

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: P478724

Luminaire Tested: **IFLD-M-SA4C-830-U-T4W**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478724
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

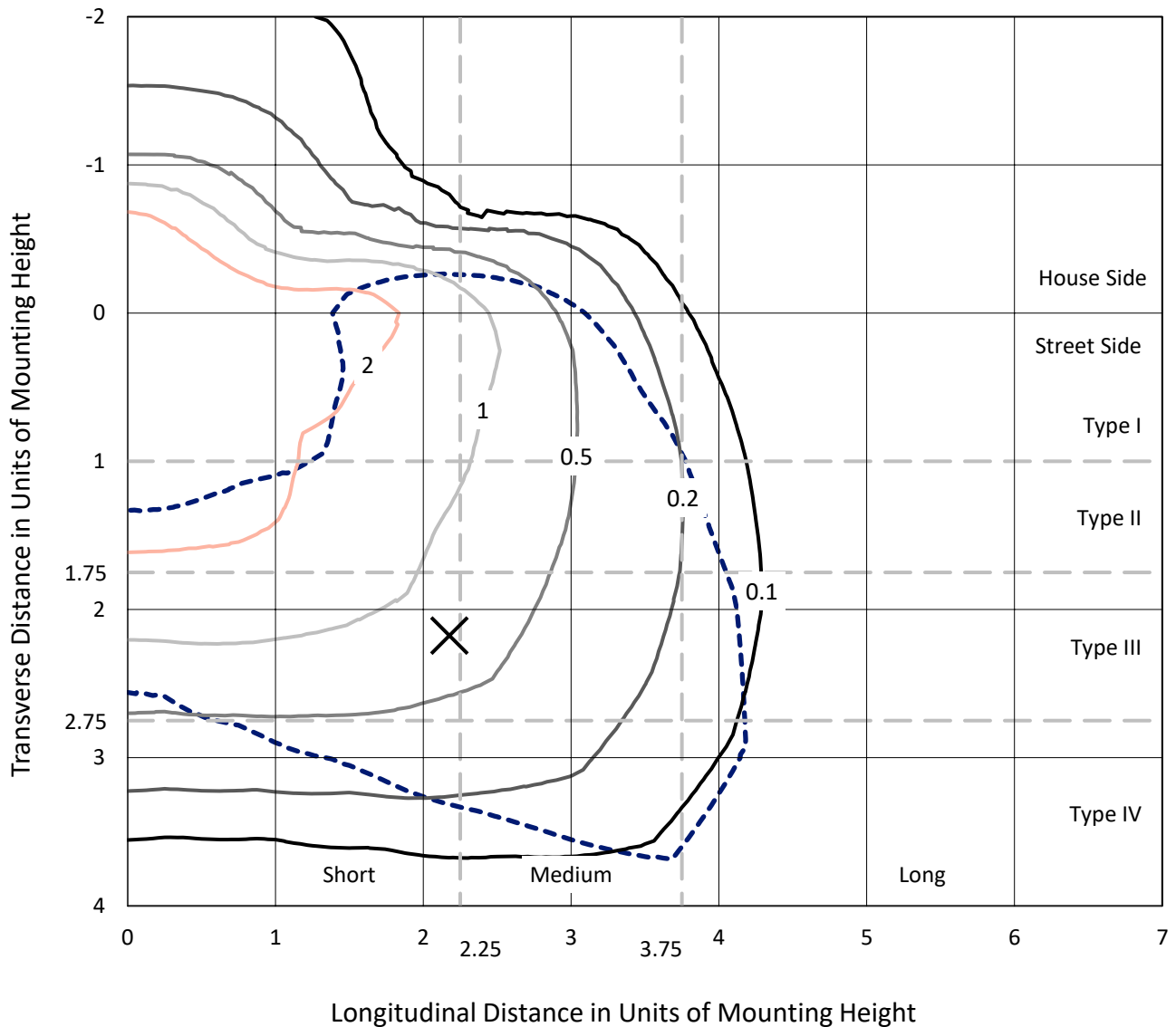
Lumens per Lamp: N/A
Luminaire Lumens: 22835.3 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

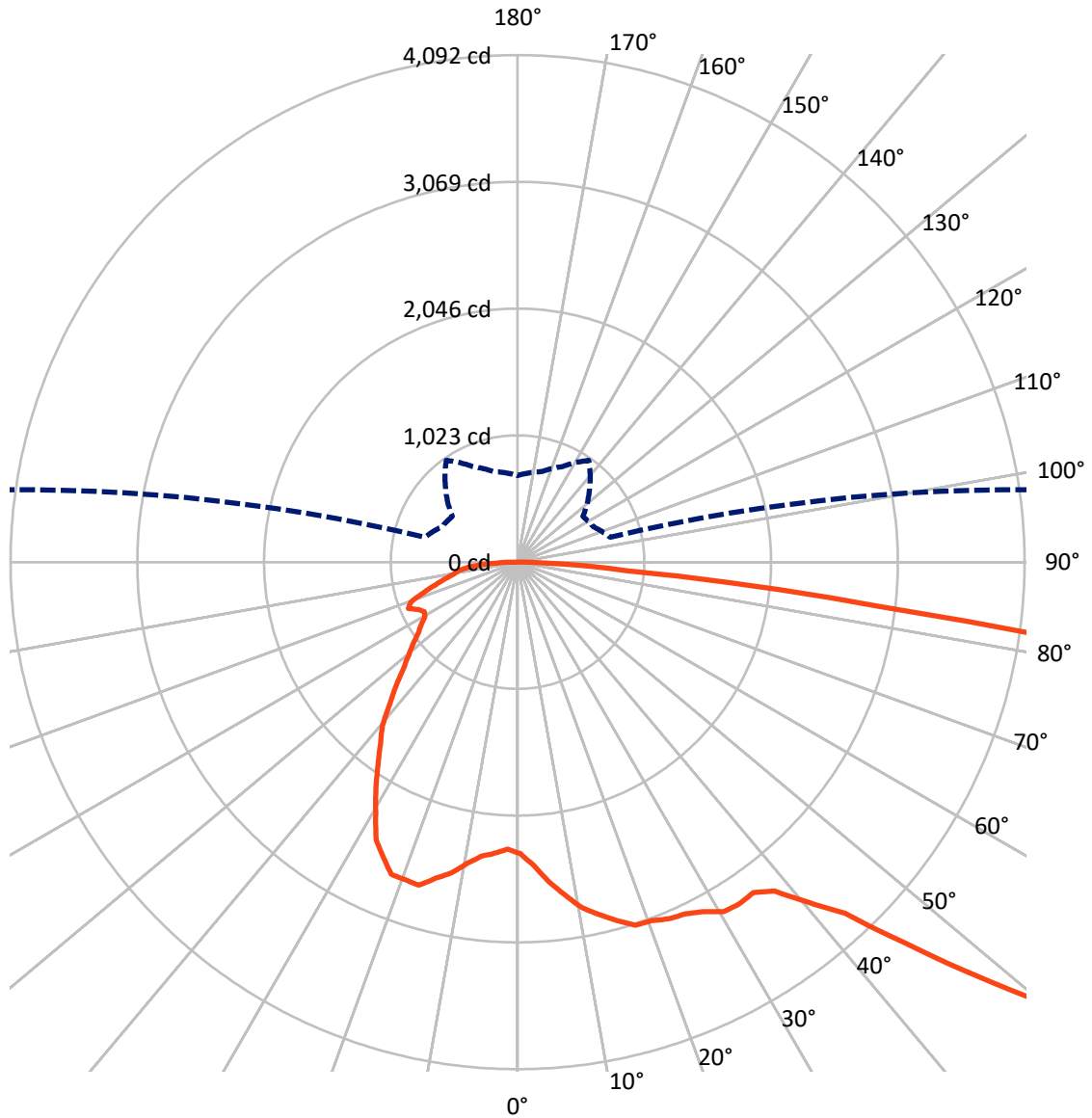
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5083.3	0.0	5083.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	17752.1	0.0	17752.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	22835.3	0.0	22835.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	1.1
10°-20°	800.6	3.5
20°-30°	1352.0	5.9
30°-40°	1871.0	8.2
40°-50°	2676.2	11.7
50°-60°	4316.5	18.9
60°-70°	6366.2	27.9
70°-80°	4622.9	20.2
80°-90°	589.3	2.6
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°	22835.3	100.0
0°-180°	22835.3	100.0

Coefficient of Utilization



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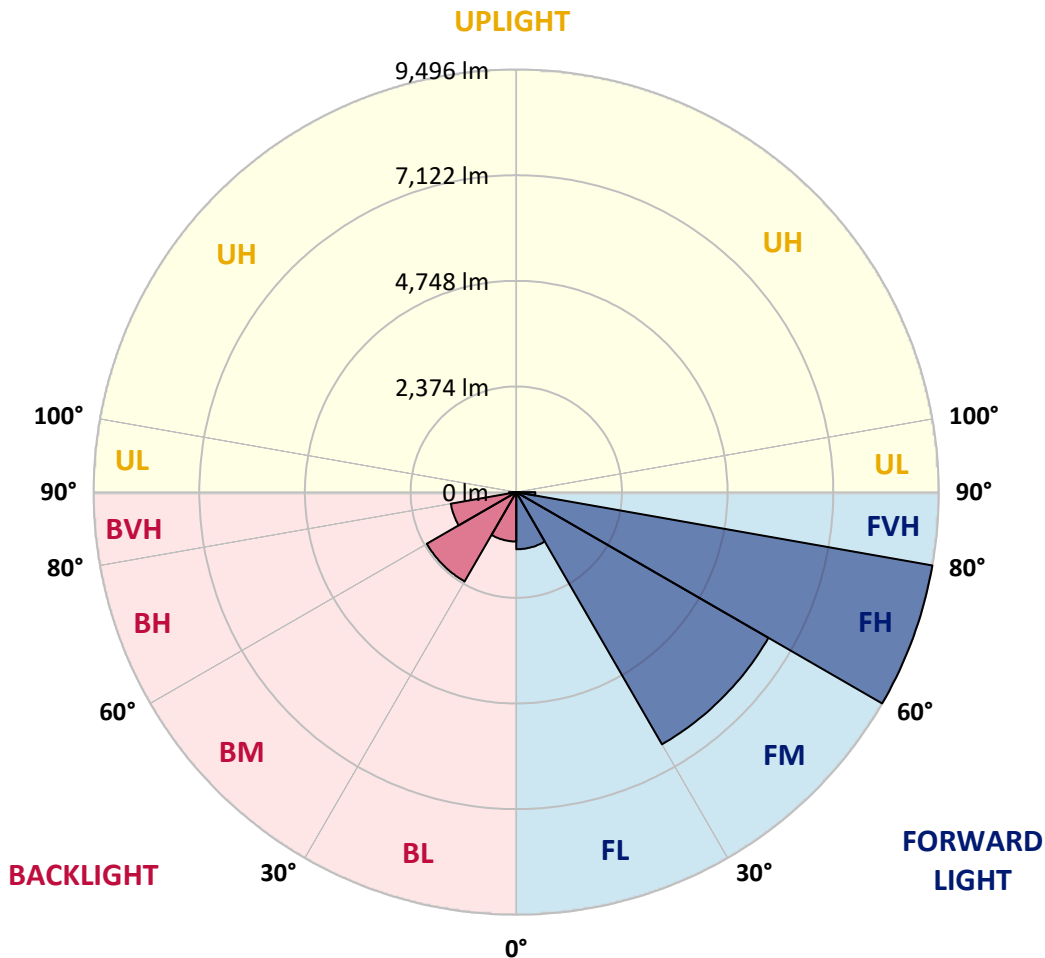
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1283.4	5.6			
FM (30°-60°)	6543.8	28.7			
FH (60°-80°)	9496.0	41.6			G4/12000
FVH (80°-90°)	428.9	1.9			G3/500
BL (0°-30°)	1109.9	4.9	B3/2500		
BM (30°-60°)	2319.9	10.2	B2/2500		
BH (60°-80°)	1493.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	160.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6
2.5°	2477.2	2492.0	2477.2	2474.7	2450.1	2432.9	2447.7	2425.5	2400.9	2391.0	2368.9
