

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: P483415

Luminaire Tested: **IFLD-L-SA8D-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483415
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-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

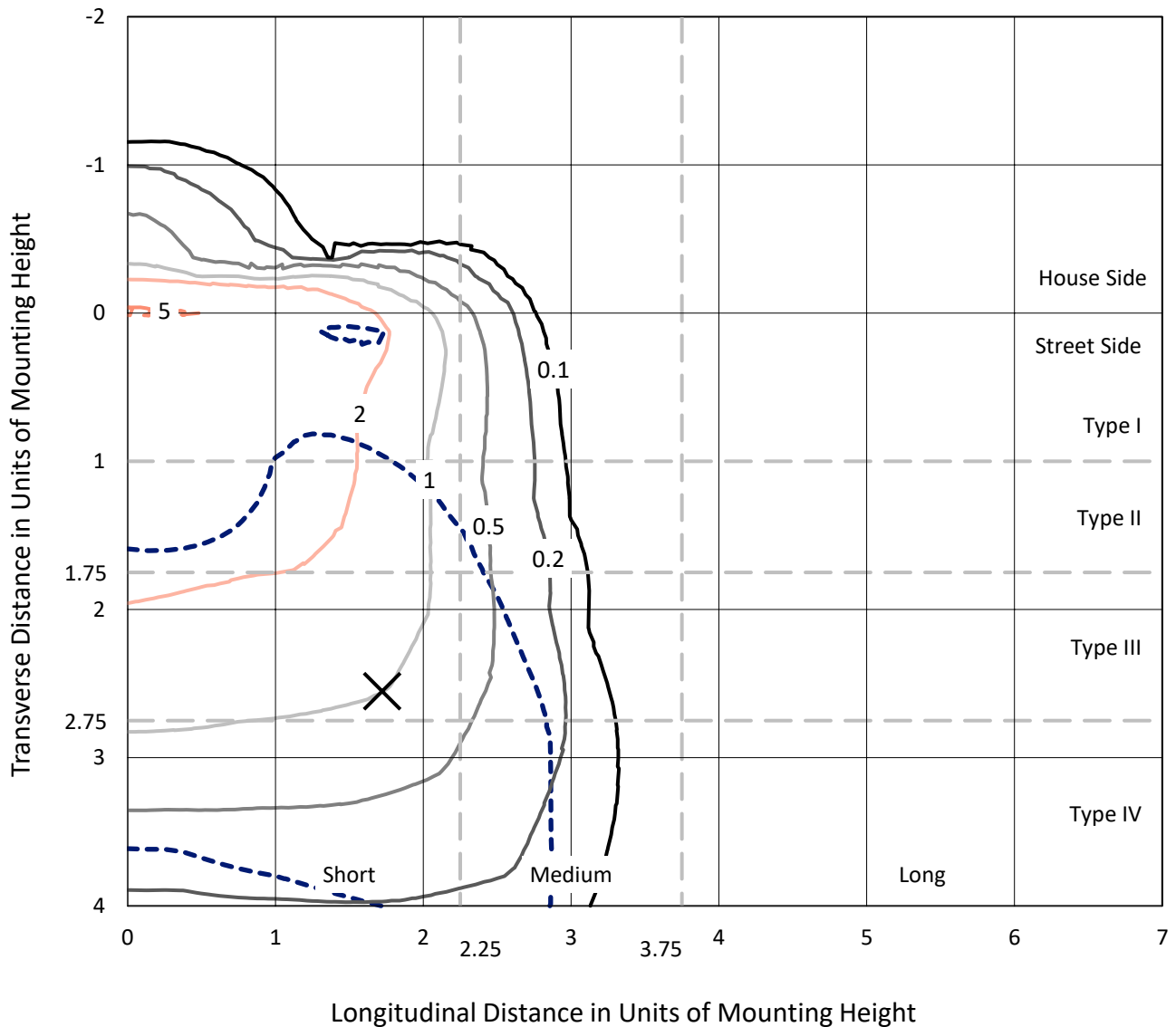
Lumens per Lamp: N/A
Luminaire Lumens: 32030.7 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

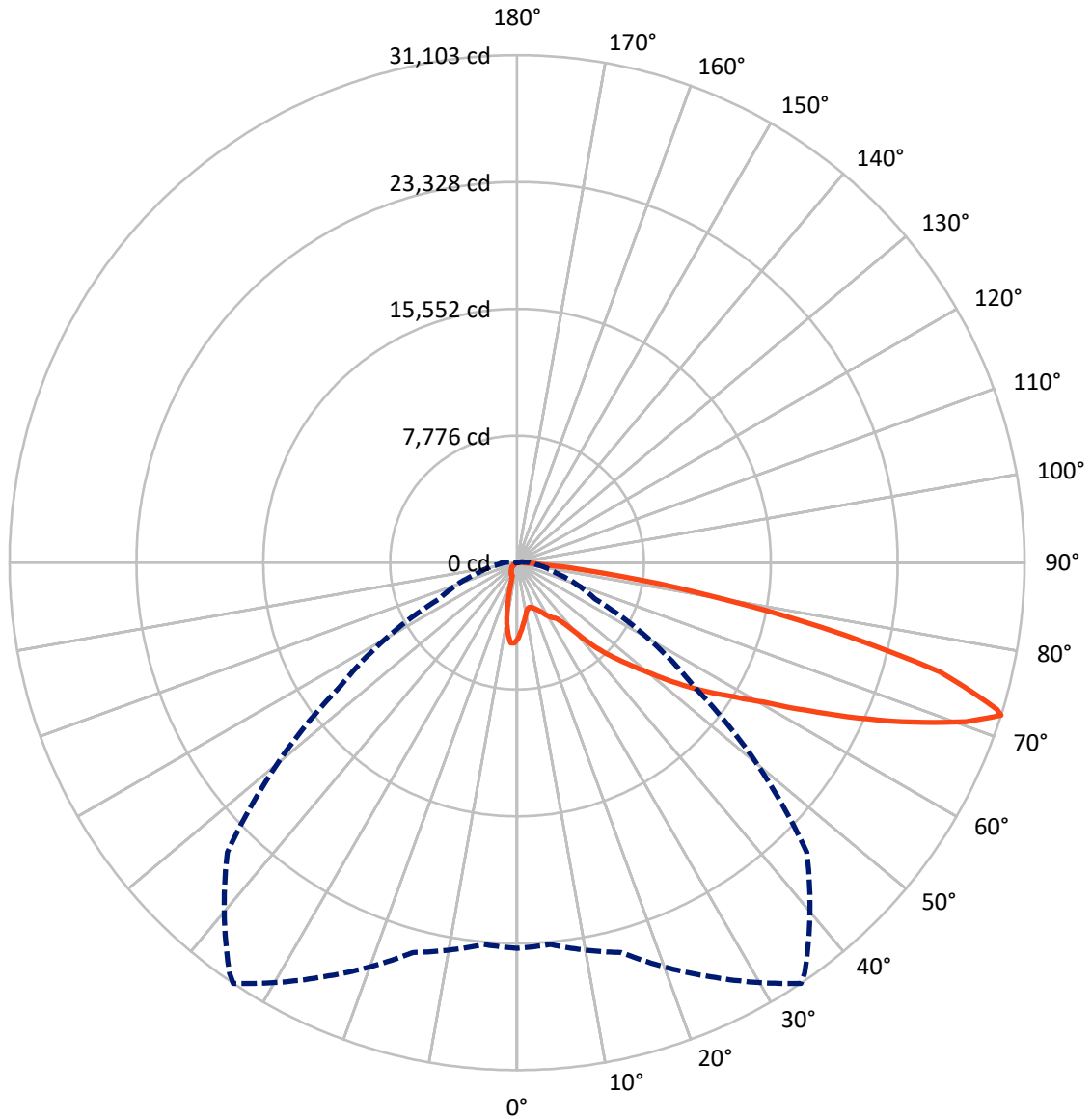
× Max cd
 - - - 1/2 Max cd



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 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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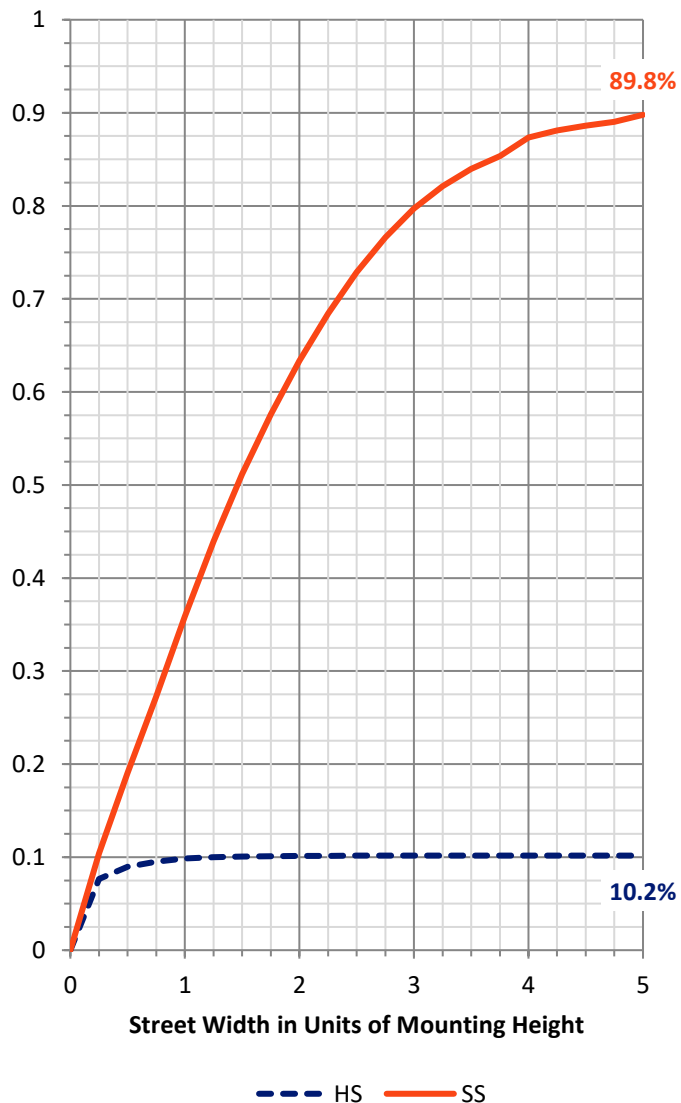
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3279.2	0.0	3279.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	28751.5	0.0	28751.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	32030.7	0.0	32030.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.8	1.3
10°-20°	921.0	2.9
20°-30°	1390.1	4.3
30°-40°	2255.9	7.0
40°-50°	4242.1	13.2
50°-60°	6935.9	21.7
60°-70°	9220.3	28.8
70°-80°	6174.8	19.3
80°-90°	483.9	1.5
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°	32030.7	100.0
0°-180°	32030.7	100.0

