

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: P483593

Luminaire Tested: **IFLD-S-SA6B-735-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483593
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24291.3 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

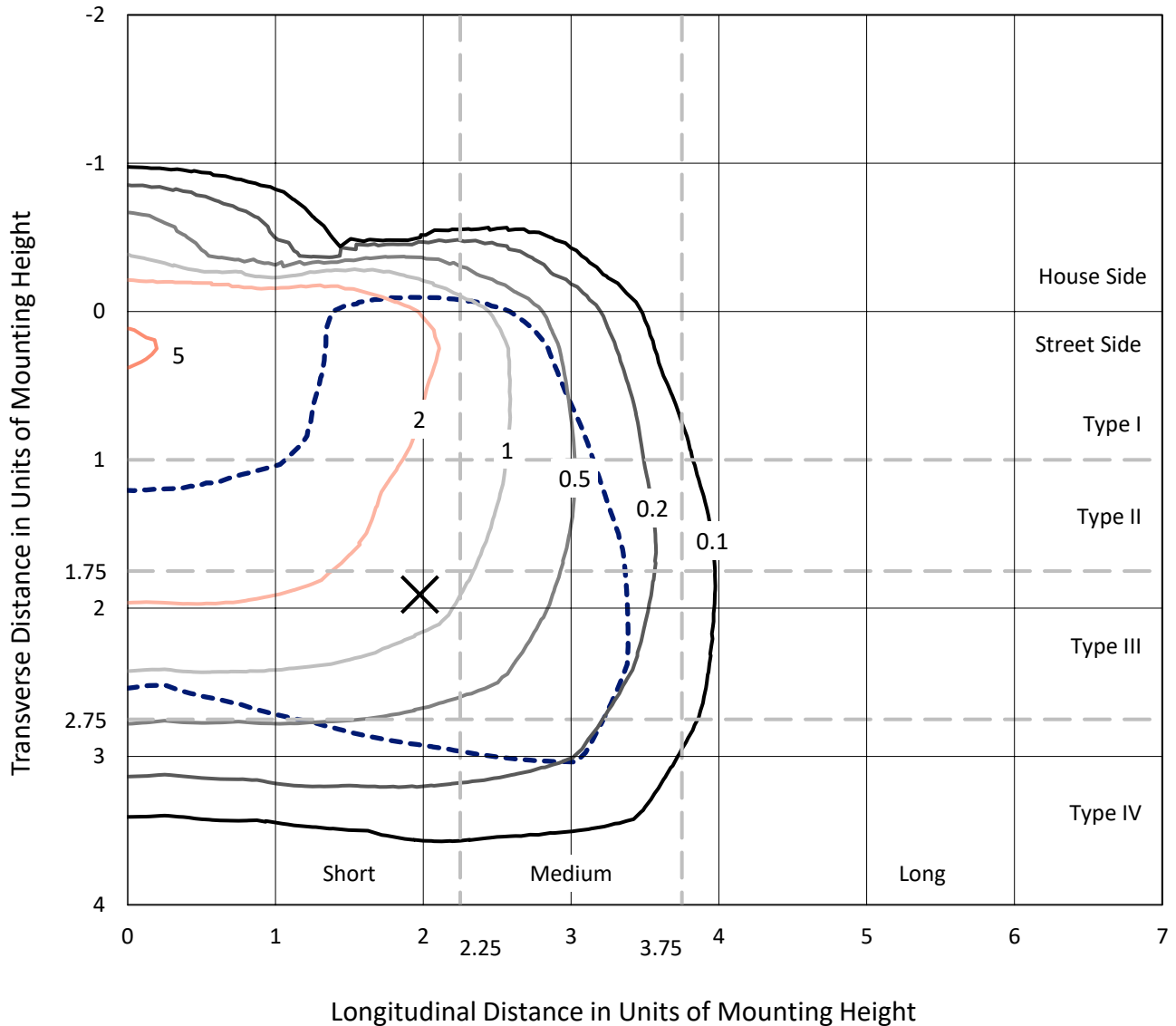
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

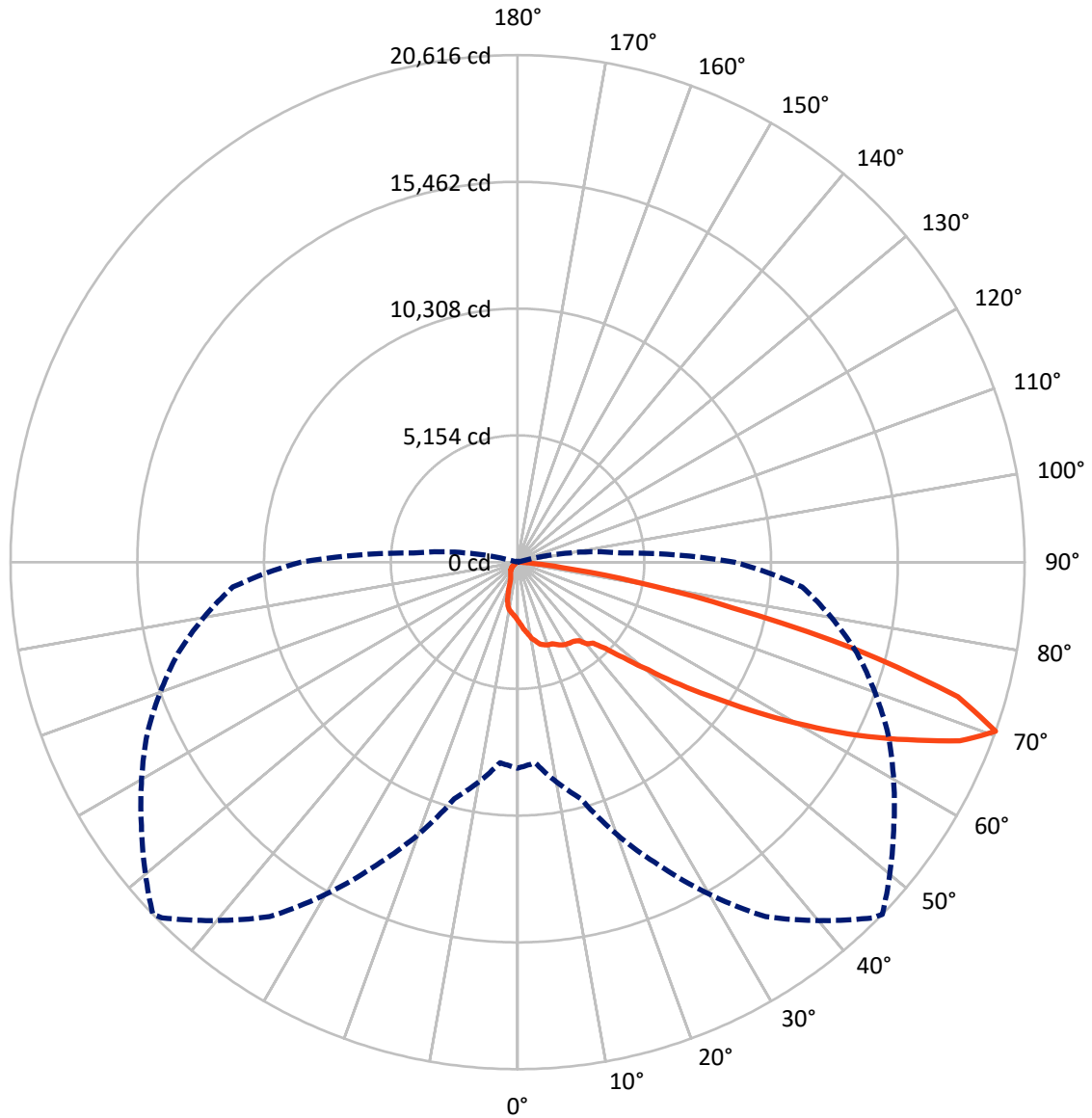
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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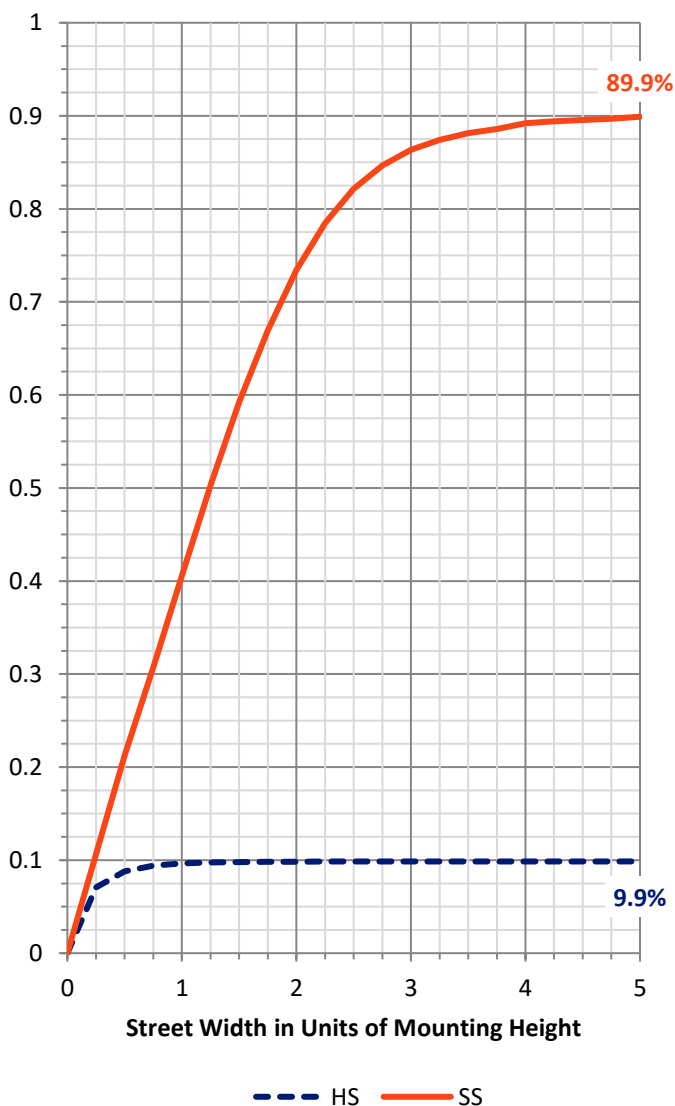
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2417.1	0.0	2417.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	21874.2	0.0	21874.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	24291.3	0.0	24291.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.0
10°-20°	718.1	3.0
20°-30°	1150.2	4.7
30°-40°	1641.7	6.8
40°-50°	2834.8	11.7
50°-60°	5427.5	22.3
60°-70°	8037.3	33.1
70°-80°	3980.8	16.4
80°-90°	263.0	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°	24291.3	100.0
0°-180°	24291.3	100.0

Coefficient of Utilization

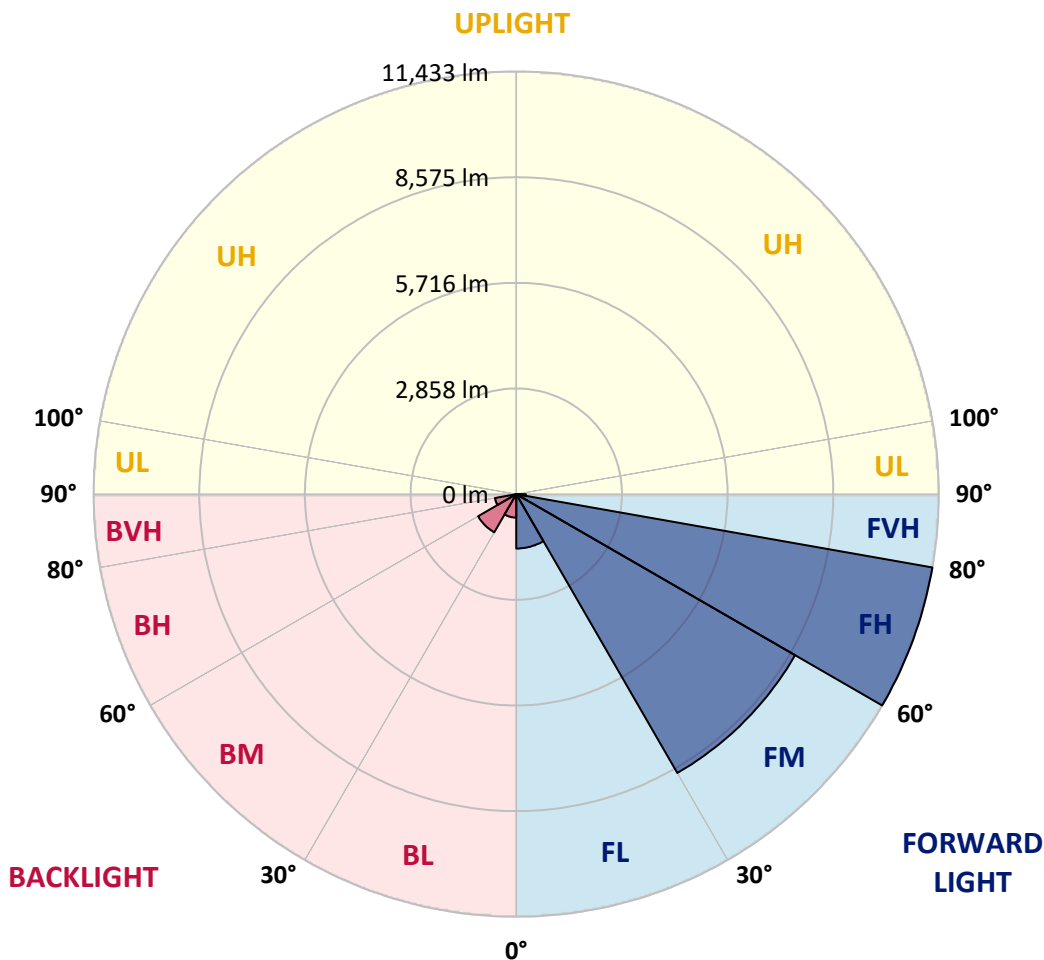


