

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: P480885

Luminaire Tested: **IFLD-S-SA2E-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480885
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

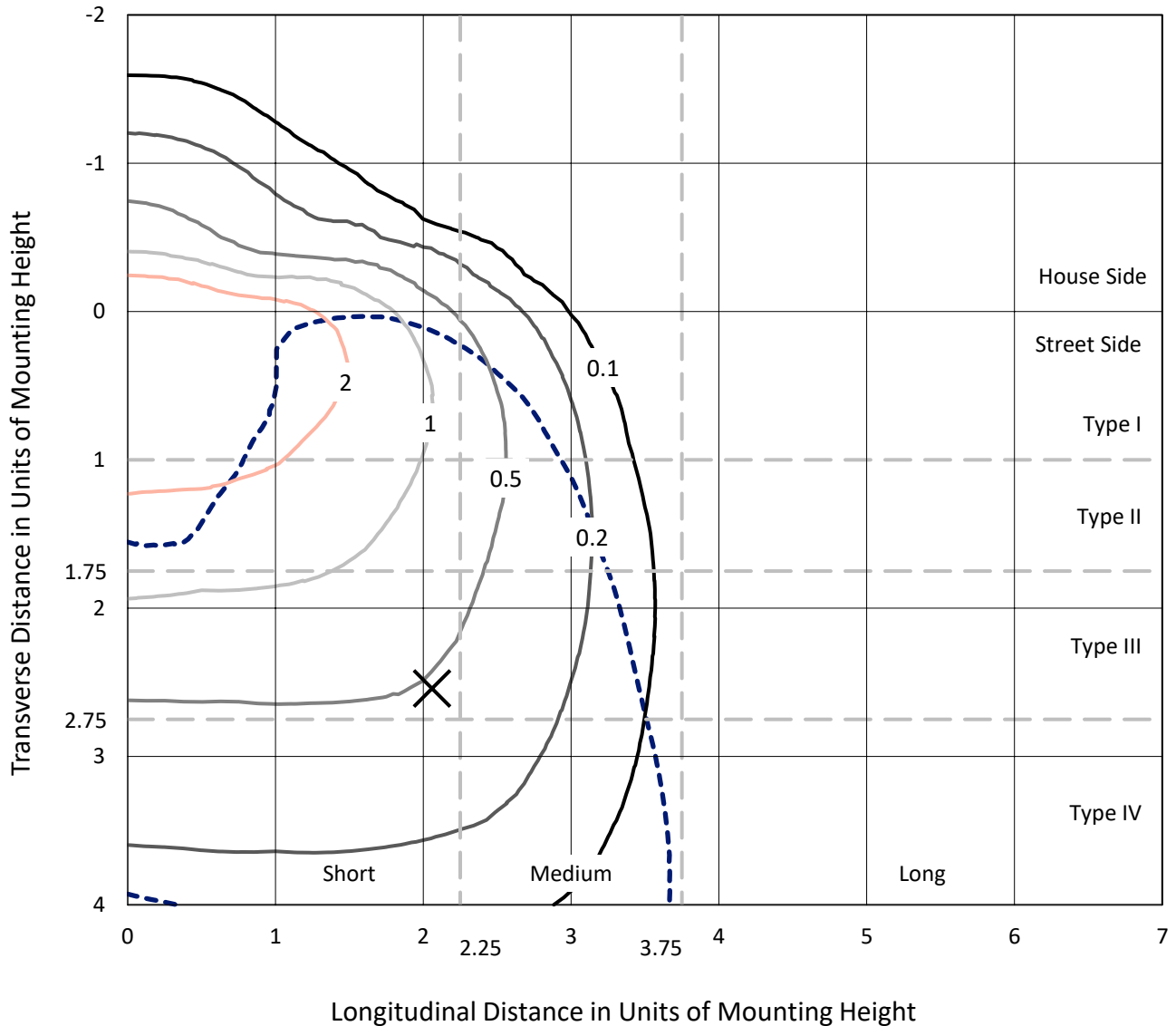
Lumens per Lamp: N/A
Luminaire Lumens: 17507.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 156.2
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

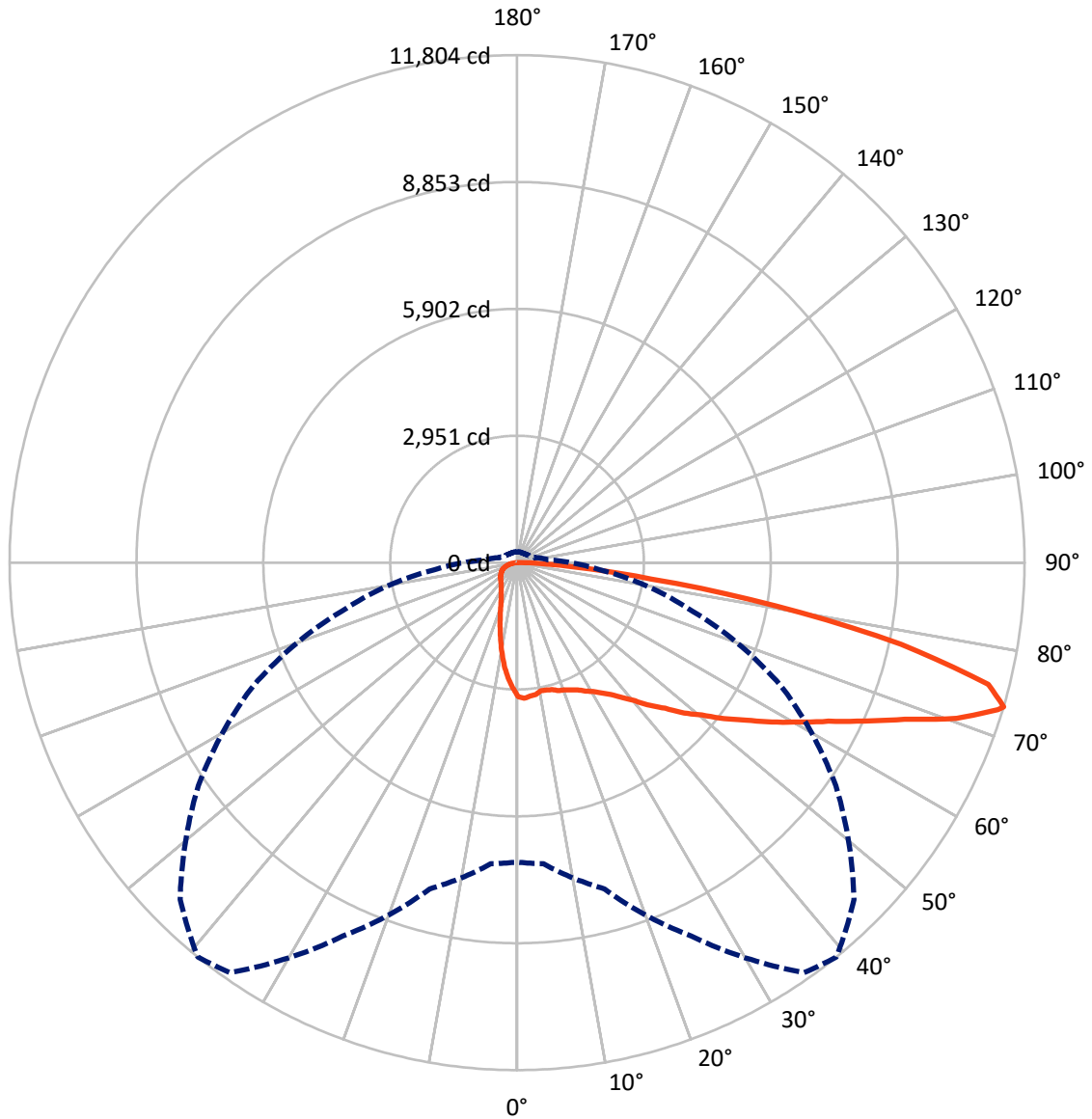
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2461.0	0.0	2461.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15046.1	0.0	15046.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	17507.2	0.0	17507.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	1.5
10°-20°	687.7	3.9
20°-30°	1050.9	6.0
30°-40°	1532.3	8.8
40°-50°	2315.4	13.2
50°-60°	3352.8	19.2
60°-70°	4259.9	24.3
70°-80°	3453.3	19.7
80°-90°	584.3	3.3
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°	17507.2	100.0
0°-180°	17507.2	100.0

Coefficient of Utilization



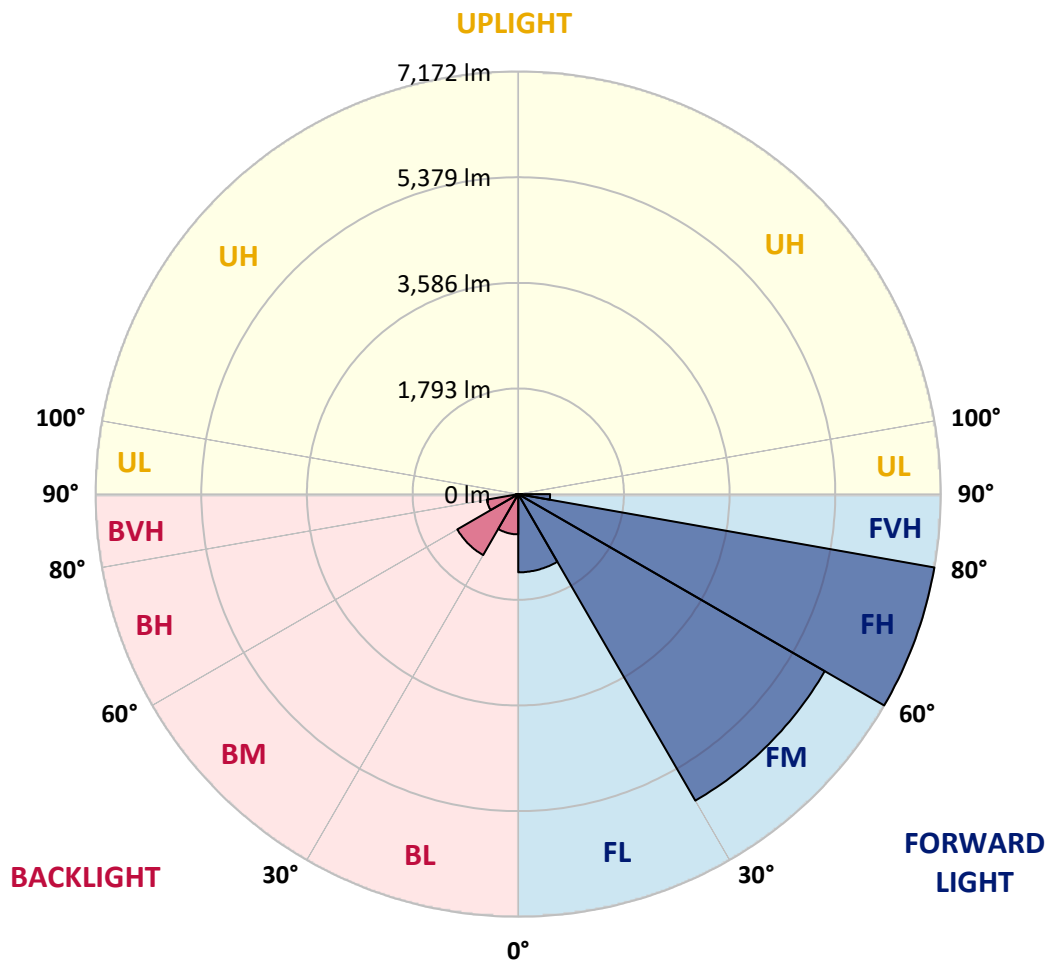
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.7	7.6			
FM (30°-60°)	6006.1	34.3			
FH (60°-80°)	7172.0	41.0			G3/7500
FVH (80°-90°)	541.4	3.1			G4/750
BL (0°-30°)	682.5	3.9	B2/1000		
BM (30°-60°)	1194.4	6.8	B2/2500		
BH (60°-80°)	541.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	42.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4
