

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: P483805

Luminaire Tested: **IFLD-L-SA8D-830-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483805
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

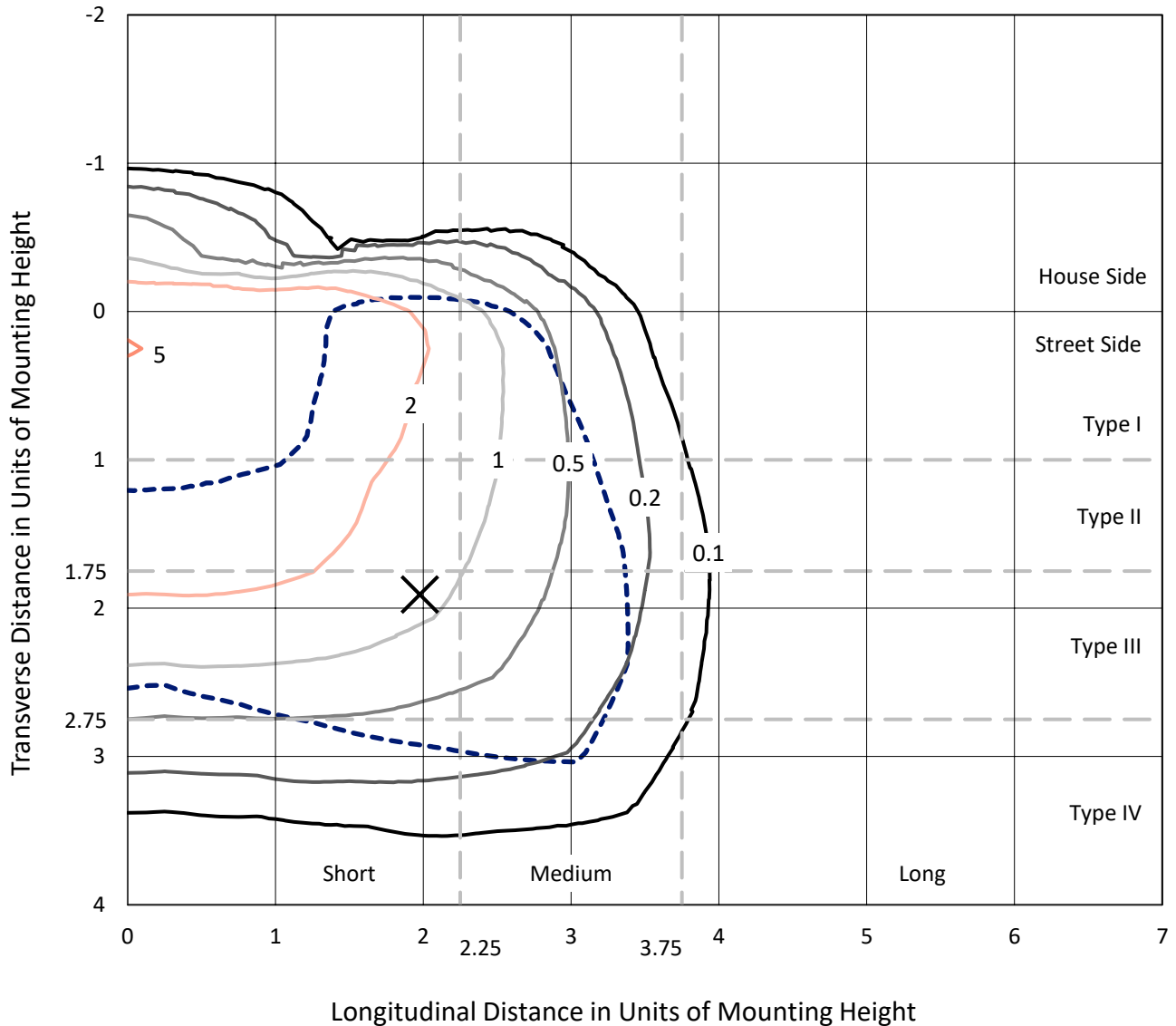
Lumens per Lamp: N/A
Luminaire Lumens: 32684 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

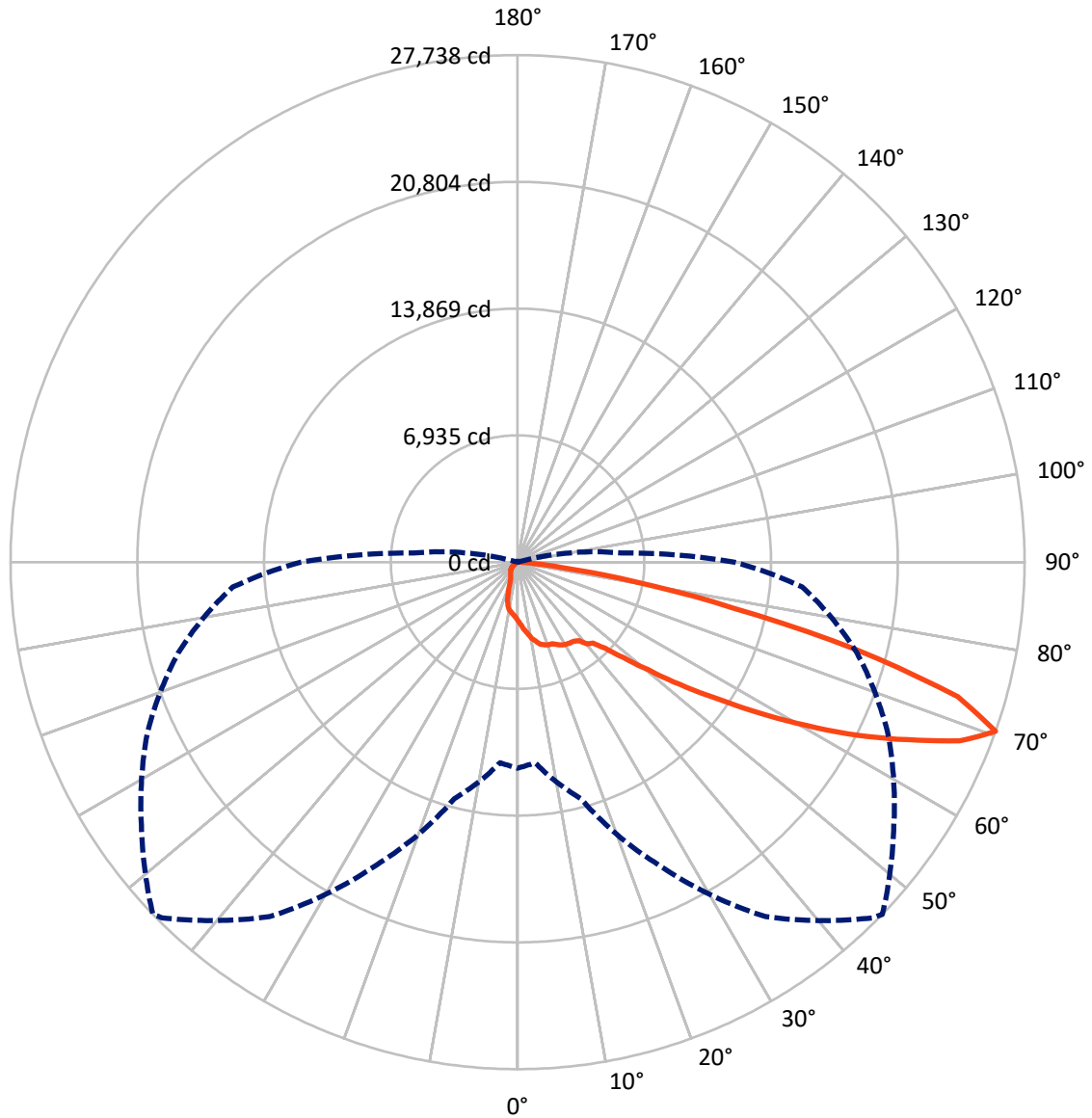
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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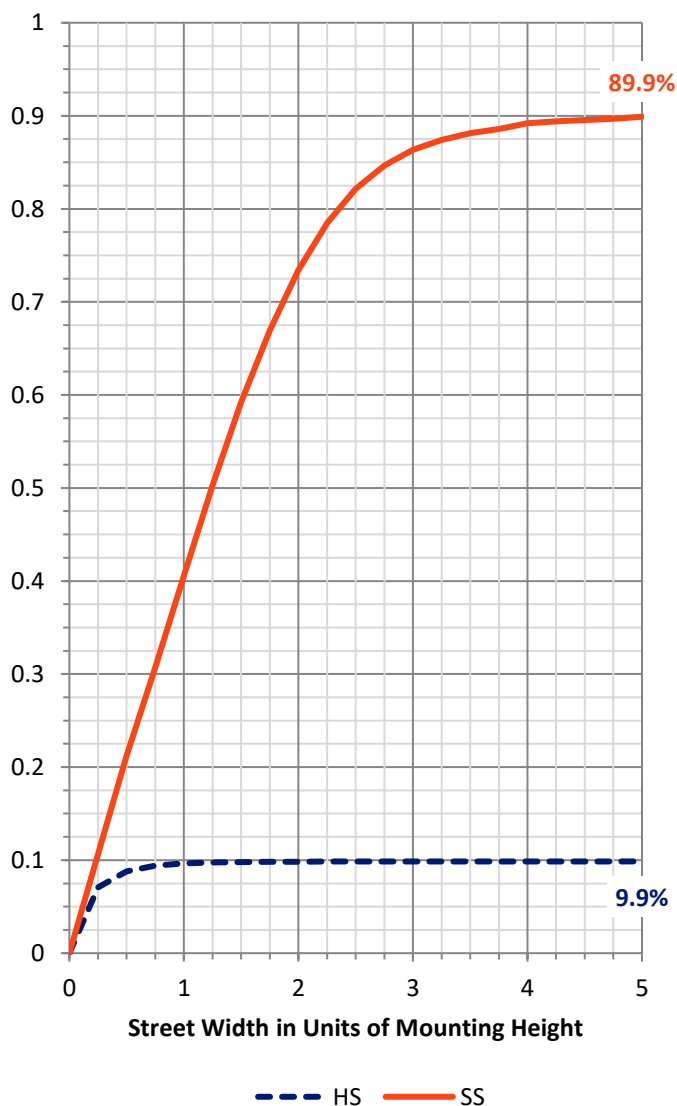
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3252.1	0.0	3252.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	29431.8	0.0	29431.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	32684.0	0.0	32684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.9	1.0
10°-20°	966.2	3.0
20°-30°	1547.6	4.7
30°-40°	2209.0	6.8
40°-50°	3814.3	11.7
50°-60°	7302.8	22.3
60°-70°	10814.2	33.1
70°-80°	5356.2	16.4
80°-90°	353.9	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°	32684.0	100.0
0°-180°	32684.0	100.0

Coefficient of Utilization



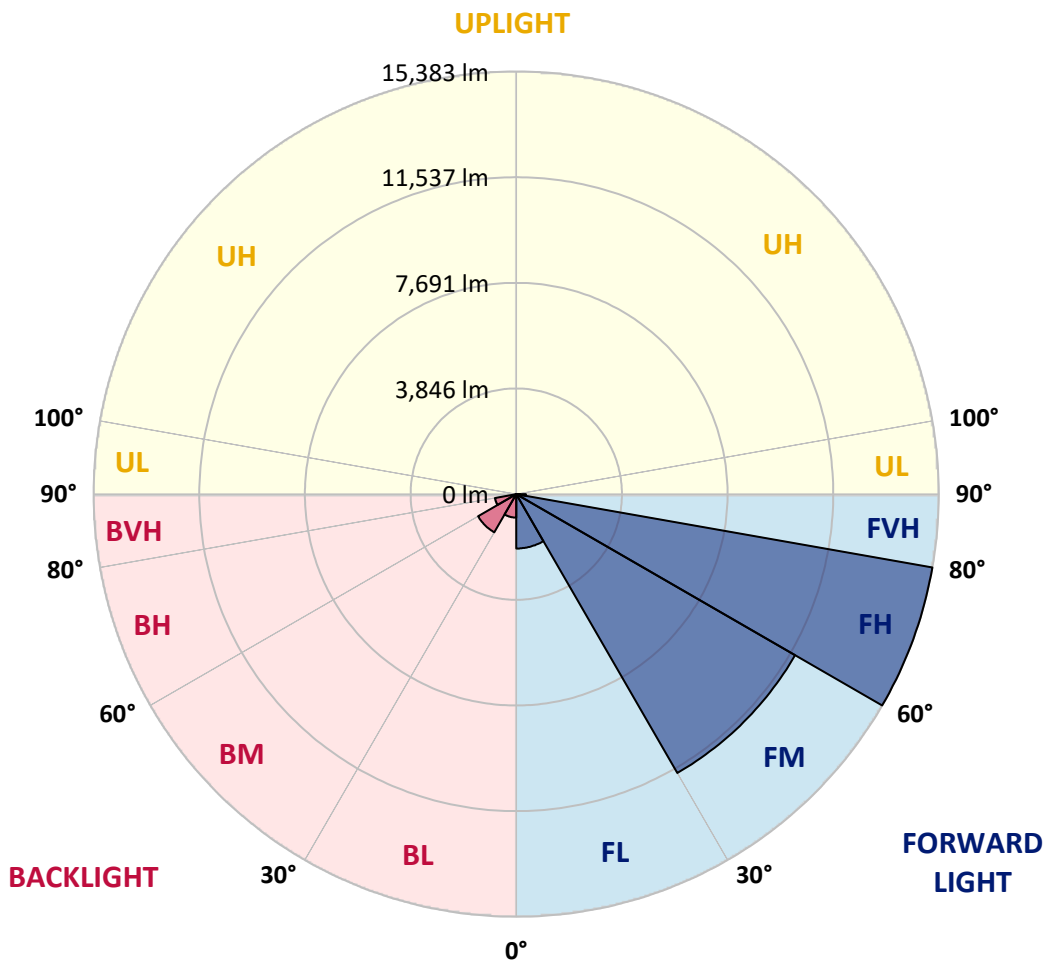
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.2	6.1			