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.0	6.1			
FM (30°-60°)	8710.8	35.9			
FH (60°-80°)	11432.7	47.1			G4/12000
FVH (80°-90°)	259.7	1.1			G3/500
BL (0°-30°)	635.0	2.6	B2/1000		
BM (30°-60°)	1193.3	4.9	B2/2500		
BH (60°-80°)	585.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.3	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6
2.5°	2660.9	2643.4	2615.4	2604.9	2577.0	2563.0	2542.0	2531.5	2493.0	2454.6	2430.1
5°	2986.1	2944.1	2958.1	2916.1	2825.2	2751.8	2748.3	2667.9	2580.5	2510.5	2416.1
7.5°	3314.7	3279.8	3227.3	3167.9	3066.5	2958.1	2926.6	2849.7	2727.3	2604.9	2479.1
10°	3563.0	3538.5	3493.1	3409.1	3269.3	3146.9	3150.4	3021.0	2891.6	2751.8	2580.5
12.5°	3716.8	3727.3	3660.9	3577.0	3454.6	3300.7	3297.2	3209.8	3063.0	2916.1	2713.3
15°	3870.7	3909.1	3807.7	3709.8	3552.5	3440.6	3461.6	3356.7	3213.3	3045.5	2821.7
17.5°	3895.2	3905.7	3884.7	3741.3	3625.9	3531.5	3535.0	3465.1	3356.7	3174.9	2982.6
20°	3853.2	3846.2	3821.7	3716.8	3639.9	3584.0	3587.5	3570.0	3510.5	3363.7	3101.4
22.5°	3730.8	3730.8	3699.4	3629.4	3594.5	3646.9	3604.9	3671.4	3608.4	3521.0	3304.2
25°	3632.9	3671.4	3653.9	3608.4	3622.4	3692.4	3713.3	3776.3	3765.8	3657.4	3444.1