2.5°	3190.8	3157.5	3163.4	3151.6	3163.4	3159.5	3153.6	3124.2	3153.6	3124.2	3116.4
5°	3147.7	3147.7	3167.3	3137.9	3141.8	3122.3	3141.8	3120.3	3100.7	3051.7	3038.0
7.5°	3134.0	3132.0	3134.0	3092.9	3112.5	3100.7	3081.1	3057.6	3018.4	2987.1	2942.1
10°	3040.0	3059.6	3038.0	3049.8	3065.5	3030.2	3028.2	3022.4	3004.7	2963.6	2936.2
12.5°	2989.1	3022.4	3034.1	3024.3	3038.0	3041.9	3030.2	3022.4	3000.8	2973.4	2895.0
15°	3010.6	2971.4	3004.7	3069.4	3055.7	3065.5	3067.4	3059.6	3049.8	2998.9	2947.9
17.5°	3016.5	2993.0	3063.5	3077.2	3094.8	3130.1	3106.6	3104.6	3067.4	3032.2	2957.7
20°	3030.2	3020.4	3077.2	3149.7	3151.6	3157.5	3169.3	3139.9	3120.3	3059.6	2946.0
22.5°	3081.1	3114.4	3167.3	3198.6	3216.3	3220.2	3220.2	3161.4	3139.9	3090.9	3000.8
25°	3233.9	3198.6	3273.1	3310.3	3284.8	3279.0	3265.2	3212.4	3188.9	3145.8	3026.3
27.5°	3345.6	3343.6	3386.7	3437.6	3369.1	3382.8	3333.8	3318.1	3265.2	3241.7	3071.3
30°	3498.3	3541.4	3539.5	3555.1	3465.0	3480.7	3418.0	3388.6	3359.3	3373.0	3204.5
32.5°	3694.2	3678.5	3704.0	3692.3	3602.2	3615.9	3541.4	3496.4	3506.2	3547.3	3386.7
35°	3819.6	3803.9	3813.7	3813.7	3786.3	3770.6	3739.3	3680.5	3727.5	3803.9	3590.4
37.5°	3954.7	3974.3	4031.1	4019.4	3984.1	3984.1	3980.2	3939.1	3999.8	4187.8	3915.6
40°	4074.2	4127.1	4162.4	4185.9	4227.0	4227.0	4260.3	4236.8	4346.5	4648.1	4313.2
42.5°	4199.6	4201.5	4393.5	4411.1	4503.2	4542.4	4567.8	4587.4	4793.1	5130.0	4738.2
45°	4360.2	4370.0	4538.4	4673.6	4816.6	4830.3	4926.3	4990.9	5243.6	5656.9	5200.5