FM (30°-60°)	11720.4	35.9			
FH (60°-80°)	15382.8	47.1			G5
FVH (80°-90°)	349.4	1.1			G3/500
BL (0°-30°)	854.4	2.6	B2/1000		
BM (30°-60°)	1605.6	4.9	B2/2500		
BH (60°-80°)	787.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.5	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°	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5
2.5°	3580.2	3556.7	3519.1	3504.9	3467.3	3448.5	3420.3	3406.1	3354.4	3302.6	3269.7
5°	4017.7	3961.3	3980.1	3923.6	3801.3	3702.5	3697.8	3589.6	3472.0	3377.9	3250.9
7.5°	4460.0	4412.9	4342.4	4262.4	4125.9	3980.1	3937.8	3834.3	3669.6	3504.9	3335.6
10°	4794.0	4761.1	4699.9	4587.0	4398.8	4234.2	4238.9	4064.8	3890.7	3702.5	3472.0
12.5°	5001.0	5015.1	4925.7	4812.8	4648.2	4441.2	4436.5	4318.8	4121.2	3923.6	3650.8
15°	5208.0	5259.8	5123.3	4991.6	4779.9	4629.3	4657.6	4516.4	4323.5	4097.7	3796.6
17.5°	5240.9	5255.1	5226.8	5033.9	4878.7	4751.7	4756.4	4662.3	4516.4	4271.8	4013.0
20°	5184.5	5175.1	5142.1	5001.0	4897.5	4822.2	4826.9	4803.4	4723.4	4525.8	4173.0
22.5°	5019.8	5019.8	4977.5	4883.4	4836.3	4906.9	4850.5	4939.8	4855.2	4737.5	4445.9
25°	4888.1	4939.8	4916.3	4855.2	4874.0	4968.1	4996.3	5081.0	5066.9	4921.0	4634.0