27.5°	3737.8	3692.4	3702.9	3650.4	3702.9	3807.7	3818.2	3863.7	3860.2	3772.8	3570.0
30°	3807.7	3849.7	3769.3	3653.9	3709.8	3888.2	3881.2	3940.6	3968.6	3863.7	3688.9
32.5°	4031.5	3996.6	3930.1	3776.3	3783.3	3884.7	3916.1	3993.1	4010.5	3947.6	3804.3
35°	4489.6	4437.1	4146.9	3916.1	3881.2	3930.1	3951.1	4101.5	4132.9	4063.0	3926.6
37.5°	5195.9	5077.0	4727.3	4216.8	4059.5	4049.0	4049.0	4248.3	4367.2	4206.4	4108.5
40°	6206.4	6038.5	5660.9	4772.8	4293.8	4335.7	4377.7	4486.1	4472.1	4367.2	4346.2
42.5°	7493.1	7363.7	6954.6	5706.4	4741.3	4531.5	4496.6	4643.4	4863.7	4821.7	4807.8
45°	8566.6	8573.5	8311.3	6986.1	5514.1	4982.6	5007.1	5119.0	5489.6	5458.1	5454.6
47.5°	9349.8	9251.9	9213.4	8220.4	6640.0	5839.2	5804.3	5881.2	6363.7	6563.0	6653.9
50°	10063.1	9996.6	9905.7	9419.7	7993.1	6912.7	6877.7	6884.7	7622.5	7902.2	8126.0
52.5°	10947.7	11031.6	10730.9	10433.7	9744.9	8307.8	8269.3	8133.0	9049.1	9433.7	9699.4
55°	12038.6	11881.3	11542.1	11696.0	11419.7	9814.8	9744.9	9584.1	10675.0	10835.8	11115.5
57.5°	12279.9	12161.0	12510.7	13056.1	13321.9	11584.1	11556.1	11265.9	12042.1	11895.3	12685.5
60°	12881.3	12912.8	13398.8	14482.7	14944.3	13626.1	13489.7	12979.2	13367.3	13395.3	14238.0
