0	2745.7	2589.3	2395.8	2152.9	1881.3	1671.3	1572.5	1477.8	1514.9
15°	3206.8	3062.7	2823.9	2597.5	2284.7	1864.8	1420.2	1185.6	1095.0	1074.4	1070.3
17.5°	3359.1	3206.8	2922.7	2576.9	2058.3	1440.8	1045.6	909.8	926.2	950.9	946.8
20°	3527.9	3342.6	2996.8	2507.0	1700.1	1045.6	856.2	852.1	876.8	913.9	922.1
22.5°	3704.9	3544.3	3087.4	2297.0	1267.9	839.8	823.3	823.3	839.8	885.1	876.8
25°	3902.5	3688.4	3132.7	1971.8	909.8	773.9	782.1	798.6	806.8	843.9	848.0
27.5°	4054.8	3849.0	3145.0	1580.7	741.0	716.3	736.9	757.4	769.8	798.6	811.0
30°	4194.7	4050.7	3079.2	1177.3	679.2	666.9	675.1	703.9	728.6	753.3	753.3
32.5°	4371.8	4165.9	2926.9	835.7	642.2	621.6	617.5	629.8	658.6	687.5	687.5
35°	4552.9	4359.4	2684.0	671.0	609.2	580.4	564.0	551.6	564.0	584.5	601.0
37.5°	4816.3	4651.7	2379.4	617.5	584.5	543.4	510.4	481.6	461.1	456.9	469.3
40°	5190.9	4981.0	1988.3	580.4	555.7	506.3	456.9	407.5	362.3	333.4	337.6
42.5°	5759.0	5466.7	1564.3	559.8	535.1	465.2	395.2	325.2	267.6	238.8	238.8
45°	6570.0	6108.9	1148.5	539.3	510.4	415.8	325.2	242.9	185.2	168.8	172.9
47.5°	7792.6	6882.8	823.3	506.3	477.5	362.3	255.2	172.9	135.8	127.6	131.7
50°	9389.8	7800.8	642.2	469.3	436.4	304.6	189.4	127.6	107.0	102.9	107.0
52.5°	11065.2	8727.0	564.0	436.4	374.6	242.9	140.0	102.9	90.6	86.4	90.6
55°	12497.8	9323.9	489.9	387.0	300.5	181.1	111.1	90.6	78.2	65.9	65.9
57.5°	13946.8	9624.4	387.0	321.1	222.3	135.8	94.7	78.2	65.9	53.5	49.4
60°	15124.1	9838.5	275.8	238.8	156.4	107.0	82.3	70.0	53.5	41.2	37.0
62.5°	15898.0	9225.1	201.7	181.1	115.3	90.6	70.0	57.6	41.2	28.8	28.8
65°	15515.2	8377.1	156.4	127.6	86.4	70.0	57.6	41.2	28.8	16.5	12.3
67.5°	13922.1	6825.2	127.6	94.7	65.9	53.5	45.3	32.9	16.5	4.1	4.1
70°	10386.0	5001.6	102.9	70.0	53.5	41.2	32.9	20.6	8.2	4.1	0.0
72.5°	5680.8	2737.5	82.3	57.6	41.2	32.9	24.7	16.5	8.2	0.0	0.0
75°	1877.1	728.6	61.7	41.2	24.7	20.6	16.5	12.3	4.1	0.0	0.0
77.5°	452.8	189.4	49.4	37.0	20.6	12.3	8.2	4.1	4.1	0.0	0.0
80°	140.0	78.2	37.0	24.7	16.5	12.3	4.1	0.0	0.0	0.0	0.0
82.5°	57.6	37.0	16.5	16.5	12.3	4.1	0.0	0.0	0.0	0.0	0.0
85°	28.8	20.6	12.3	8.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	20.6	8.2	4.1	4.1	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)