

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: P479196

Luminaire Tested: **IFLD-L-SA7B-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479196
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

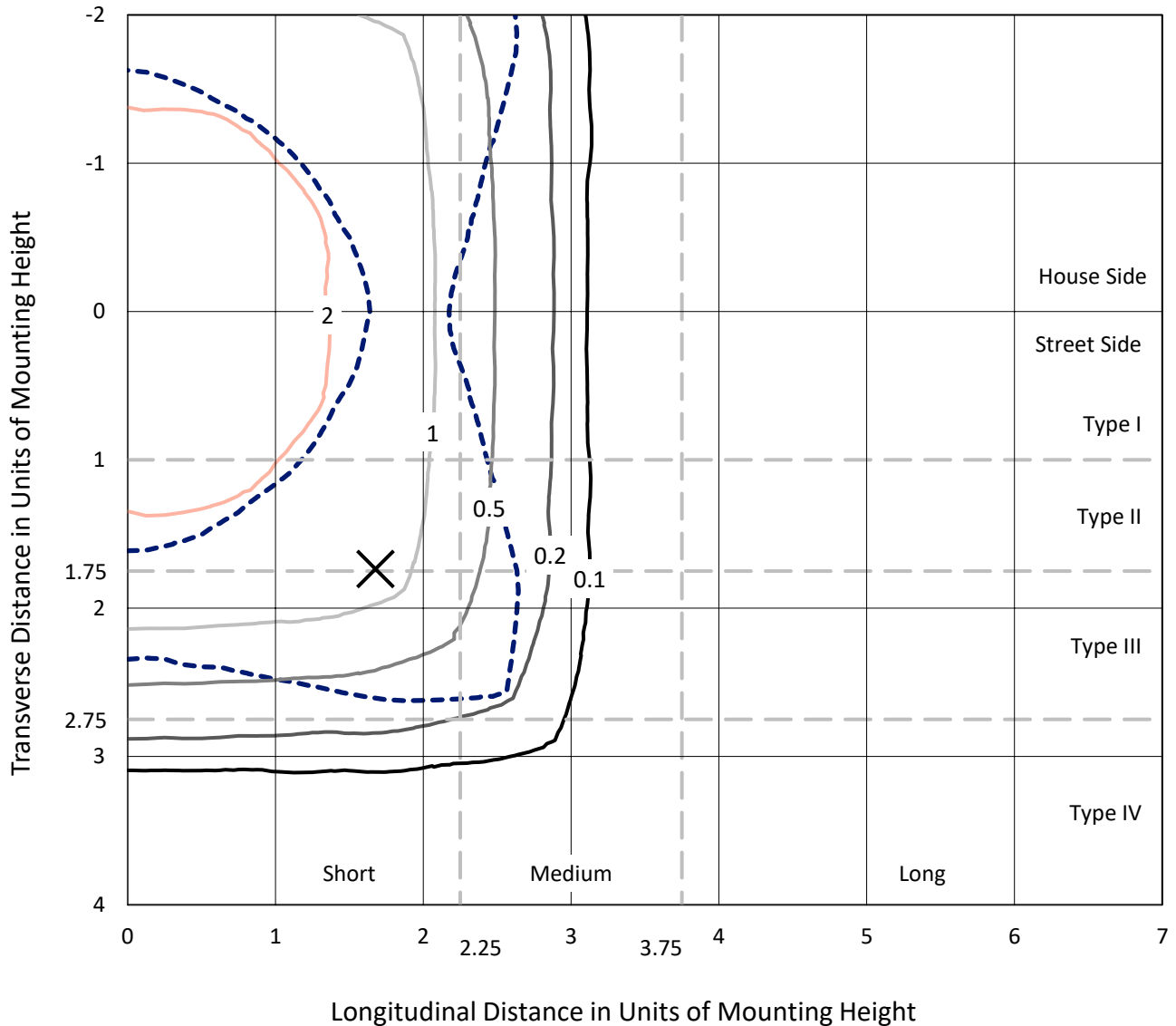
Lumens per Lamp: N/A
Luminaire Lumens: 26478.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 281
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

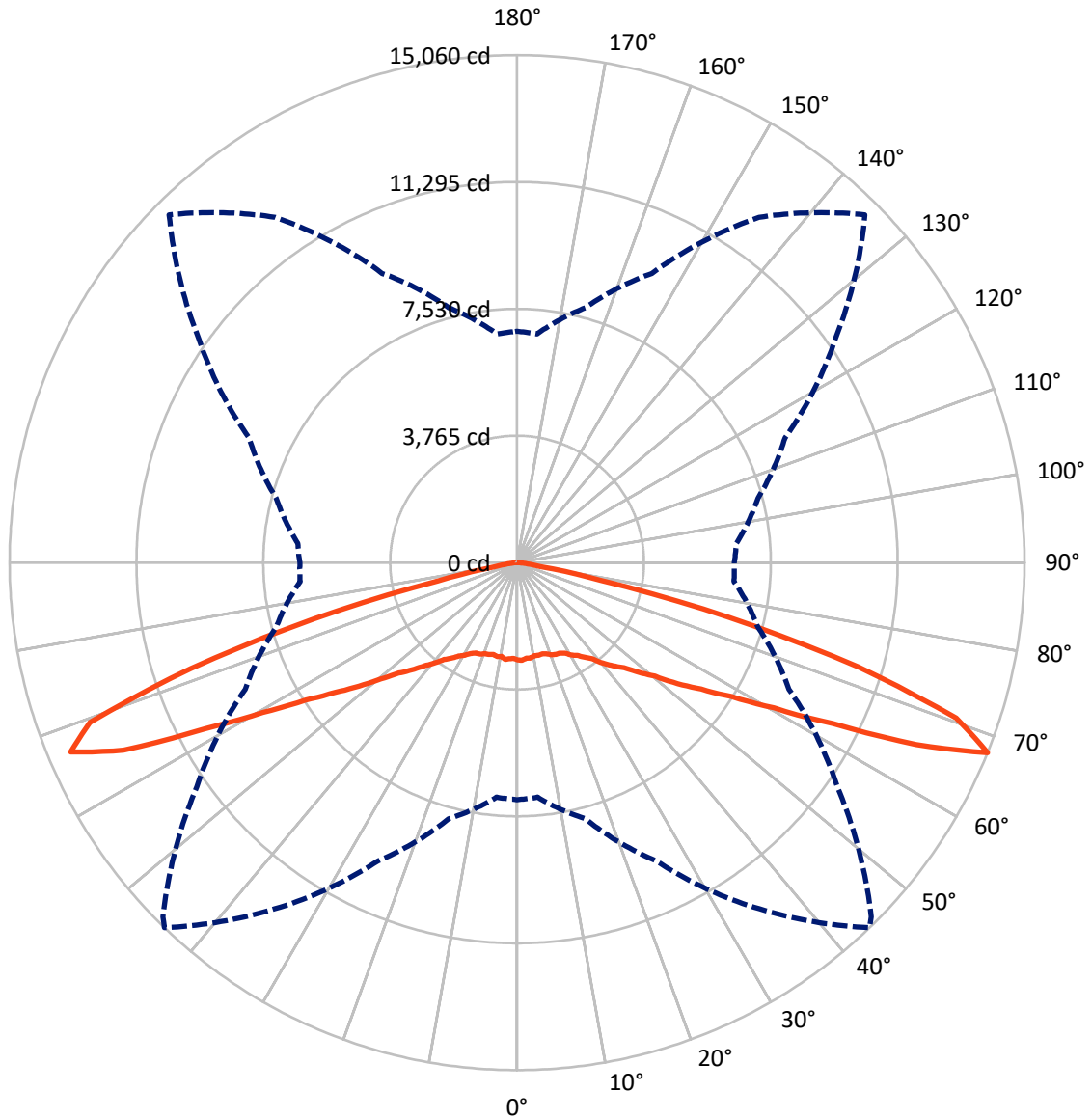
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13205.4	0.0	13205.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13273.2	0.0	13273.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	26478.7	0.0	26478.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	1.0
10°-20°	799.6	3.0
20°-30°	1359.8	5.1
30°-40°	2156.0	8.1
40°-50°	3515.5	13.3
50°-60°	6004.1	22.7
60°-70°	9132.1	34.5
70°-80°	3078.1	11.6
80°-90°	159.8	0.6
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°	26478.7	100.0
0°-180°	26478.7	100.0

Coefficient of Utilization



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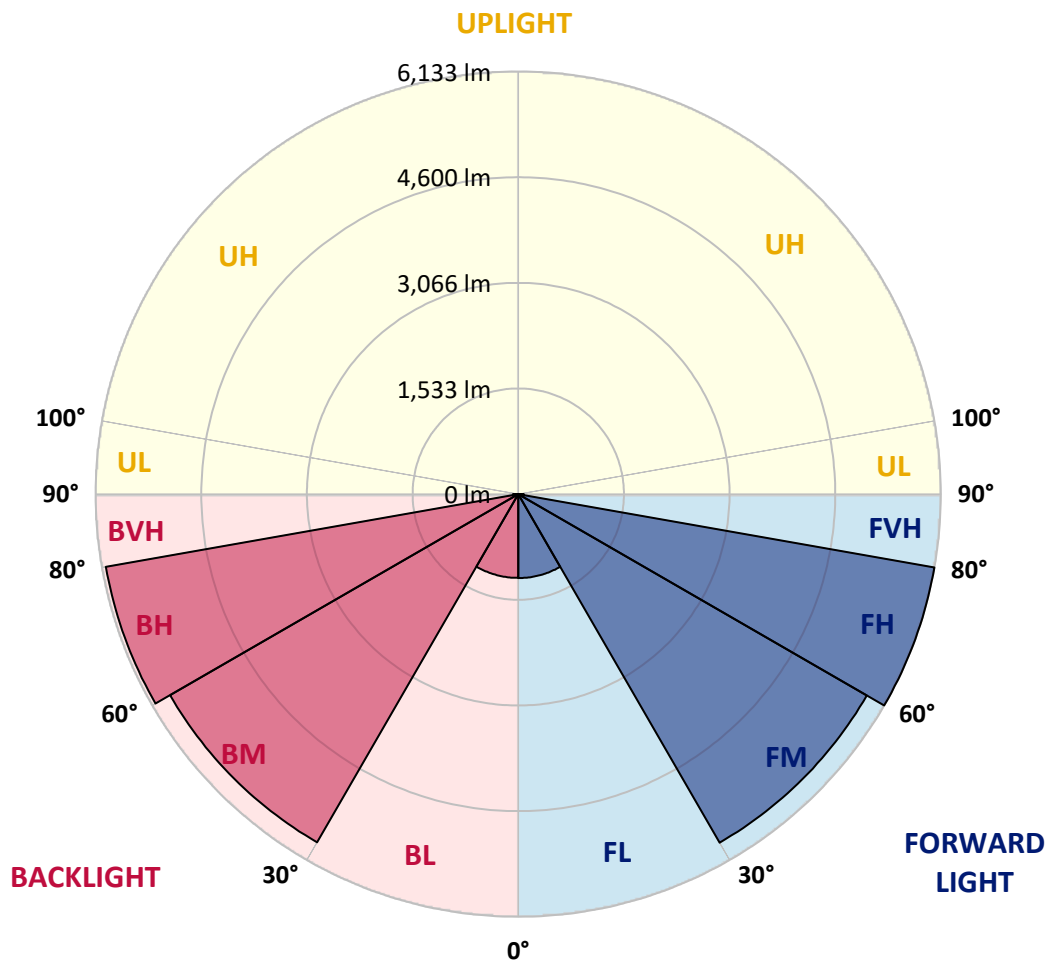
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.8	4.6			
FM (30°-60°)	5840.9	22.1			
FH (60°-80°)	6132.7	23.2			G3/7500
FVH (80°-90°)	81.8	0.3			G1/100
BL (0°-30°)	1215.3	4.6	B3/2500		
BM (30°-60°)	5834.6	22.0	B4/8500		
BH (60°-80°)	6077.4	23.0	B5		G3/7500
BVH (80°-90°)	78.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3
