

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: P483789

Luminaire Tested: **IFLD-S-SA6C-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483789
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24361.2 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

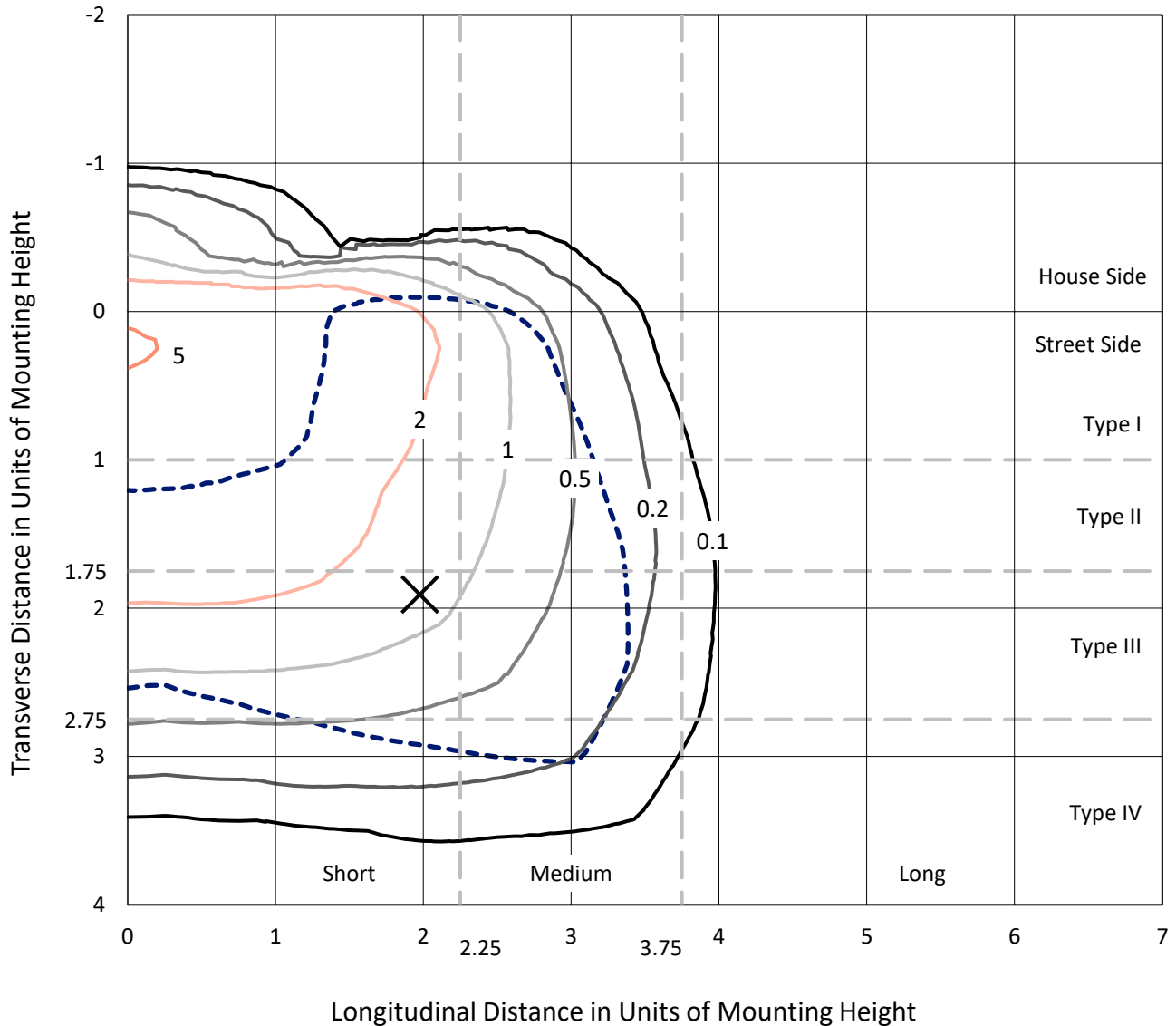
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

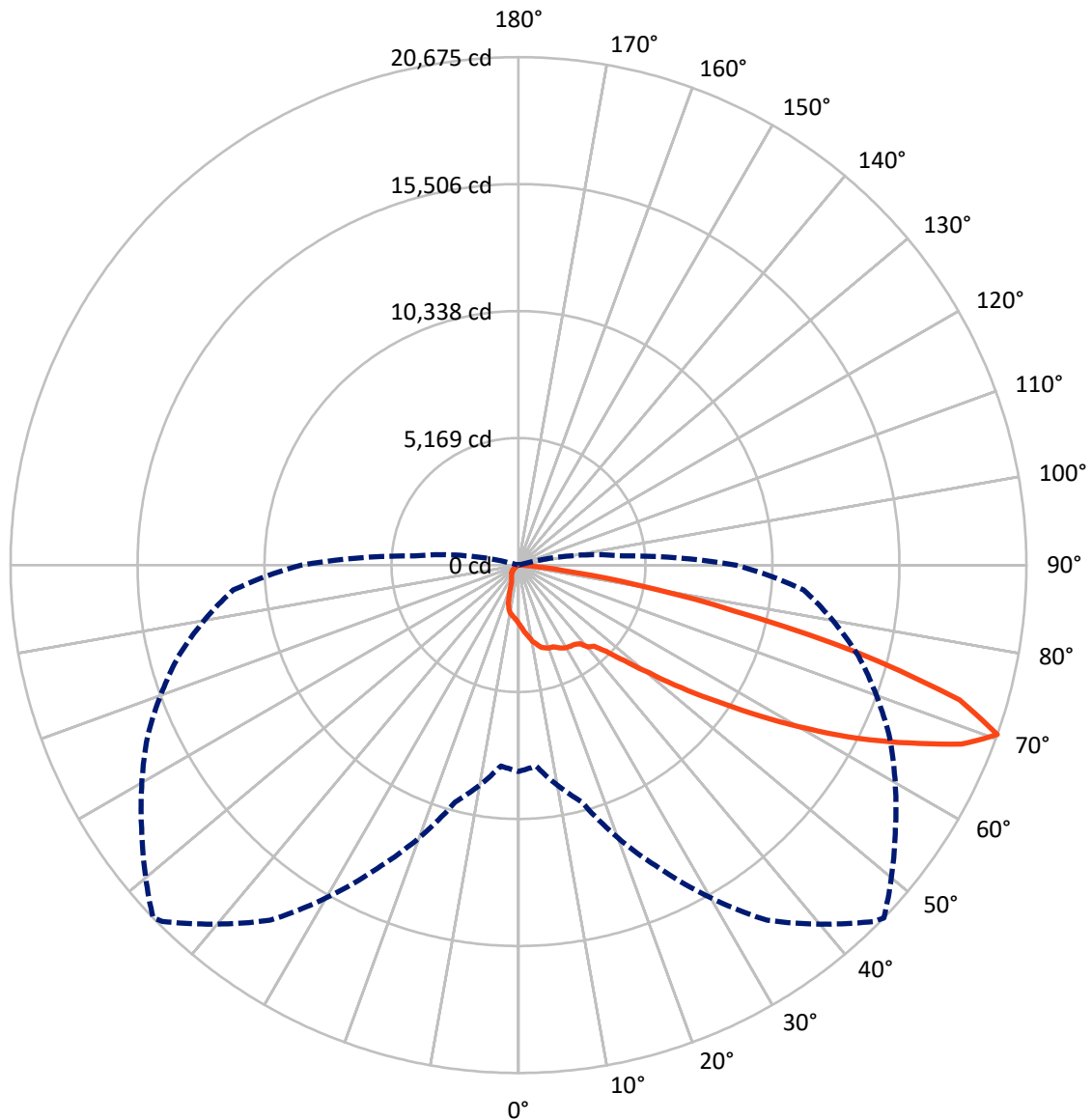
× Max cd
 - - - 1/2 Max cd



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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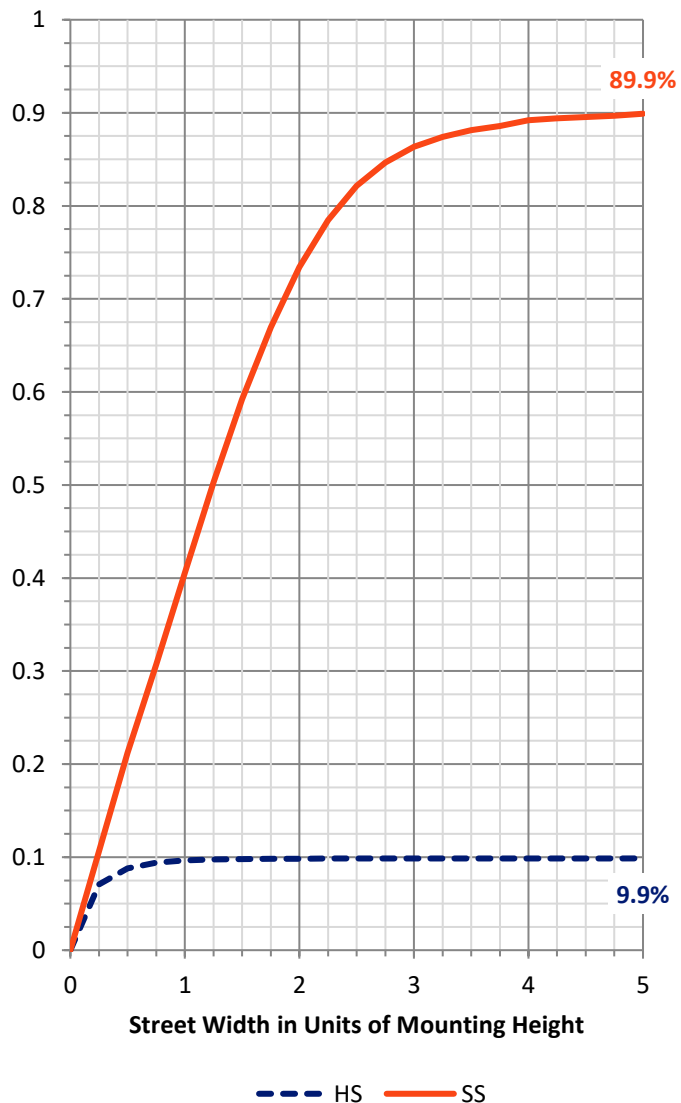
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2424.0	0.0	2424.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	21937.2	0.0	21937.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	24361.2	0.0	24361.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	1.0
10°-20°	720.1	3.0
20°-30°	1153.5	4.7
30°-40°	1646.5	6.8
40°-50°	2843.0	11.7
50°-60°	5443.2	22.3
60°-70°	8060.4	33.1
70°-80°	3992.3	16.4
80°-90°	263.8	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°	24361.2	100.0
0°-180°	24361.2	100.0

Coefficient of Utilization



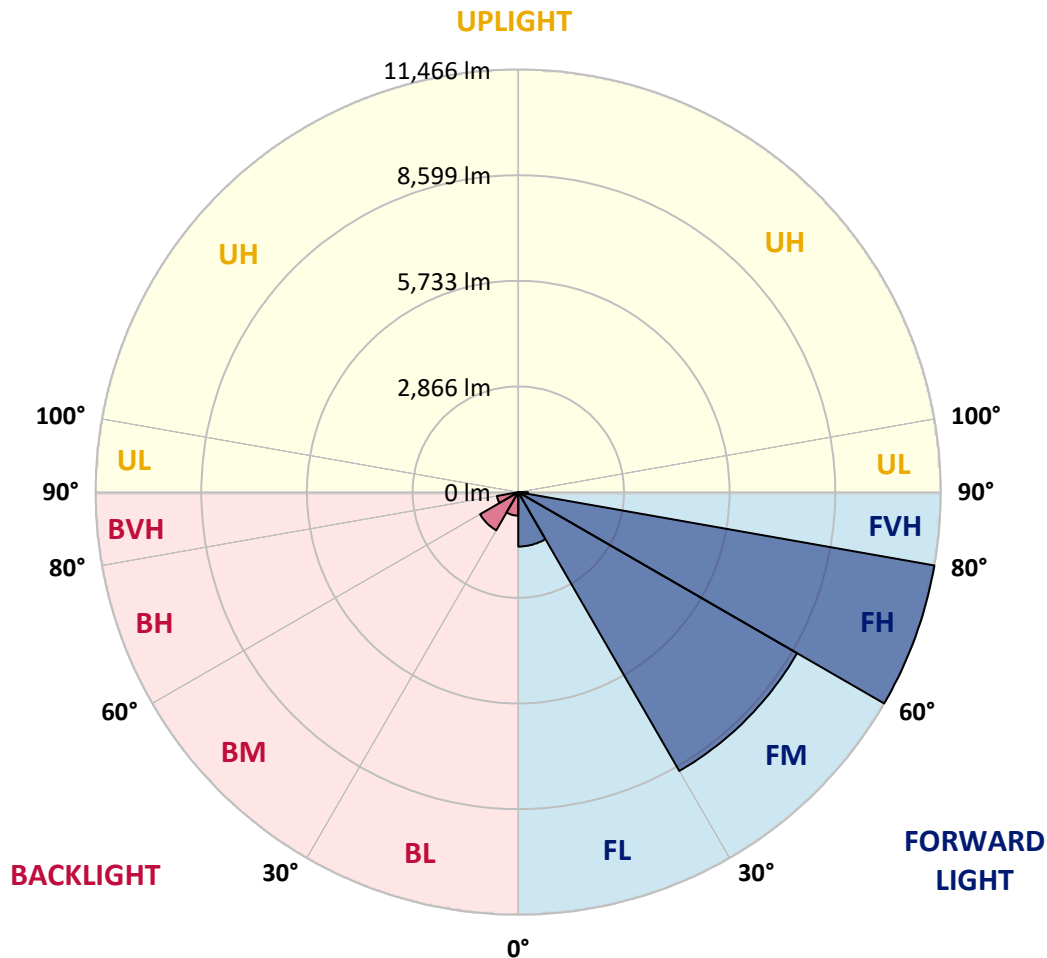