62.5°	13500.2	13426.8	14514.2	15556.2	16266.0	15559.7	15514.2	14500.2	14940.8	14584.1	15699.5
65°	13045.6	13157.5	14713.5	16458.3	17979.3	17451.3	17412.8	15965.3	16206.5	15762.5	16293.9
67.5°	11430.2	11203.0	13381.3	16045.7	18860.4	19433.8	19391.9	17563.2	16919.8	15755.5	15059.7
70°	8377.7	8181.9	9958.2	13587.6	17598.2	20447.8	20615.7	18675.1	16629.6	14286.9	11619.0
72.5°	4105.0	4108.5	5580.5	9213.4	13923.3	18636.6	18720.5	17122.6	14286.9	10531.6	6580.5
75°	1213.3	1227.3	2066.5	4517.5	9000.1	14154.0	14248.5	12996.7	9902.2	5440.6	2244.8
77.5°	444.1	444.1	685.3	1695.8	4489.6	8933.7	8926.7	7979.1	5014.1	1842.7	524.5
80°	230.8	241.3	356.6	692.3	1944.1	4653.9	4828.7	3905.7	1905.6	776.2	153.8
82.5°	94.4	104.9	195.8	356.6	933.6	1632.9	1786.7	1531.5	828.7	542.0	69.9
85°	28.0	31.5	94.4	199.3	367.1	409.1	454.6	514.0	521.0	419.6	31.5
87.5°	3.5	3.5	38.5	66.4	80.4	87.4	101.4	101.4	265.7	293.7	17.5
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°	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6
2.5°	2402.1	2384.6	2356.7	2293.7	2279.8	2234.3	2230.8	2188.8	2202.8	2174.9	2164.4
5°	2384.6	2346.2	2269.3	2220.3	2171.4	2139.9	2118.9	2101.4	2097.9	2083.9	2077.0