Coefficient of Utilization



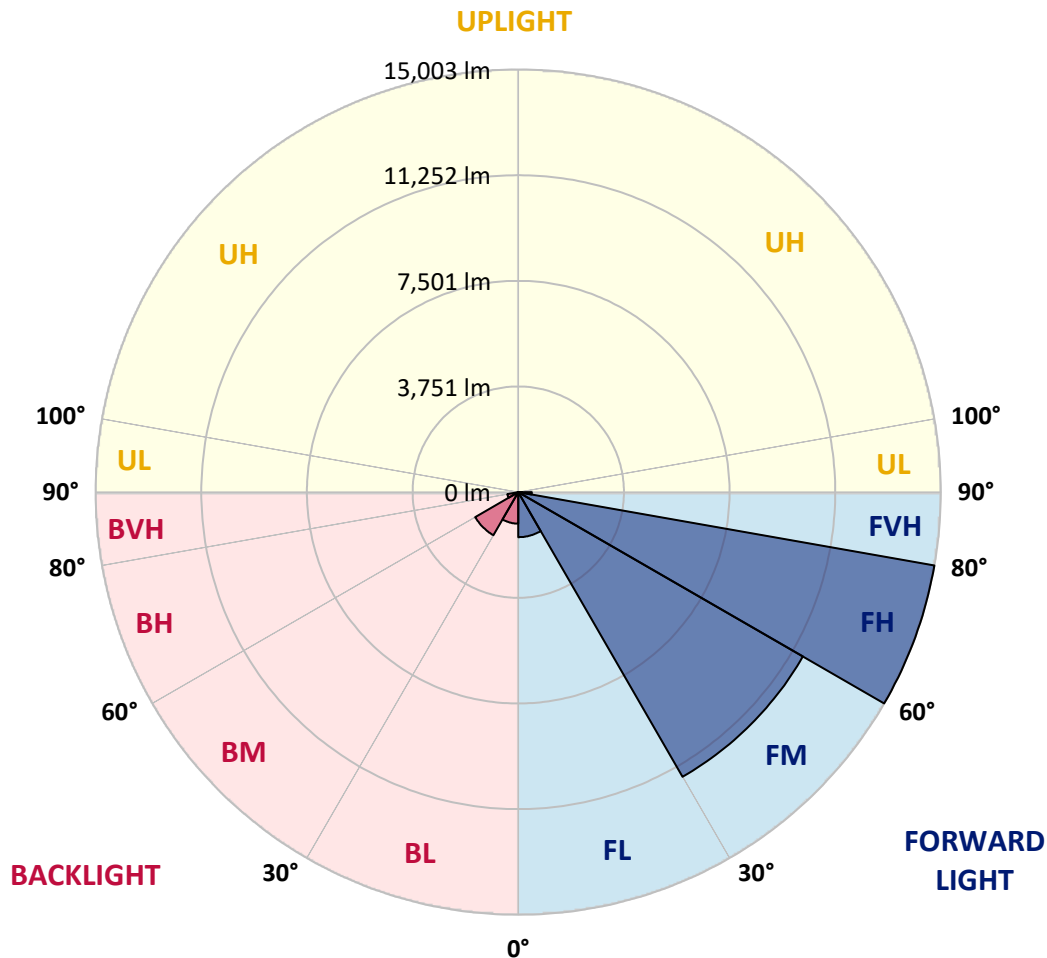
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.0	5.0			
FM (30°-60°)	11668.7	36.4			
FH (60°-80°)	15002.9	46.8			G5
FVH (80°-90°)	480.8	1.5			G3/500
BL (0°-30°)	1118.9	3.5	B3/2500		
BM (30°-60°)	1765.1	5.5	B2/2500		
BH (60°-80°)	392.1	1.2	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1
2.5°	4144.3	4135.1	4162.9	4209.2	4255.5	4236.9	4324.9	4417.5	4482.4	4570.3	4676.9
5°	3621.1	3644.2	3672.0	3764.6	3824.8	3838.7	4000.8	4121.2	4320.3	4524.0	4713.9
7.5°	3144.1	3171.9	3227.5	3329.4	3454.4	3486.8	3648.9	3889.7	4149.0	4417.5	4727.8
10°	2796.8	2824.6	2884.8	2949.7	3116.4	3116.4	3338.6	3672.0	4010.1	4324.9	4732.4
12.5°	2722.8	2736.7	2732.0	2783.0	2889.5	2912.6	3130.2	3496.1	3889.7	4292.5	4806.5
15°	2810.7	2820.0	2773.7	2745.9	2838.5	2861.7	3065.4	3389.6	3810.9	4311.0	4926.9
17.5°	2986.7	2954.3	2861.7	2820.0	2898.7	2912.6	3102.5	3384.9	3801.7	4362.0	5065.8
20°	3088.6	3125.6	2963.5	2884.8	2996.0	3014.5	3218.2	3459.0	3848.0	4450.0	5260.3
22.5°	3269.2	3287.7	3070.1	3019.1	3125.6	3125.6	3357.1	3607.2	3959.1	4593.5	5491.8
25°	3523.8	3500.7	3246.0	3195.1	3296.9	3338.6	3570.2	3843.4	4130.4	4727.8	5704.8
