

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: P479289

Luminaire Tested: **IFLD-S-SA3C-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479289
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

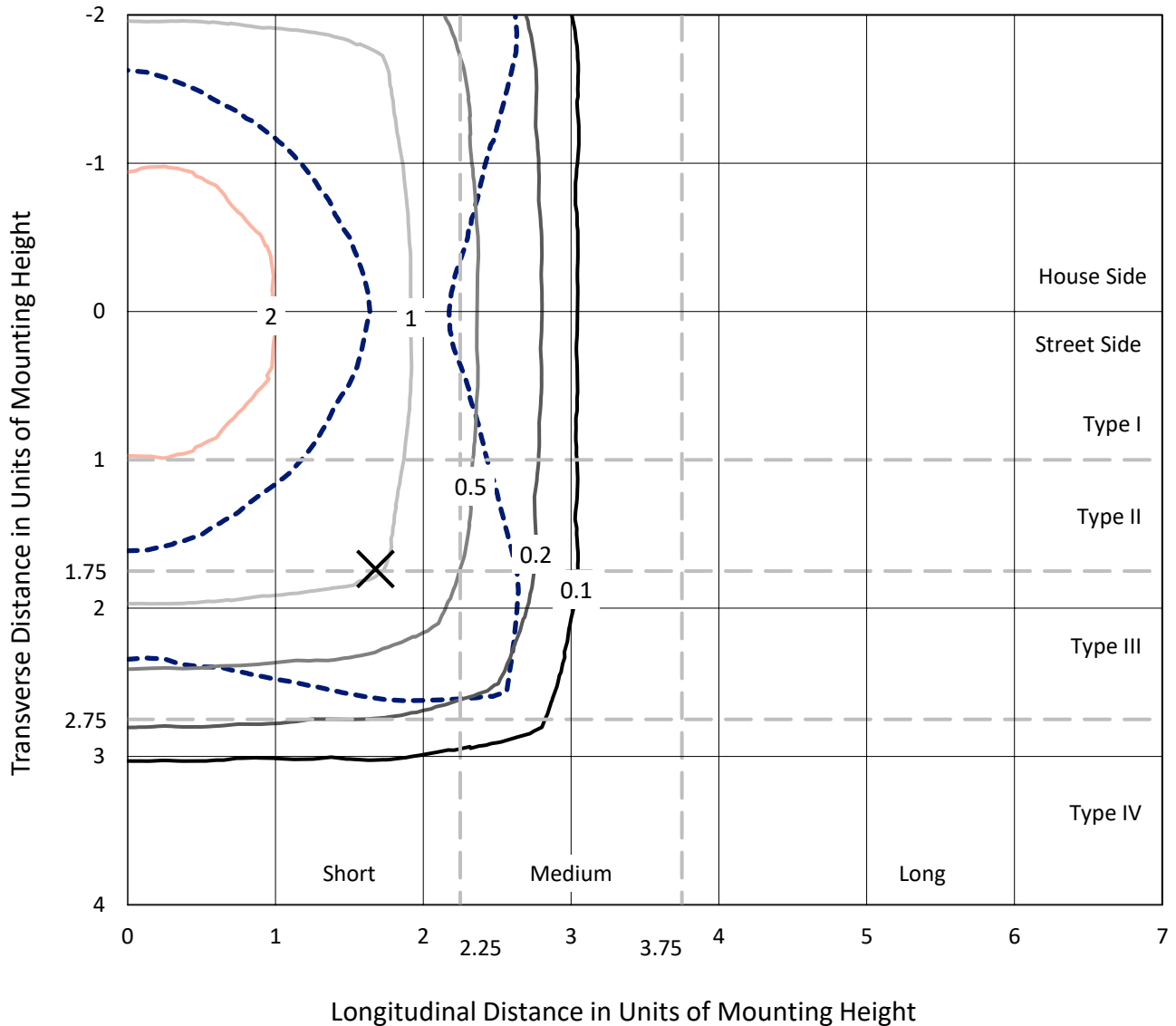
Lumens per Lamp: N/A
Luminaire Lumens: 21088.4 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8
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

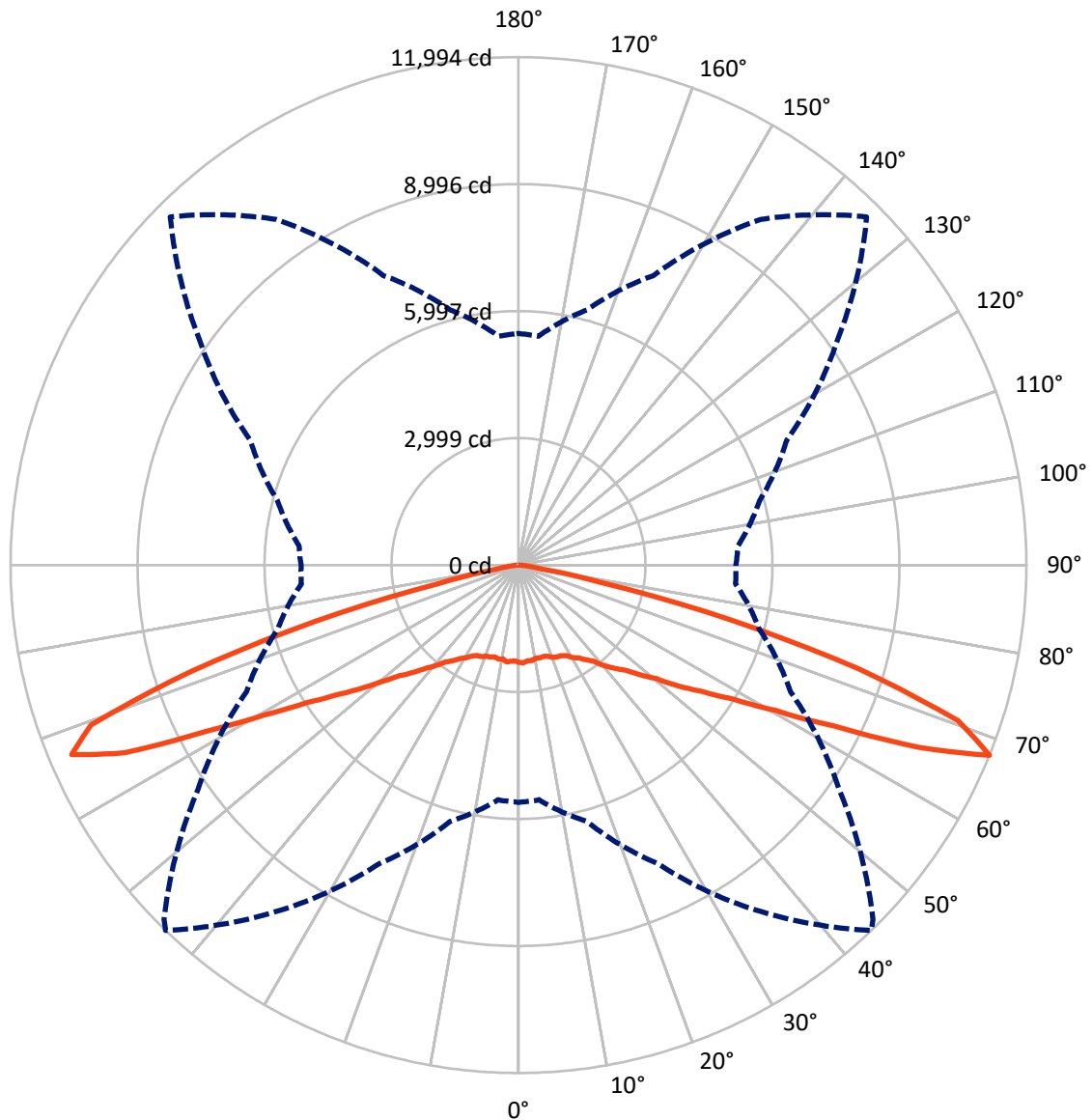
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	10517.2	0.0	10517.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10571.2	0.0	10571.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	21088.4	0.0	21088.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	1.0
10°-20°	636.8	3.0
20°-30°	1083.0	5.1
30°-40°	1717.1	8.1
40°-50°	2799.9	13.3
50°-60°	4781.8	22.7
60°-70°	7273.1	34.5
70°-80°	2451.5	11.6
80°-90°	127.3	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°	21088.4	100.0
0°-180°	21088.4	100.0

Coefficient of Utilization



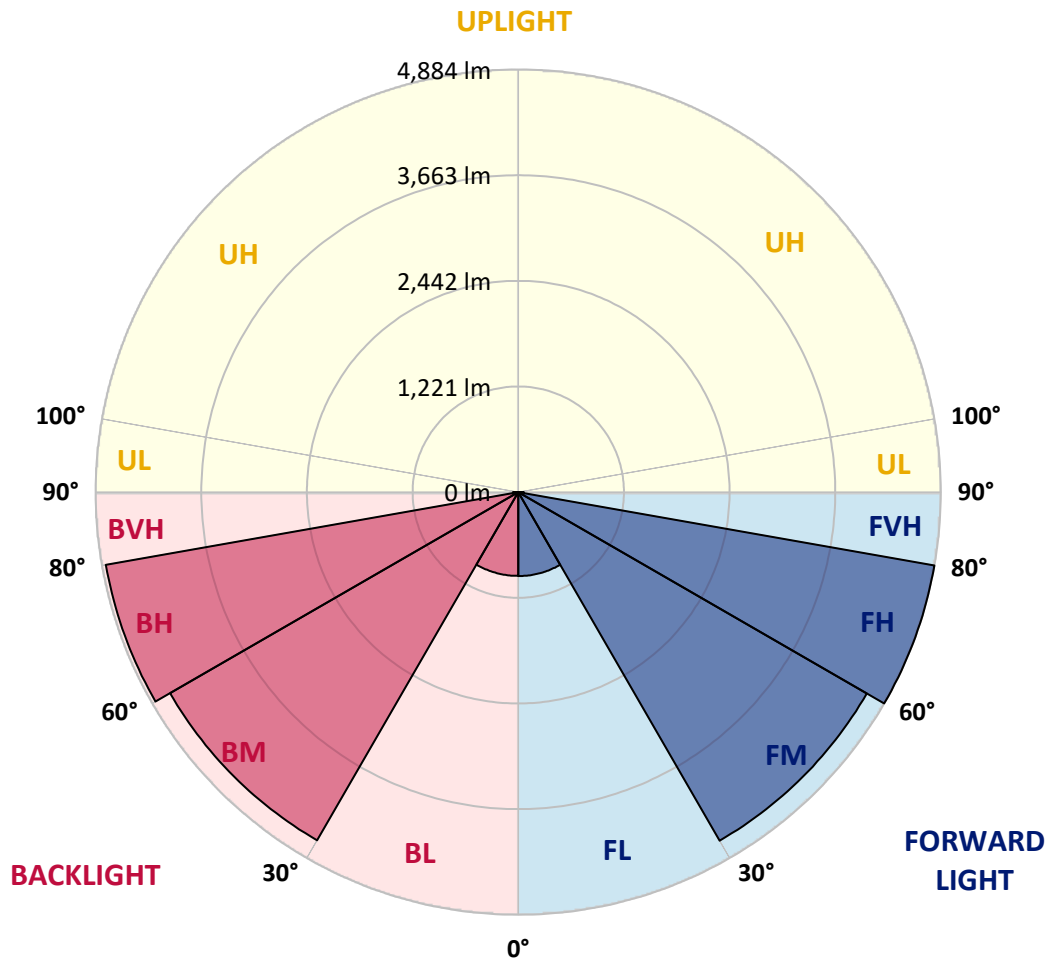
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.9	4.6			
FM (30°-60°)	4651.9	22.1			
FH (60°-80°)	4884.3	23.2			G2/5000
FVH (80°-90°)	65.1	0.3			G1/100
BL (0°-30°)	967.9	4.6	B2/1000		
BM (30°-60°)	4646.9	22.0	B3/5000		
BH (60°-80°)	4840.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	62.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5