2.5°	2825.8	2859.1	2883.3	2880.2	2889.3	2898.4	2886.3	2904.4	2892.3	2913.5	2925.6
5°	2880.2	2871.2	2874.2	2856.1	2898.4	2850.0	2850.0	2874.2	2904.4	2868.2	2889.3
7.5°	2847.0	2841.0	2825.8	2853.0	2862.1	2862.1	2886.3	2841.0	2892.3	2904.4	2907.4
10°	2810.7	2777.5	2822.8	2850.0	2856.1	2807.7	2828.9	2841.0	2825.8	2841.0	2850.0
12.5°	2780.5	2798.6	2798.6	2798.6	2789.6	2822.8	2844.0	2841.0	2810.7	2837.9	2789.6
15°	2777.5	2768.4	2795.6	2819.8	2804.7	2810.7	2819.8	2847.0	2789.6	2801.7	2801.7
17.5°	2774.5	2786.6	2795.6	2792.6	2844.0	2844.0	2834.9	2816.8	2862.1	2837.9	2804.7
20°	2786.6	2777.5	2801.7	2810.7	2847.0	2919.5	2892.3	2877.2	2853.0	2822.8	2822.8
22.5°	2801.7	2795.6	2828.9	2868.2	2937.7	2955.8	2952.8	2934.6	2892.3	2856.1	2850.0
25°	2856.1	2801.7	2837.9	2913.5	2937.7	2973.9	2998.1	2973.9	2916.5	2925.6	2871.2
27.5°	2937.7	2928.6	2977.0	3028.3	3007.2	3040.4	3019.3	3037.4	3040.4	2995.1	2940.7
30°	3034.4	3007.2	3037.4	3137.1	3146.2	3182.5	3146.2	3097.9	3113.0	3073.7	3046.5
32.5°	3173.4	3164.3	3221.8	3288.3	3300.3	3282.2	3264.1	3291.3	3227.8	3197.6	3149.2
35°	3264.1	3303.4	3372.9	3424.3	3463.6	3445.4	3454.5	3427.3	3442.4	3378.9	3357.8
37.5°	3533.1	3518.0	3533.1	3620.7	3629.8	3620.7	3629.8	3660.0	3638.8	3584.4	3530.0
40°	3786.9	3762.8	3799.0	3898.8	3892.7	3922.9	3862.5	3895.7	3895.7	3793.0	3771.8
42.5°	3977.3	4058.9	4101.3	4182.9	4213.1	4185.9	4173.8	4179.8	4246.3	4125.4	4080.1
45°	4370.2	4367.2	4494.2	4539.5	4454.9	4448.8	4424.6	4497.2	4542.5	4473.0	4454.9