27.5°	3723.0	3736.9	3528.5	3394.2	3565.5	3593.3	3843.4	4098.0	4260.1	4838.9	5964.1
30°	4019.3	3991.5	3769.3	3616.5	3829.5	3834.1	4074.9	4338.8	4510.2	5038.0	6353.1
32.5°	4371.2	4315.7	4061.0	3843.4	4014.7	4056.4	4301.8	4686.1	4899.1	5413.1	6955.1
35°	5116.8	4982.5	4565.7	4227.7	4241.6	4260.1	4639.8	5190.8	5436.3	5890.1	7760.8
37.5°	6204.9	6149.4	5677.0	5033.4	4788.0	4732.4	5158.4	5857.6	6163.3	6519.8	8807.3
40°	7283.8	7205.1	6765.2	6279.0	5834.5	5723.4	5936.4	6742.1	7019.9	7395.0	9881.6
42.5°	8483.2	8344.2	7825.6	7432.0	7154.2	7033.8	6950.4	7853.4	8168.3	8423.0	10932.7
45°	9696.4	9469.5	8719.3	8418.3	8270.2	8205.3	8196.1	9251.8	9441.7	9492.6	12099.6
47.5°	10761.4	10516.0	9835.3	9497.2	9386.1	9367.6	9886.2	10863.3	10715.1	10580.8	13400.8
50°	11581.0	11423.6	10932.7	10812.3	10729.0	10696.6	11909.8	12521.0	11835.7	11599.5	14544.5
52.5°	12849.8	12497.8	11942.2	11983.9	12275.6	12280.2	13961.1	14095.4	12766.4	12298.7	15623.5
55°	13863.9	13632.3	13178.5	13118.3	13887.0	13970.4	15799.4	15290.1	13285.0	12965.5	16021.7
57.5°	15058.5	14952.0	14623.3	14632.5	15438.2	15614.2	17434.0	16299.5	13715.7	13396.2	16081.9
60°	16785.7	16480.1	16308.8	16387.5	17336.8	17508.1	19017.7	17026.5	13924.1	13678.6	15933.7