2.5°	2250.6	2277.1	2296.3	2293.9	2301.1	2308.4	2298.7	2313.2	2303.5	2320.4	2330.0
5°	2293.9	2286.7	2289.1	2274.7	2308.4	2269.8	2269.8	2289.1	2313.2	2284.3	2301.1
7.5°	2267.4	2262.6	2250.6	2272.2	2279.5	2279.5	2298.7	2262.6	2303.5	2313.2	2315.6
10°	2238.5	2212.1	2248.2	2269.8	2274.7	2236.1	2253.0	2262.6	2250.6	2262.6	2269.8
12.5°	2214.5	2228.9	2228.9	2228.9	2221.7	2248.2	2265.0	2262.6	2238.5	2260.2	2221.7
15°	2212.1	2204.8	2226.5	2245.8	2233.7	2238.5	2245.8	2267.4	2221.7	2231.3	2231.3
17.5°	2209.7	2219.3	2226.5	2224.1	2265.0	2265.0	2257.8	2243.4	2279.5	2260.2	2233.7
20°	2219.3	2212.1	2231.3	2238.5	2267.4	2325.2	2303.5	2291.5	2272.2	2248.2	2248.2
22.5°	2231.3	2226.5	2253.0	2284.3	2339.6	2354.1	2351.7	2337.2	2303.5	2274.7	2269.8
25°	2274.7	2231.3	2260.2	2320.4	2339.6	2368.5	2387.8	2368.5	2322.8	2330.0	2286.7
27.5°	2339.6	2332.4	2370.9	2411.9	2395.0	2421.5	2404.6	2419.1	2421.5	2385.4	2342.1
30°	2416.7	2395.0	2419.1	2498.5	2505.7	2534.6	2505.7	2467.2	2479.3	2448.0	2426.3
32.5°	2527.4	2520.2	2565.9	2618.9	2628.5	2614.0	2599.6	2621.3	2570.7	2546.6	2508.1
35°	2599.6	2630.9	2686.3	2727.2	2758.5	2744.0	2751.2	2729.6	2741.6	2691.1	2674.2
37.5°	2813.8	2801.8	2813.8	2883.6	2890.9	2883.6	2890.9	2914.9	2898.1	2854.8	2811.4
40°	3016.0	2996.8	3025.7	3105.1	3100.3	3124.3	3076.2	3102.7	3102.7	3020.8	3004.0
42.5°	3167.7	3232.7	3266.4	3331.3	3355.4	3333.8	3324.1	3328.9	3381.9	3285.6	3249.5
45°	3480.6	3478.2	3579.3	3615.4	3548.0	3543.2	3523.9	3581.7	3617.8	3562.4	3548.0