7.5°	2416.1	2363.7	2244.8	2167.9	2083.9	2056.0	2010.5	2007.0	1982.5	1958.1	1958.1
10°	2521.0	2426.6	2297.2	2167.9	2059.5	1968.6	1863.7	1786.7	1758.8	1695.8	1702.8
12.5°	2604.9	2521.0	2332.2	2199.3	2035.0	1828.7	1597.9	1419.6	1335.7	1255.3	1286.7
15°	2723.8	2601.4	2398.6	2206.3	1940.6	1583.9	1206.3	1007.0	930.1	912.6	909.1
17.5°	2853.2	2723.8	2482.6	2188.8	1748.3	1223.8	888.1	772.7	786.7	807.7	804.2
20°	2996.5	2839.2	2545.5	2129.4	1444.1	888.1	727.3	723.8	744.8	776.2	783.2
22.5°	3146.9	3010.5	2622.4	1951.1	1076.9	713.3	699.3	699.3	713.3	751.8	744.8
25°	3314.7	3132.9	2660.9	1674.8	772.7	657.4	664.3	678.3	685.3	716.8	720.3
27.5°	3444.1	3269.3	2671.4	1342.7	629.4	608.4	625.9	643.4	653.9	678.3	688.8
30°	3563.0	3440.6	2615.4	1000.0	576.9	566.4	573.4	597.9	618.9	639.9	639.9
32.5°	3713.3	3538.5	2486.0	709.8	545.5	528.0	524.5	535.0	559.4	583.9	583.9
35°	3867.2	3702.9	2279.8	569.9	517.5	493.0	479.0	468.5	479.0	496.5	510.5
37.5°	4091.0	3951.1	2021.0	524.5	496.5	461.5	433.6	409.1	391.6	388.1	398.6
40°	4409.2	4230.8	1688.8	493.0	472.0	430.1	388.1	346.2	307.7	283.2	286.7
42.5°	4891.7	4643.4	1328.7	475.5	454.6	395.1	335.7	276.2	227.3	202.8	202.8