27.5°	5029.2	4968.1	4982.2	4911.6	4982.2	5123.3	5137.4	5198.6	5193.9	5076.3	4803.4
30°	5123.3	5179.8	5071.6	4916.3	4991.6	5231.5	5222.1	5302.1	5339.7	5198.6	4963.4
32.5°	5424.4	5377.4	5288.0	5081.0	5090.4	5226.8	5269.2	5372.7	5396.2	5311.5	5118.6
35°	6040.7	5970.2	5579.7	5269.2	5222.1	5288.0	5316.2	5518.5	5560.9	5466.8	5283.3
37.5°	6991.1	6831.1	6360.6	5673.8	5462.1	5447.9	5447.9	5716.1	5876.1	5659.7	5527.9
40°	8350.7	8124.9	7616.8	6421.8	5777.3	5833.7	5890.2	6036.0	6017.2	5876.1	5847.8
42.5°	10082.0	9907.9	9357.5	7677.9	6379.5	6097.2	6050.1	6247.7	6544.1	6487.7	6468.8
45°	11526.3	11535.7	11182.9	9399.8	7419.2	6704.1	6737.0	6887.6	7386.2	7343.9	7339.2
47.5°	12580.1	12448.4	12396.7	11060.6	8934.1	7856.7	7809.7	7913.2	8562.4	8830.6	8952.9
50°	13539.9	13450.5	13328.2	12674.2	10754.8	9301.0	9254.0	9263.4	10256.1	10632.4	10933.5
52.5°	14730.2	14843.1	14438.5	14038.6	13111.8	11178.2	11126.4	10942.9	12175.5	12693.1	13050.6
55°	16198.0	15986.3	15529.9	15736.9	15365.3	13205.9	13111.8	12895.4	14363.2	14579.6	14956.0
57.5°	16522.6	16362.7	16833.1	17567.0	17924.6	15586.4	15548.8	15158.3	16202.7	16005.1	17068.3
60°	17331.8	17374.1	18028.1	19486.5	20107.5	18333.9	18150.4	17463.5	17985.7	18023.4	19157.2