47.5°	3820.0	3836.8	3894.6	3909.0	3950.0	3875.3	3875.3	3882.6	4010.1	3880.2	3812.8
50°	4125.7	4147.3	4262.9	4376.0	4299.0	4219.5	4250.8	4289.3	4359.2	4236.4	4178.6
52.5°	4496.4	4614.3	4691.3	4751.5	4806.9	4751.5	4679.3	4722.6	4859.8	4696.1	4623.9
55°	5030.7	5124.6	5196.8	5307.5	5353.3	5278.6	5271.4	5266.6	5343.6	5170.3	5071.6
57.5°	5627.7	5589.2	5704.7	5875.6	6041.7	5969.5	5947.8	5952.6	5971.9	5726.4	5651.7
60°	6369.0	6412.4	6549.6	6698.8	6874.5	6975.6	6833.6	6751.8	6768.6	6434.0	6318.5
62.5°	6792.7	6889.0	7199.5	7712.2	8066.0	8381.3	8403.0	7871.0	7514.8	6864.9	6373.8
65°	6588.1	6573.6	7158.5	8106.9	9447.6	10364.7	10227.5	8937.3	7692.9	6660.3	6000.8
67.5°	5603.6	5565.1	6272.8	7777.2	9991.6	11994.3	11837.8	9238.2	7091.1	5892.4	5146.3
70°	3610.6	3600.9	4368.8	5928.5	8920.5	11012.2	11070.0	8390.9	5772.1	4315.8	3576.9
72.5°	1311.8	1391.3	1836.6	3186.9	6058.5	8424.6	8460.8	6212.6	3319.3	1995.4	1470.7
75°	483.8	498.3	580.1	1035.0	2760.9	5172.7	5307.5	3013.6	1179.5	649.9	529.5
77.5°	279.2	281.6	310.5	385.1	818.4	2019.5	2101.3	914.7	457.3	346.6	320.1
80°	190.2	187.7	219.0	250.3	327.4	572.9	609.0	382.7	288.8	240.7	202.2
82.5°	110.7	117.9	161.3	178.1	199.8	252.7	257.6	238.3	216.6	178.1	132.4
85°	67.4	55.4	89.1	98.7	115.5	113.1	113.1	130.0	139.6	125.2	74.6
87.5°	16.8	16.8	21.7	24.1	31.3	24.1	26.5	50.5	67.4	62.6	38.5
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°	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5	2303.5