47.5°	4571.7	4560.0	4740.2	4955.7	5133.9	5227.9	5343.5	5414.0	5725.4	6228.8	5705.9
50°	4849.9	4814.6	4918.4	5257.3	5466.9	5570.7	5776.4	5893.9	6258.2	6775.3	6052.6
52.5°	5188.7	5130.0	5212.2	5582.5	5817.5	6027.1	6223.0	6354.2	6734.2	7198.4	6309.2
55°	5547.2	5425.8	5449.3	5927.2	6266.1	6463.9	6732.2	6869.4	7257.2	7578.4	6565.7
57.5°	5901.7	5825.3	5778.3	6258.2	6800.8	6990.8	7237.6	7415.8	7744.9	7915.3	6783.2
60°	6199.5	6179.9	6103.5	6771.4	7366.9	7529.5	7788.0	7897.7	8146.5	8226.8	6787.1
62.5°	6444.3	6377.7	6499.2	7184.7	7942.8	8126.9	8410.9	8420.7	8597.0	8420.7	6587.3
65°	6636.3	6640.2	6834.1	7684.2	8608.7	8881.0	9110.2	9084.7	8971.1	8305.1	6115.2
67.5°	6810.6	6885.0	7169.0	8232.6	9464.7	9721.3	9975.9	9639.0	9073.0	7764.5	5192.7
70°	6947.7	7022.1	7621.5	8900.6	10473.5	10849.5	10906.4	9858.4	8604.8	6577.5	3917.5
72.5°	6932.0	7067.2	7878.1	9433.4	11368.6	11693.8	11235.4	9241.4	7169.0	4585.4	2285.9
73°	6965.3	7031.9	7856.6	9582.2	11640.9	11803.5	11082.6	9047.5	6761.6	4113.4	1933.3
75°	6322.9	6548.1	7466.8	9339.3	11349.0	11319.6	10205.1	7539.2	4806.8	2160.5	936.3
77.5°	4677.5	4820.5	5884.1	7680.3	9315.8	9127.8	7697.9	4818.5	2282.0	801.1	505.4
80°	2285.9	2397.5	3118.3	4434.6	6091.7	6107.4	4777.4	2507.2	977.4	452.5	344.7
82.5°	1142.0	1208.6	1498.4	1949.0	2996.9	3139.9	2423.0	1426.0	605.3	256.6	195.9
85°	746.3	793.3	922.6	953.9	1271.2	1341.7	1128.2	1112.6	393.7	139.1	158.7
87.5°	495.6	503.4	566.1	481.9	509.3	489.7	544.5	701.2	115.6	58.8	43.1