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1475.2	6.1			
FM	(30°-60°)	8735.9	35.9			
FH	(60°-80°)	11465.6	47.1			G4/12000
FVH	(80°-90°)	260.5	1.1			G3/500
BL	(0°-30°)	636.8	2.6	B2/1000		
BM	(30°-60°)	1196.7	4.9	B2/2500		
BH	(60°-80°)	587.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.4	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°	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5
2.5°	2668.5	2651.0	2622.9	2612.4	2584.4	2570.3	2549.3	2538.8	2500.2	2461.6	2437.1
5°	2994.6	2952.6	2966.6	2924.5	2833.3	2759.7	2756.2	2675.5	2587.9	2517.7	2423.1
7.5°	3324.3	3289.2	3236.6	3177.0	3075.3	2966.6	2935.0	2857.9	2735.2	2612.4	2486.2
10°	3573.2	3548.7	3503.1	3418.9	3278.7	3156.0	3159.5	3029.7	2900.0	2759.7	2587.9
12.5°	3727.5	3738.0	3671.4	3587.3	3464.5	3310.2	3306.7	3219.1	3071.8	2924.5	2721.1
15°	3881.8	3920.4	3818.7	3720.5	3562.7	3450.5	3471.5	3366.3	3222.6	3054.3	2829.8
17.5°	3906.4	3916.9	3895.8	3752.1	3636.4	3541.7	3545.2	3475.1	3366.3	3184.0	2991.1
20°	3864.3	3857.3	3832.7	3727.5	3650.4	3594.3	3597.8	3580.3	3520.6	3373.4	3110.4
22.5°	3741.6	3741.6	3710.0	3639.9	3604.8	3657.4	3615.3	3681.9	3618.8	3531.2	3313.7