2.5°	2308.4	2301.1	2305.9	2332.4	2315.6	2265.0	2277.1	2303.5	2281.9	2269.8	2267.4
5°	2298.7	2313.2	2296.3	2301.1	2318.0	2277.1	2284.3	2318.0	2303.5	2308.4	2281.9
7.5°	2301.1	2308.4	2293.9	2272.2	2272.2	2305.9	2286.7	2291.5	2269.8	2305.9	2257.8
10°	2286.7	2267.4	2250.6	2262.6	2257.8	2248.2	2241.0	2255.4	2233.7	2265.0	2231.3
12.5°	2243.4	2248.2	2243.4	2238.5	2248.2	2272.2	2233.7	2238.5	2204.8	2209.7	2226.5
15°	2226.5	2241.0	2236.1	2262.6	2274.7	2238.5	2267.4	2238.5	2212.1	2197.6	2224.1
17.5°	2233.7	2255.4	2248.2	2267.4	2245.8	2272.2	2277.1	2265.0	2233.7	2221.7	2233.7
20°	2241.0	2233.7	2243.4	2277.1	2308.4	2281.9	2281.9	2274.7	2245.8	2228.9	2228.9
22.5°	2257.8	2245.8	2260.2	2286.7	2296.3	2337.2	2301.1	2284.3	2236.1	2192.8	2233.7
25°	2291.5	2298.7	2308.4	2298.7	2351.7	2346.9	2342.1	2330.0	2255.4	2257.8	2250.6
27.5°	2356.5	2315.6	2327.6	2385.4	2392.6	2411.9	2387.8	2409.4	2330.0	2332.4	2284.3
30°	2435.9	2392.6	2431.1	2481.7	2479.3	2515.4	2503.3	2508.1	2452.8	2421.5	2356.5
32.5°	2522.6	2517.8	2541.8	2573.1	2585.2	2604.4	2602.0	2602.0	2568.3	2486.5	2498.5
35°	2618.9	2652.6	2681.4	2715.1	2720.0	2744.0	2710.3	2715.1	2681.4	2621.3	2640.5
37.5°	2809.0	2806.6	2837.9	2878.8	2883.6	2864.4	2890.9	2878.8	2833.1	2792.2	2760.9
40°	3030.5	2982.3	3011.2	3107.5	3114.7	3081.0	3078.6	3076.2	3042.5	2953.4	2934.2
42.5°	3223.0	3285.6	3280.8	3312.1	3290.4	3273.6	3333.8	3300.1	3273.6	3179.7	3162.9