47.5°	4796.4	4817.5	4890.1	4908.2	4959.6	4865.9	4865.9	4875.0	5035.1	4871.9	4787.3
50°	5180.2	5207.4	5352.5	5494.5	5397.8	5298.1	5337.4	5385.7	5473.4	5319.2	5246.7
52.5°	5645.6	5793.7	5890.5	5966.0	6035.5	5966.0	5875.3	5929.7	6102.0	5896.5	5805.8
55°	6316.6	6434.5	6525.1	6664.2	6721.6	6627.9	6618.8	6612.8	6709.5	6491.9	6368.0
57.5°	7066.1	7017.8	7162.8	7377.4	7586.0	7495.3	7468.1	7474.1	7498.3	7190.0	7096.4
60°	7997.0	8051.4	8223.7	8411.1	8631.7	8758.6	8580.3	8477.5	8498.7	8078.6	7933.5
62.5°	8528.9	8649.8	9039.7	9683.4	10127.7	10523.6	10550.8	9882.9	9435.6	8619.6	8003.0
65°	8272.0	8253.9	8988.3	10179.1	11862.5	13014.0	12841.7	11221.8	9659.3	8362.7	7534.6
67.5°	7035.9	6987.5	7876.1	9765.0	12545.6	15060.1	14863.7	11599.6	8903.7	7398.6	6461.7
70°	4533.4	4521.4	5485.5	7443.9	11200.6	13827.0	13899.5	10535.7	7247.5	5419.0	4491.1
72.5°	1647.2	1746.9	2306.0	4001.5	7607.1	10578.0	10623.4	7800.5	4167.7	2505.5	1846.6
75°	607.5	625.6	728.4	1299.6	3466.6	6494.9	6664.2	3783.9	1480.9	816.0	664.9
77.5°	350.6	353.6	389.9	483.6	1027.6	2535.7	2638.5	1148.5	574.2	435.2	402.0
80°	238.8	235.7	275.0	314.3	411.0	719.3	764.6	480.5	362.7	302.2	253.9
82.5°	139.0	148.1	202.5	223.6	250.9	317.3	323.4	299.2	272.0	223.6	166.2
85°	84.6	69.5	111.8	123.9	145.1	142.0	142.0	163.2	175.3	157.2	93.7
87.5°	21.2	21.2	27.2	30.2	39.3	30.2	33.2	63.5	84.6	78.6	48.4
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°	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3	2892.3