62.5°	18164.5	18065.7	19528.9	20930.8	21885.9	20935.5	20874.4	19510.0	20102.8	19623.0	21123.7
65°	17552.9	17703.5	19797.0	22144.6	24191.1	23480.7	23429.0	21481.3	21805.9	21208.4	21923.5
67.5°	15379.4	15073.6	18004.6	21589.5	25376.7	26148.3	26091.8	23631.3	22765.6	21199.0	20262.8
70°	11272.3	11008.8	13398.7	18282.1	23678.3	27512.6	27738.4	25127.4	22375.2	19223.1	15633.4
72.5°	5523.2	5527.9	7508.6	12396.7	18733.8	25075.6	25188.5	23038.5	19223.1	14170.3	8854.1
75°	1632.5	1651.3	2780.4	6078.4	12109.7	19044.3	19171.3	17487.1	13323.5	7320.4	3020.4
77.5°	597.5	597.5	922.1	2281.7	6040.7	12020.3	12010.9	10735.9	6746.4	2479.3	705.7
80°	310.5	324.6	479.9	931.5	2615.8	6261.8	6497.1	5255.1	2564.0	1044.4	207.0
82.5°	127.0	141.1	263.5	479.9	1256.1	2197.1	2404.1	2060.6	1115.0	729.2	94.1
85°	37.6	42.3	127.0	268.2	494.0	550.4	611.6	691.6	701.0	564.6	42.3
87.5°	4.7	4.7	51.8	89.4	108.2	117.6	136.4	136.4	357.6	395.2	23.5
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°	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5	3208.5
2.5°	3232.1	3208.5	3170.9	3086.2	3067.4	3006.2	3001.5	2945.1	2963.9	2926.3	2912.2
5°	3208.5	3156.8	3053.3	2987.4	2921.6	2879.2	2851.0	2827.5	2822.8	2804.0	2794.5