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°	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4	3116.4
2.5°	3106.6	3079.2	3049.8	3008.6	2979.3	2934.2	2893.1	2875.5	2871.5	2873.5	2853.9
5°	3026.3	2987.1	2928.3	2844.1	2795.1	2720.7	2658.0	2624.7	2589.5	2595.4	2579.7
7.5°	2914.6	2871.5	2781.4	2683.5	2562.1	2456.3	2397.5	2315.2	2268.2	2233.0	2252.6
10°	2879.4	2804.9	2669.8	2534.6	2346.6	2207.5	2072.4	1978.3	1913.7	1851.0	1878.4
12.5°	2861.7	2787.3	2599.3	2399.5	2156.6	1945.0	1755.0	1639.5	1547.4	1492.6	1514.1
15°	2846.1	2754.0	2532.7	2250.6	1978.3	1700.2	1486.7	1333.9	1245.8	1192.9	1198.8
17.5°	2867.6	2736.4	2434.7	2105.7	1782.5	1484.7	1247.7	1089.1	999.0	965.7	957.8
20°	2846.1	2716.8	2338.8	1960.7	1586.6	1279.1	1051.9	920.6	857.9	830.5	824.6
22.5°	2853.9	2669.8	2238.9	1800.1	1404.4	1106.7	920.6	820.7	771.7	758.0	762.0
25°	2891.1	2642.4	2139.0	1623.8	1224.2	979.4	836.4	760.0	724.7	711.0	714.9
27.5°	2918.5	2665.9	2048.9	1457.3	1071.4	865.8	765.9	714.9	691.4	681.6	679.7
30°	2987.1	2679.6	1960.7	1308.4	946.1	791.3	716.9	675.8	660.1	654.2	652.3
32.5°	3089.0	2705.0	1858.9	1171.3	854.0	720.8	677.7	642.5	638.6	632.7	634.6
35°	3255.5	2793.2	1745.3	1053.8	765.9	673.8	636.6	613.1	613.1	613.1	619.0
37.5°	3494.4	2916.6	1643.4	942.2	709.1	632.7	601.3	593.5	589.6	595.5	599.4
40°	3801.9	3065.5	1561.1	854.0	660.1	605.3	577.8	573.9	572.0	570.0	573.9
42.5°	4138.9	3255.5	1490.6	785.5	624.8	575.9	556.3	552.4	544.5	548.5	554.3