2.5°	2898.4	2889.3	2895.4	2928.6	2907.4	2844.0	2859.1	2892.3	2865.1	2850.0	2847.0
5°	2886.3	2904.4	2883.3	2889.3	2910.5	2859.1	2868.2	2910.5	2892.3	2898.4	2865.1
7.5°	2889.3	2898.4	2880.2	2853.0	2853.0	2895.4	2871.2	2877.2	2850.0	2895.4	2834.9
10°	2871.2	2847.0	2825.8	2841.0	2834.9	2822.8	2813.8	2831.9	2804.7	2844.0	2801.7
12.5°	2816.8	2822.8	2816.8	2810.7	2822.8	2853.0	2804.7	2810.7	2768.4	2774.5	2795.6
15°	2795.6	2813.8	2807.7	2841.0	2856.1	2810.7	2847.0	2810.7	2777.5	2759.4	2792.6
17.5°	2804.7	2831.9	2822.8	2847.0	2819.8	2853.0	2859.1	2844.0	2804.7	2789.6	2804.7
20°	2813.8	2804.7	2816.8	2859.1	2898.4	2865.1	2865.1	2856.1	2819.8	2798.6	2798.6
22.5°	2834.9	2819.8	2837.9	2871.2	2883.3	2934.6	2889.3	2868.2	2807.7	2753.3	2804.7
25°	2877.2	2886.3	2898.4	2886.3	2952.8	2946.7	2940.7	2925.6	2831.9	2834.9	2825.8
27.5°	2958.8	2907.4	2922.6	2995.1	3004.2	3028.3	2998.1	3025.3	2925.6	2928.6	2868.2
30°	3058.6	3004.2	3052.5	3116.0	3113.0	3158.3	3143.2	3149.2	3079.7	3040.4	2958.8
32.5°	3167.4	3161.3	3191.5	3230.8	3245.9	3270.1	3267.1	3267.1	3224.8	3122.0	3137.1
35°	3288.3	3330.6	3366.8	3409.2	3415.2	3445.4	3403.1	3409.2	3366.8	3291.3	3315.5
37.5°	3527.0	3524.0	3563.3	3614.7	3620.7	3596.5	3629.8	3614.7	3557.2	3505.9	3466.6
40°	3805.1	3744.6	3780.9	3901.8	3910.9	3868.5	3865.5	3862.5	3820.2	3708.4	3684.2
42.5°	4046.9	4125.4	4119.4	4158.7	4131.5	4110.3	4185.9	4143.6	4110.3	3992.5	3971.3