7.5°	3250.9	3180.3	3020.4	2916.9	2804.0	2766.3	2705.2	2700.4	2667.5	2634.6	2634.6
10°	3392.0	3265.0	3090.9	2916.9	2771.0	2648.7	2507.6	2404.1	2366.4	2281.7	2291.1
12.5°	3504.9	3392.0	3138.0	2959.2	2738.1	2460.5	2150.0	1910.1	1797.2	1689.0	1731.3
15°	3664.9	3500.2	3227.4	2968.6	2611.1	2131.2	1623.1	1354.9	1251.4	1227.9	1223.2
17.5°	3839.0	3664.9	3340.3	2945.1	2352.3	1646.6	1195.0	1039.7	1058.5	1086.8	1082.1
20°	4031.9	3820.1	3425.0	2865.1	1943.0	1195.0	978.6	973.9	1002.1	1044.4	1053.8
22.5°	4234.2	4050.7	3528.5	2625.2	1449.0	959.7	940.9	940.9	959.7	1011.5	1002.1
25°	4460.0	4215.3	3580.2	2253.5	1039.7	884.5	893.9	912.7	922.1	964.4	969.2
27.5°	4634.0	4398.8	3594.3	1806.6	846.8	818.6	842.1	865.6	879.8	912.7	926.8
30°	4794.0	4629.3	3519.1	1345.5	776.3	762.1	771.6	804.5	832.7	860.9	860.9
32.5°	4996.3	4761.1	3345.0	955.0	733.9	710.4	705.7	719.8	752.7	785.7	785.7
35°	5203.3	4982.2	3067.4	766.9	696.3	663.4	644.5	630.4	644.5	668.1	686.9
37.5°	5504.4	5316.2	2719.3	705.7	668.1	621.0	583.4	550.4	526.9	522.2	536.3
40°	5932.5	5692.6	2272.3	663.4	635.1	578.7	522.2	465.8	414.0	381.1	385.8
42.5°	6581.8	6247.7	1787.8	639.8	611.6	531.6	451.6	371.7	305.8	272.9	272.9