45°	5580.5	5188.9	975.5	458.0	433.6	353.2	276.2	206.3	157.3	143.4	146.9
47.5°	6619.0	5846.2	699.3	430.1	405.6	307.7	216.8	146.9	115.4	108.4	111.9
50°	7975.6	6626.0	545.5	398.6	370.6	258.7	160.8	108.4	90.9	87.4	90.9
52.5°	9398.7	7412.7	479.0	370.6	318.2	206.3	118.9	87.4	76.9	73.4	76.9
55°	10615.5	7919.7	416.1	328.7	255.2	153.8	94.4	76.9	66.4	55.9	55.9
57.5°	11846.3	8174.9	328.7	272.7	188.8	115.4	80.4	66.4	55.9	45.5	42.0
60°	12846.3	8356.8	234.3	202.8	132.9	90.9	69.9	59.4	45.5	35.0	31.5
62.5°	13503.7	7835.8	171.3	153.8	97.9	76.9	59.4	49.0	35.0	24.5	24.5
65°	13178.5	7115.5	132.9	108.4	73.4	59.4	49.0	35.0	24.5	14.0	10.5
67.5°	11825.3	5797.3	108.4	80.4	55.9	45.5	38.5	28.0	14.0	3.5	3.5
70°	8821.8	4248.3	87.4	59.4	45.5	35.0	28.0	17.5	7.0	3.5	0.0
72.5°	4825.2	2325.2	69.9	49.0	35.0	28.0	21.0	14.0	7.0	0.0	0.0
75°	1594.4	618.9	52.4	35.0	21.0	17.5	14.0	10.5	3.5	0.0	0.0
77.5°	384.6	160.8	42.0	31.5	17.5	10.5	7.0	3.5	3.5	0.0	0.0
80°	118.9	66.4	31.5	21.0	14.0	10.5	3.5	0.0	0.0	0.0	0.0
82.5°	49.0	31.5	14.0	14.0	10.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	24.5	17.5	10.5	7.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	7.0	3.5	3.5	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)