5°	2703.8	2706.2	2679.1	2681.6	2629.9	2575.7	2585.6	2519.1	2447.7	2420.6	2376.3
7.5°	2935.2	2908.1	2868.7	2856.4	2775.2	2716.1	2708.7	2649.6	2538.8	2477.2	2415.7
10°	3085.4	3095.3	3031.3	2977.1	2908.1	2836.7	2834.3	2723.5	2659.4	2568.3	2489.5
12.5°	3218.4	3220.9	3166.7	3080.5	2994.3	2905.7	2918.0	2868.7	2760.4	2674.2	2595.4
15°	3321.8	3307.1	3248.0	3169.2	3078.0	3009.1	3001.7	2959.8	2868.7	2797.3	2666.8
17.5°	3351.4	3344.0	3284.9	3201.2	3112.5	3060.8	3080.5	3011.6	2974.6	2910.6	2785.0
20°	3294.7	3277.5	3267.7	3174.1	3110.1	3105.1	3087.9	3102.7	3041.1	2982.0	2890.9
22.5°	3191.3	3183.9	3179.0	3105.1	3075.6	3097.7	3127.3	3149.5	3139.6	3083.0	2979.5
25°	3085.4	3119.9	3087.9	3053.4	3095.3	3151.9	3144.5	3215.9	3215.9	3198.7	3112.5
27.5°	3159.3	3137.1	3112.5	3095.3	3110.1	3198.7	3193.8	3280.0	3312.0	3280.0	3181.5
30°	3344.0	3321.8	3250.4	3174.1	3154.4	3250.4	3275.0	3351.4	3366.2	3287.4	3203.6
32.5°	3691.2	3678.9	3565.6	3341.5	3220.9	3275.0	3287.4	3373.5	3361.2	3312.0	3277.5
35°	4205.8	4164.0	4006.4	3627.2	3361.2	3307.1	3275.0	3344.0	3390.8	3366.2	3334.1
37.5°	4769.7	4723.0	4528.4	4048.2	3614.9	3393.2	3368.6	3425.3	3479.4	3467.1	3400.6
40°	5309.0	5309.0	5134.2	4575.2	3991.6	3602.5	3607.5	3543.4	3592.7	3570.5	3582.8
42.5°	5840.9	5821.2	5749.8	5193.3	4395.5	3952.2	3873.4	3713.4	3802.0	3794.6	3811.9
45°	6380.2	6365.4	6345.7	5769.5	4974.1	4425.0	4383.1	4095.0	4176.3	4141.8	4215.7
47.5°	6811.1	6828.3	6828.3	6412.2	5592.2	5055.4	4993.8	4538.3	4693.4	4710.6	4727.9