45°	3471.0	3490.2	3552.8	3653.9	3550.4	3550.4	3591.3	3564.8	3550.4	3480.6	3415.6
47.5°	3779.1	3795.9	3921.1	3928.3	3860.9	3815.2	3942.7	3947.5	3887.4	3834.4	3755.0
50°	4140.1	4147.3	4260.5	4376.0	4301.4	4214.7	4344.7	4395.3	4260.5	4188.3	4089.6
52.5°	4537.3	4515.6	4609.5	4826.1	4753.9	4727.4	4867.0	4879.1	4696.1	4583.0	4609.5
55°	4994.6	4965.7	5220.9	5367.7	5322.0	5273.8	5336.4	5365.3	5218.5	5033.1	5098.1
57.5°	5586.7	5601.2	5728.8	5873.2	5947.8	5959.8	5988.7	5959.8	5810.6	5622.8	5562.7
60°	6178.9	6222.2	6470.1	6742.1	6766.2	6978.0	6939.5	6795.1	6583.3	6316.1	6328.1
62.5°	6397.9	6361.8	6761.4	7425.7	7991.4	8378.9	8208.0	7695.3	7204.3	6718.1	6754.2
65°	5957.4	6046.5	6590.5	7630.3	8857.9	10391.2	9481.3	8063.6	7071.9	6443.6	6373.8
67.5°	5134.2	5201.6	5892.4	6990.0	9168.4	11628.4	9962.7	7543.7	6236.6	5423.1	5466.4
70°	3576.9	3610.6	4286.9	5726.4	8313.9	10973.7	8987.9	5793.7	4306.2	3432.4	3480.6
72.5°	1439.4	1521.3	1966.6	3449.3	6138.0	8338.0	6051.3	3040.1	1786.0	1328.7	1205.9
75°	532.0	534.4	628.2	1186.7	2914.9	5240.1	2729.6	977.3	570.5	467.0	445.3
77.5°	308.1	305.7	327.4	428.5	844.9	2046.0	775.1	382.7	310.5	279.2	267.2
80°	192.6	190.2	223.9	284.0	370.7	560.8	327.4	238.3	209.4	180.5	180.5
82.5°	122.8	125.2	175.7	209.4	226.3	247.9	190.2	168.5	156.5	103.5	101.1
85°	79.4	72.2	122.8	139.6	125.2	110.7	105.9	89.1	81.8	50.5	55.4
87.5°	36.1	38.5	62.6	69.8	45.7	26.5	26.5	19.3	19.3	12.0	12.0
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)