25°	3643.4	3681.9	3664.4	3618.8	3632.8	3703.0	3724.0	3787.1	3776.6	3667.9	3454.0
27.5°	3748.6	3703.0	3713.5	3660.9	3713.5	3818.7	3829.2	3874.8	3871.3	3783.6	3580.3
30°	3818.7	3860.8	3780.1	3664.4	3720.5	3899.4	3892.3	3952.0	3980.0	3874.8	3699.5
32.5°	4043.1	4008.1	3941.4	3787.1	3794.2	3895.8	3927.4	4004.6	4022.1	3959.0	3815.2
35°	4502.5	4449.9	4158.8	3927.4	3892.3	3941.4	3962.5	4113.3	4144.8	4074.7	3937.9
37.5°	5210.8	5091.6	4740.9	4229.0	4071.2	4060.7	4060.7	4260.5	4379.8	4218.5	4120.3
40°	6224.2	6055.9	5677.2	4786.5	4306.1	4348.2	4390.3	4499.0	4485.0	4379.8	4358.7
42.5°	7514.7	7384.9	6974.6	5722.8	4755.0	4544.6	4509.5	4656.8	4877.7	4835.6	4821.6
45°	8591.2	8598.2	8335.2	7006.2	5529.9	4996.9	5021.5	5133.7	5505.4	5473.8	5470.3
47.5°	9376.7	9278.5	9239.9	8244.0	6659.1	5856.0	5821.0	5898.1	6382.0	6581.9	6673.1
50°	10092.0	10025.4	9934.2	9446.8	8016.1	6932.6	6897.5	6904.5	7644.4	7924.9	8149.4
52.5°	10979.2	11063.4	10761.8	10463.7	9772.9	8331.7	8293.1	8156.4	9075.1	9460.8	9727.3
55°	12073.3	11915.5	11575.3	11729.6	11452.6	9843.1	9772.9	9611.6	10705.7	10867.0	11147.5
57.5°	12315.2	12196.0	12546.7	13093.7	13360.2	11617.4	11589.4	11298.3	12076.8	11929.5	12722.0