45°	4358.2	4382.3	4460.9	4587.8	4457.9	4457.9	4509.3	4476.0	4457.9	4370.2	4288.6
47.5°	4745.0	4766.2	4923.3	4932.4	4847.8	4790.3	4950.5	4956.6	4881.0	4814.5	4714.8
50°	5198.3	5207.4	5349.5	5494.5	5400.8	5292.0	5455.2	5518.7	5349.5	5258.8	5134.9
52.5°	5697.0	5669.8	5787.7	6059.7	5969.0	5935.8	6111.1	6126.2	5896.5	5754.5	5787.7
55°	6271.3	6235.0	6555.4	6739.7	6682.3	6621.9	6700.4	6736.7	6552.3	6319.6	6401.2
57.5°	7014.8	7032.9	7193.1	7374.4	7468.1	7483.2	7519.5	7483.2	7295.8	7060.1	6984.5
60°	7758.2	7812.6	8123.9	8465.5	8495.7	8761.6	8713.3	8531.9	8266.0	7930.5	7945.6
62.5°	8033.3	7987.9	8489.6	9323.8	10034.0	10520.6	10306.0	9662.3	9045.7	8435.2	8480.6
65°	7480.2	7592.0	8275.0	9580.7	11122.1	13047.3	11904.8	10124.7	8879.5	8090.7	8003.0
67.5°	6446.6	6531.2	7398.6	8776.7	11511.9	14600.7	12509.3	9471.9	7830.8	6809.2	6863.6
70°	4491.1	4533.4	5382.7	7190.0	10439.0	13778.6	11285.3	7274.7	5406.9	4309.8	4370.2
72.5°	1807.3	1910.1	2469.2	4331.0	7706.9	10469.2	7598.1	3817.2	2242.5	1668.3	1514.2
75°	667.9	670.9	788.8	1490.0	3660.0	6579.5	3427.3	1227.1	716.3	586.3	559.1
77.5°	386.9	383.8	411.0	538.0	1060.8	2569.0	973.2	480.5	389.9	350.6	335.5
80°	241.8	238.8	281.1	356.6	465.4	704.2	411.0	299.2	262.9	226.7	226.7
82.5°	154.1	157.2	220.6	262.9	284.1	311.3	238.8	211.6	196.4	130.0	126.9
85°	99.7	90.7	154.1	175.3	157.2	139.0	133.0	111.8	102.8	63.5	69.5
87.5°	45.3	48.4	78.6	87.6	57.4	33.2	33.2	24.2	24.2	15.1	15.1
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)