50°	7178.0	7185.4	7178.0	7025.3	6281.7	5776.9	5651.3	5188.4	5343.5	5478.9	5636.5
52.5°	7685.3	7695.1	7660.6	7601.5	7217.4	6535.3	6394.9	5880.3	6198.0	6340.8	6624.0
55°	8310.7	8236.9	8172.8	8217.2	8116.2	7370.1	7224.8	6594.4	7072.1	7261.7	7828.1
57.5°	8426.5	8490.5	8653.0	9005.1	9150.4	8182.7	8099.0	7471.0	8059.6	8224.5	9170.1
60°	8835.2	8729.3	9128.3	9891.6	10054.1	9241.5	9155.3	8431.4	9042.1	9214.4	10408.7
62.5°	9103.6	9098.7	9689.7	10595.9	10965.2	10339.8	10164.9	9679.8	10103.4	10270.8	11758.1
65°	9024.8	9096.2	10145.2	11009.6	11726.1	11588.2	11487.3	10753.5	11312.4	11297.7	12637.2
67.5°	8305.8	8507.7	9857.1	11307.5	12858.8	13110.0	13078.0	12262.9	12294.9	11982.2	13028.8
70°	7308.5	7239.6	8638.2	10997.2	13425.2	14915.0	14907.6	13385.8	13179.0	12132.4	11905.9
72°	5614.4	5538.0	6688.0	9443.4	13127.3	15636.5	15858.1	14163.9	13169.1	11509.4	9835.0
72.5°	5097.2	5030.8	6175.8	8889.4	12797.3	15823.6	15720.2	14193.5	13065.7	11216.4	9187.4
75°	2346.7	2270.4	3085.4	5442.0	9982.7	14021.1	14373.2	13282.4	11410.9	8928.8	5503.5
77.5°	699.3	677.2	992.4	2196.5	5801.5	10329.9	10465.4	10022.1	7966.0	4890.4	2041.4
80°	389.1	391.5	512.2	822.5	2551.1	5971.4	6459.0	6190.6	3907.9	1615.4	679.6
82.5°	216.7	229.0	320.1	487.6	1172.1	2740.7	2950.0	2844.1	1413.4	758.4	371.8
85°	113.3	118.2	167.4	261.0	664.9	866.8	891.4	955.4	733.8	517.1	199.5
87.5°	44.3	44.3	61.6	108.3	246.2	268.4	241.3	293.0	421.1	334.9	98.5