60°	12918.4	12949.9	13437.3	14524.4	14987.3	13665.3	13528.5	13016.5	13405.8	13433.8	14278.9
62.5°	13539.0	13465.4	14555.9	15600.9	16312.8	15604.4	15558.8	14541.9	14983.7	14626.1	15744.7
65°	13083.2	13195.4	14755.8	16505.6	18031.0	17501.5	17462.9	16011.2	16253.1	15807.8	16340.8
67.5°	11463.1	11235.2	13419.8	16091.8	18914.7	19489.7	19447.7	17613.7	16968.5	15800.8	15103.0
70°	8401.8	8205.5	9986.8	13626.7	17648.8	20506.7	20675.0	18728.8	16677.4	14328.0	11652.5
72.5°	4116.8	4120.3	5596.6	9239.9	13963.3	18690.2	18774.4	17171.9	14328.0	10561.9	6599.4
75°	1216.8	1230.8	2072.4	4530.5	9026.0	14194.8	14289.4	13034.1	9930.7	5456.3	2251.2
77.5°	445.3	445.3	687.3	1700.7	4502.5	8959.4	8952.4	8002.1	5028.5	1848.0	526.0
80°	231.4	242.0	357.7	694.3	1949.7	4667.3	4842.6	3916.9	1911.1	778.5	154.3
82.5°	94.7	105.2	196.4	357.7	936.3	1637.6	1791.9	1535.9	831.1	543.5	70.1
85°	28.1	31.6	94.7	199.9	368.2	410.3	455.9	515.5	522.5	420.8	31.6
87.5°	3.5	3.5	38.6	66.6	80.7	87.7	101.7	101.7	266.5	294.6	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°	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5	2391.5
2.5°	2409.0	2391.5	2363.5	2300.3	2286.3	2240.7	2237.2	2195.1	2209.2	2181.1	2170.6