62.5°	18693.5	18337.0	18151.7	18554.6	19939.1	19966.9	20221.6	17670.2	13794.4	13752.7	14979.8
65°	20990.3	20638.3	20490.2	21300.5	22944.4	22842.5	21911.7	17943.4	13382.3	13007.2	12474.7
67.5°	23277.8	23064.7	22759.1	24051.1	26097.8	26097.8	23666.7	17841.5	12303.4	10441.9	8159.0
70°	24361.3	24509.5	24995.7	27023.9	29195.6	28973.3	25398.5	16670.0	9159.2	5607.6	3209.0
72°	23638.9	23486.1	24741.0	27996.3	31103.4	30737.6	25106.8	13252.6	5292.7	2458.8	1116.0
72.5°	22398.0	22541.5	24268.7	27862.0	30746.8	31047.8	24393.7	12224.6	4352.7	1958.7	842.8
75°	13734.2	13979.6	18114.7	23657.5	26792.3	26454.3	18869.5	5825.2	1671.6	833.5	301.0
77.5°	5014.9	5218.6	8788.8	14887.2	19054.7	18841.7	10918.8	2069.9	907.6	620.5	152.8
80°	1305.8	1412.3	2986.7	6867.1	11205.9	11219.8	4570.3	828.9	615.9	509.4	92.6
82.5°	259.3	287.1	916.8	2671.8	5237.1	5167.7	1444.7	444.5	463.1	416.7	64.8
85°	32.4	41.7	194.5	907.6	1694.8	1518.8	356.6	222.3	342.7	324.1	41.7
87.5°	4.6	4.6	46.3	208.4	356.6	347.3	74.1	69.5	152.8	199.1	23.2
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°	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1	4686.1
2.5°	4737.0	4755.6	4820.4	4876.0	4940.8	4959.3	4931.5	4977.8	4913.0	4950.1	4959.3
5°	4746.3	4852.8	4973.2	5051.9	5033.4	4987.1	4950.1	4825.0	4737.0	4704.6	4774.1