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°	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6
2.5°	2388.6	2368.9	2366.4	2334.4	2344.2	2317.2	2319.6	2314.7	2317.2	2312.2	2299.9
5°	2376.3	2361.5	2319.6	2346.7	2322.1	2356.6	2383.6	2373.8	2381.2	2378.7	2381.2
7.5°	2393.5	2373.8	2368.9	2354.1	2376.3	2391.0	2413.2	2474.7	2469.8	2477.2	2492.0
10°	2445.2	2423.0	2408.3	2430.4	2418.1	2464.9	2489.5	2521.5	2578.2	2580.6	2551.1
12.5°	2546.2	2531.4	2501.8	2506.8	2548.6	2563.4	2578.2	2597.9	2634.8	2627.4	2654.5
15°	2661.9	2629.9	2612.6	2607.7	2617.6	2634.8	2632.3	2652.0	2671.7	2689.0	2681.6
17.5°	2745.6	2703.8	2708.7	2733.3	2730.8	2725.9	2693.9	2684.1	2693.9	2703.8	2698.8
20°	2831.8	2836.7	2799.8	2777.6	2767.8	2718.5	2693.9	2664.4	2634.8	2649.6	2671.7
22.5°	2940.2	2918.0	2863.8	2797.3	2748.1	2718.5	2642.2	2590.5	2590.5	2605.3	2597.9
25°	3063.3	3016.5	2922.9	2802.3	2740.7	2615.1	2560.9	2553.5	2533.8	2556.0	2565.9
27.5°	3159.3	3117.4	2989.4	2785.0	2615.1	2514.1	2482.1	2472.3	2504.3	2506.8	2546.2
30°	3198.7	3186.4	2999.2	2740.7	2487.1	2324.5	2304.8	2349.2	2383.6	2435.4	2437.8
32.5°	3250.4	3255.3	3014.0	2637.3	2319.6	2157.1	2127.5	2181.7	2280.2	2322.1	2354.1
35°	3336.6	3361.2	3001.7	2509.2	2142.3	1987.2	1982.3	1997.0	2093.1	2166.9	2208.8
37.5°	3486.8	3481.9	2999.2	2356.6	2002.0	1839.4	1800.0	1805.0	1869.0	1930.6	1923.2
40°	3688.7	3669.0	2991.9	2157.1	1819.7	1713.9	1647.4	1622.7	1617.8	1600.6	1605.5
42.5°	3964.5	3925.1	2989.4	1955.2	1654.8	1541.5	1494.7	1430.7	1383.9	1295.2	1300.2