5°	2391.5	2352.9	2275.8	2226.7	2177.6	2146.0	2125.0	2107.5	2104.0	2089.9	2082.9
7.5°	2423.1	2370.5	2251.2	2174.1	2089.9	2061.9	2016.3	2012.8	1988.2	1963.7	1963.7
10°	2528.3	2433.6	2303.8	2174.1	2065.4	1974.2	1869.0	1791.9	1763.8	1700.7	1707.7
12.5°	2612.4	2528.3	2338.9	2205.7	2040.8	1834.0	1602.5	1423.7	1339.5	1258.9	1290.4
15°	2731.7	2608.9	2405.5	2212.7	1946.2	1588.5	1209.8	1009.9	932.8	915.2	911.7
17.5°	2861.4	2731.7	2489.7	2195.1	1753.3	1227.3	890.7	775.0	789.0	810.0	806.5
20°	3005.2	2847.4	2552.8	2135.5	1448.2	890.7	729.4	725.9	746.9	778.5	785.5
22.5°	3156.0	3019.2	2630.0	1956.7	1080.0	715.3	701.3	701.3	715.3	753.9	746.9
25°	3324.3	3141.9	2668.5	1679.7	775.0	659.2	666.3	680.3	687.3	718.9	722.4
27.5°	3454.0	3278.7	2679.1	1346.5	631.2	610.2	627.7	645.2	655.7	680.3	690.8
30°	3573.2	3450.5	2622.9	1002.9	578.6	568.1	575.1	599.6	620.7	641.7	641.7
32.5°	3724.0	3548.7	2493.2	711.8	547.0	529.5	526.0	536.5	561.1	585.6	585.6
35°	3878.3	3713.5	2286.3	571.6	519.0	494.4	480.4	469.9	480.4	497.9	512.0
37.5°	4102.7	3962.5	2026.8	526.0	497.9	462.9	434.8	410.3	392.7	389.2	399.8
40°	4421.8	4243.0	1693.7	494.4	473.4	431.3	389.2	347.2	308.6	284.0	287.5