45°	4473.8	3490.5	1427.9	730.6	601.3	560.2	532.8	530.8	526.9	524.9	534.7
47.5°	4846.0	3721.6	1408.3	697.3	583.7	536.7	517.1	515.2	503.4	501.4	509.3
50°	5135.9	3892.0	1429.9	681.6	558.2	519.1	505.4	495.6	485.8	476.0	476.0
52.5°	5335.6	4009.6	1445.6	669.9	544.5	495.6	477.9	474.0	464.2	454.4	450.5
55°	5515.9	4080.1	1449.5	671.9	530.8	468.1	456.4	454.4	448.6	432.9	429.0
57.5°	5576.6	4050.7	1371.1	654.2	523.0	450.5	434.8	438.8	430.9	417.2	415.3
60°	5570.7	3847.0	1192.9	630.7	505.4	430.9	411.3	423.1	423.1	407.4	405.5
62.5°	5231.8	3376.9	975.5	585.7	485.8	411.3	389.8	407.4	413.3	403.5	401.5
65°	4528.6	2750.1	814.8	540.6	456.4	389.8	368.2	387.8	397.6	393.7	391.8
67.5°	3747.1	2103.7	677.7	481.9	419.2	360.4	342.8	356.5	362.4	364.3	366.3
70°	2648.2	1400.5	566.1	417.2	368.2	329.1	309.5	311.4	309.5	315.4	315.4
72.5°	1439.7	807.0	460.3	354.5	317.3	286.0	272.3	262.5	262.5	260.5	260.5
73°	1232.1	724.7	438.8	344.7	303.6	278.1	262.5	254.6	254.6	252.7	250.7
75°	691.4	530.8	376.1	295.8	262.5	242.9	231.1	219.4	217.4	217.4	217.4
77.5°	454.4	413.3	299.7	237.0	211.5	193.9	190.0	178.2	178.2	178.2	176.3
80°	340.8	325.2	231.1	180.2	162.6	148.9	144.9	137.1	135.2	127.3	129.3
82.5°	227.2	256.6	168.5	127.3	109.7	101.9	101.9	99.9	94.0	84.2	84.2
85°	180.2	209.6	121.4	78.4	64.6	54.8	56.8	54.8	52.9	43.1	41.1
87.5°	33.3	84.2	35.3	21.5	15.7	9.8	9.8	5.9	3.9	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)