7.5°	4811.1	4931.5	5061.2	5061.2	4959.3	4718.5	4487.0	4264.7	4079.5	3986.9	4065.6
10°	4894.5	5019.5	5153.8	4977.8	4598.1	4158.2	3829.5	3412.7	3130.2	2982.1	2996.0
12.5°	5005.6	5181.6	5227.9	4820.4	4190.6	3537.7	2940.4	2361.6	2093.0	1880.0	1884.6
15°	5149.2	5320.5	5181.6	4477.7	3672.0	2708.9	1991.1	1440.1	1227.1	1116.0	1116.0
17.5°	5339.0	5468.7	5167.7	4162.9	2972.8	1852.2	1222.5	972.4	926.1	907.6	907.6
20°	5561.3	5658.5	5033.4	3672.0	2208.8	1190.1	898.3	870.5	875.2	865.9	865.9
22.5°	5811.3	5843.7	4880.6	3102.5	1495.7	879.8	838.1	842.8	847.4	838.1	842.8
25°	6075.3	5987.3	4658.3	2435.7	995.6	801.1	810.3	819.6	824.2	828.9	828.9
27.5°	6371.6	6195.7	4348.1	1782.8	777.9	754.8	782.6	810.3	815.0	815.0	810.3
30°	6806.9	6515.2	4047.1	1208.6	685.3	703.8	750.1	782.6	805.7	805.7	801.1
32.5°	7357.9	6848.6	3625.7	824.2	634.4	643.6	680.7	745.5	796.5	801.1	787.2
35°	8122.0	7251.4	3185.8	657.5	597.3	602.0	625.1	676.1	764.0	791.8	787.2
37.5°	8927.7	7709.9	2639.4	592.7	569.6	564.9	578.8	620.5	699.2	768.7	773.3
40°	9784.3	8191.4	2065.2	560.3	546.4	537.1	541.8	560.3	620.5	708.5	727.0
42.5°	10590.1	8626.7	1551.2	527.9	523.3	514.0	514.0	518.6	551.0	611.2	620.5
45°	11460.6	8983.3	1180.8	504.7	490.8	495.5	476.9	467.7	490.8	495.5	490.8