45°	4348.7	4279.7	2925.4	1765.6	1492.2	1398.7	1327.3	1280.5	1179.5	1068.7	1068.7
47.5°	4942.1	4718.0	2927.8	1556.3	1334.6	1258.3	1209.1	1127.8	1019.4	930.8	921.0
50°	5816.3	5304.1	2844.1	1391.3	1206.6	1154.9	1103.2	1009.6	906.2	844.6	852.0
52.5°	6944.1	6178.3	2841.7	1243.5	1105.6	1068.7	1012.1	928.3	852.0	812.6	797.8
55°	8288.6	7335.6	2930.3	1122.9	1002.2	982.5	957.9	888.9	815.1	780.6	778.1
57.5°	9665.1	8465.9	3073.1	1036.7	913.6	928.3	911.1	856.9	797.8	758.4	753.5
60°	10888.9	9362.2	2785.0	933.3	834.8	866.8	891.4	844.6	812.6	810.1	792.9
62.5°	11812.3	9746.3	2117.7	854.5	792.9	852.0	918.5	948.0	933.3	953.0	955.4
65°	12149.7	9514.9	1457.8	812.6	760.9	886.5	1034.2	1024.4	938.2	901.3	921.0
67.5°	11676.9	8576.7	1081.0	763.4	738.7	957.9	1100.7	977.6	847.1	842.2	827.4
70°	10041.8	7269.1	881.6	711.6	701.8	918.5	1071.2	906.2	797.8	765.8	751.0
72°	8000.5	5661.1	773.2	674.7	642.7	820.0	1002.2	849.5	756.0	716.6	699.3
72.5°	7303.6	5247.5	758.4	657.5	630.4	797.8	967.7	832.3	746.1	711.6	684.6
75°	4006.4	2686.5	667.3	603.3	531.9	689.5	896.3	780.6	704.3	655.0	650.1
77.5°	1489.8	1041.6	576.2	534.3	460.5	595.9	815.1	741.2	640.2	578.7	566.4
80°	571.3	549.1	470.3	450.6	386.6	522.0	751.0	664.9	544.2	482.6	462.9
82.5°	347.2	320.1	357.1	352.1	295.5	475.3	706.7	623.0	482.6	391.5	379.2
85°	189.6	189.6	248.7	238.9	206.8	379.2	534.3	413.7	305.3	251.2	256.1
87.5°	83.7	98.5	133.0	125.6	113.3	214.2	261.0	219.2	152.7	103.4	110.8
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)