45°	7508.6	6981.6	1312.6	616.3	583.4	475.2	371.7	277.6	211.7	192.9	197.6
47.5°	8905.8	7866.1	940.9	578.7	545.7	414.0	291.7	197.6	155.3	145.8	150.5
50°	10731.2	8915.2	733.9	536.3	498.7	348.1	216.4	145.8	122.3	117.6	122.3
52.5°	12646.0	9973.8	644.5	498.7	428.1	277.6	160.0	117.6	103.5	98.8	103.5
55°	14283.2	10656.0	559.8	442.2	343.4	207.0	127.0	103.5	89.4	75.3	75.3
57.5°	15939.2	10999.4	442.2	367.0	254.0	155.3	108.2	89.4	75.3	61.2	56.5
60°	17284.8	11244.0	315.2	272.9	178.8	122.3	94.1	80.0	61.2	47.0	42.3
62.5°	18169.2	10543.0	230.5	207.0	131.7	103.5	80.0	65.9	47.0	32.9	32.9
65°	17731.7	9573.9	178.8	145.8	98.8	80.0	65.9	47.0	32.9	18.8	14.1
67.5°	15911.0	7800.3	145.8	108.2	75.3	61.2	51.8	37.6	18.8	4.7	4.7
70°	11869.7	5716.1	117.6	80.0	61.2	47.0	37.6	23.5	9.4	4.7	0.0
72.5°	6492.4	3128.6	94.1	65.9	47.0	37.6	28.2	18.8	9.4	0.0	0.0
75°	2145.3	832.7	70.6	47.0	28.2	23.5	18.8	14.1	4.7	0.0	0.0
77.5°	517.5	216.4	56.5	42.3	23.5	14.1	9.4	4.7	4.7	0.0	0.0
80°	160.0	89.4	42.3	28.2	18.8	14.1	4.7	0.0	0.0	0.0	0.0
82.5°	65.9	42.3	18.8	18.8	14.1	4.7	0.0	0.0	0.0	0.0	0.0
85°	32.9	23.5	14.1	9.4	9.4	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	23.5	9.4	4.7	4.7	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)