47.5°	12275.6	9339.8	944.6	476.9	463.1	463.1	439.9	421.4	421.4	379.7	375.1
50°	13039.6	9534.3	754.8	439.9	435.3	430.6	398.2	365.8	338.0	287.1	277.8
52.5°	13674.0	9525.0	583.4	393.6	407.5	393.6	342.7	296.4	254.7	208.4	199.1
55°	13863.9	9080.5	439.9	324.1	347.3	328.8	273.2	231.5	185.2	148.2	143.5
57.5°	13701.8	8404.4	333.4	250.0	268.6	250.0	208.4	171.3	129.7	101.9	92.6
60°	13160.0	7612.6	259.3	194.5	203.7	189.9	157.4	129.7	92.6	64.8	55.6
62.5°	12132.0	6621.7	199.1	152.8	148.2	148.2	120.4	97.2	64.8	37.0	32.4
65°	9955.7	5163.1	152.8	106.5	106.5	106.5	92.6	69.5	41.7	18.5	9.3
67.5°	6251.2	3005.2	125.0	83.3	78.7	78.7	64.8	46.3	23.2	4.6	0.0
70°	2352.3	1102.1	97.2	64.8	60.2	60.2	46.3	27.8	13.9	0.0	0.0
72°	810.3	421.4	78.7	46.3	46.3	41.7	32.4	23.2	9.3	0.0	0.0
72.5°	666.8	338.0	74.1	46.3	41.7	41.7	32.4	23.2	9.3	0.0	0.0
75°	240.8	138.9	50.9	32.4	27.8	27.8	23.2	13.9	4.6	0.0	0.0
77.5°	120.4	88.0	41.7	27.8	23.2	13.9	13.9	9.3	4.6	0.0	0.0
80°	74.1	55.6	23.2	18.5	13.9	9.3	4.6	4.6	0.0	0.0	0.0
82.5°	50.9	32.4	13.9	13.9	9.3	4.6	0.0	0.0	0.0	0.0	0.0
85°	32.4	13.9	9.3	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	9.3	4.6	0.0	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)