42.5°	4905.7	4656.8	1332.5	476.9	455.9	396.2	336.6	277.0	227.9	203.4	203.4
45°	5596.6	5203.8	978.3	459.4	434.8	354.2	277.0	206.9	157.8	143.8	147.3
47.5°	6638.0	5863.1	701.3	431.3	406.8	308.6	217.4	147.3	115.7	108.7	112.2
50°	7998.6	6645.0	547.0	399.8	371.7	259.5	161.3	108.7	91.2	87.7	91.2
52.5°	9425.8	7434.0	480.4	371.7	319.1	206.9	119.2	87.7	77.1	73.6	77.1
55°	10646.1	7942.5	417.3	329.6	256.0	154.3	94.7	77.1	66.6	56.1	56.1
57.5°	11880.4	8198.5	329.6	273.5	189.4	115.7	80.7	66.6	56.1	45.6	42.1
60°	12883.3	8380.8	234.9	203.4	133.3	91.2	70.1	59.6	45.6	35.1	31.6
62.5°	13542.5	7858.3	171.8	154.3	98.2	77.1	59.6	49.1	35.1	24.5	24.5
65°	13216.4	7136.0	133.3	108.7	73.6	59.6	49.1	35.1	24.5	14.0	10.5
67.5°	11859.4	5814.0	108.7	80.7	56.1	45.6	38.6	28.1	14.0	3.5	3.5
70°	8847.2	4260.5	87.7	59.6	45.6	35.1	28.1	17.5	7.0	3.5	0.0
72.5°	4839.1	2331.9	70.1	49.1	35.1	28.1	21.0	14.0	7.0	0.0	0.0
75°	1599.0	620.7	52.6	35.1	21.0	17.5	14.0	10.5	3.5	0.0	0.0
77.5°	385.7	161.3	42.1	31.6	17.5	10.5	7.0	3.5	3.5	0.0	0.0
80°	119.2	66.6	31.6	21.0	14.0	10.5	3.5	0.0	0.0	0.0	0.0
82.5°	49.1	31.6	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)