

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: P480261

Luminaire Tested: **IFLD-S-SA2E-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480261
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

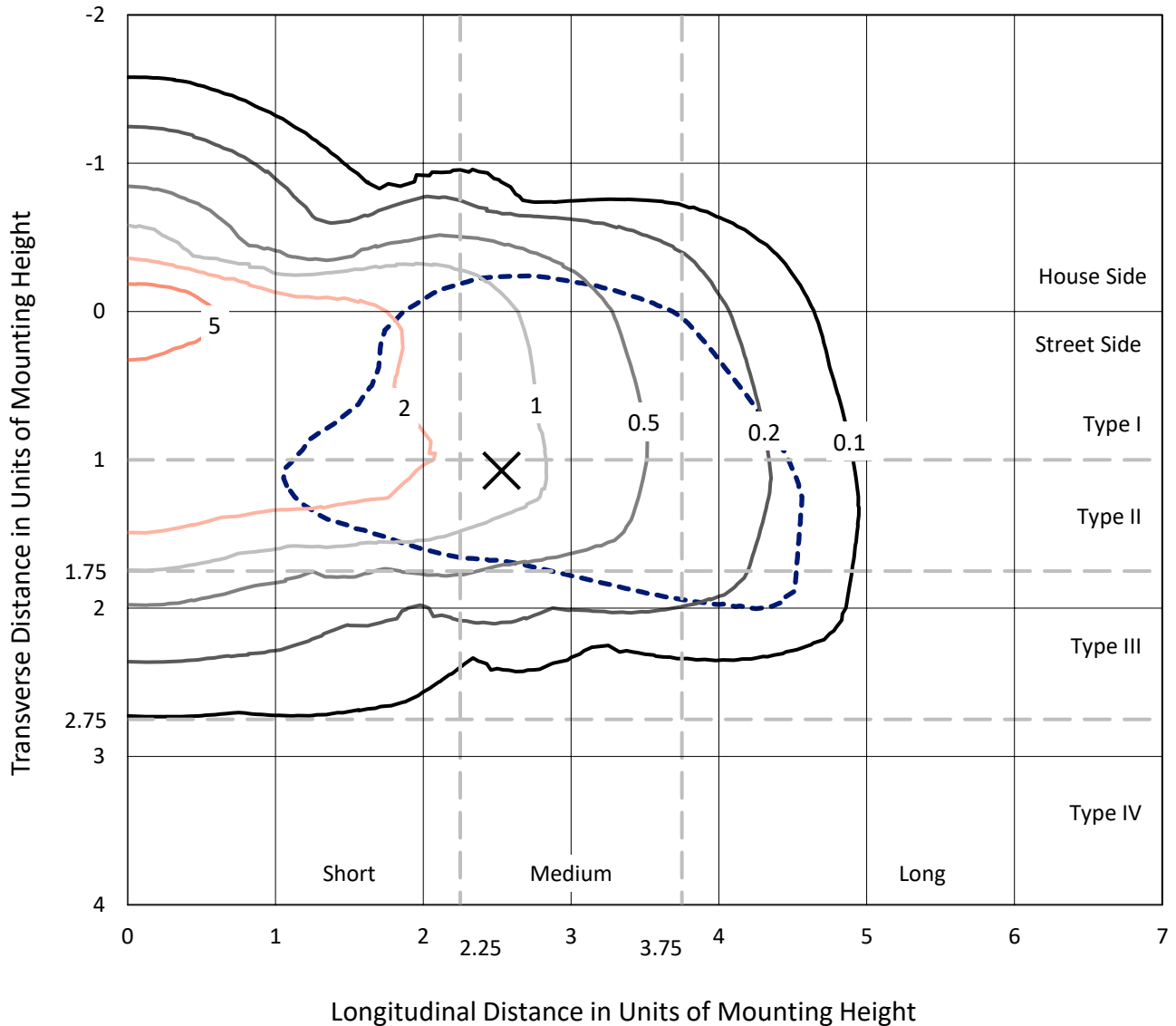
Lumens per Lamp: N/A
Luminaire Lumens: 14339.5 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

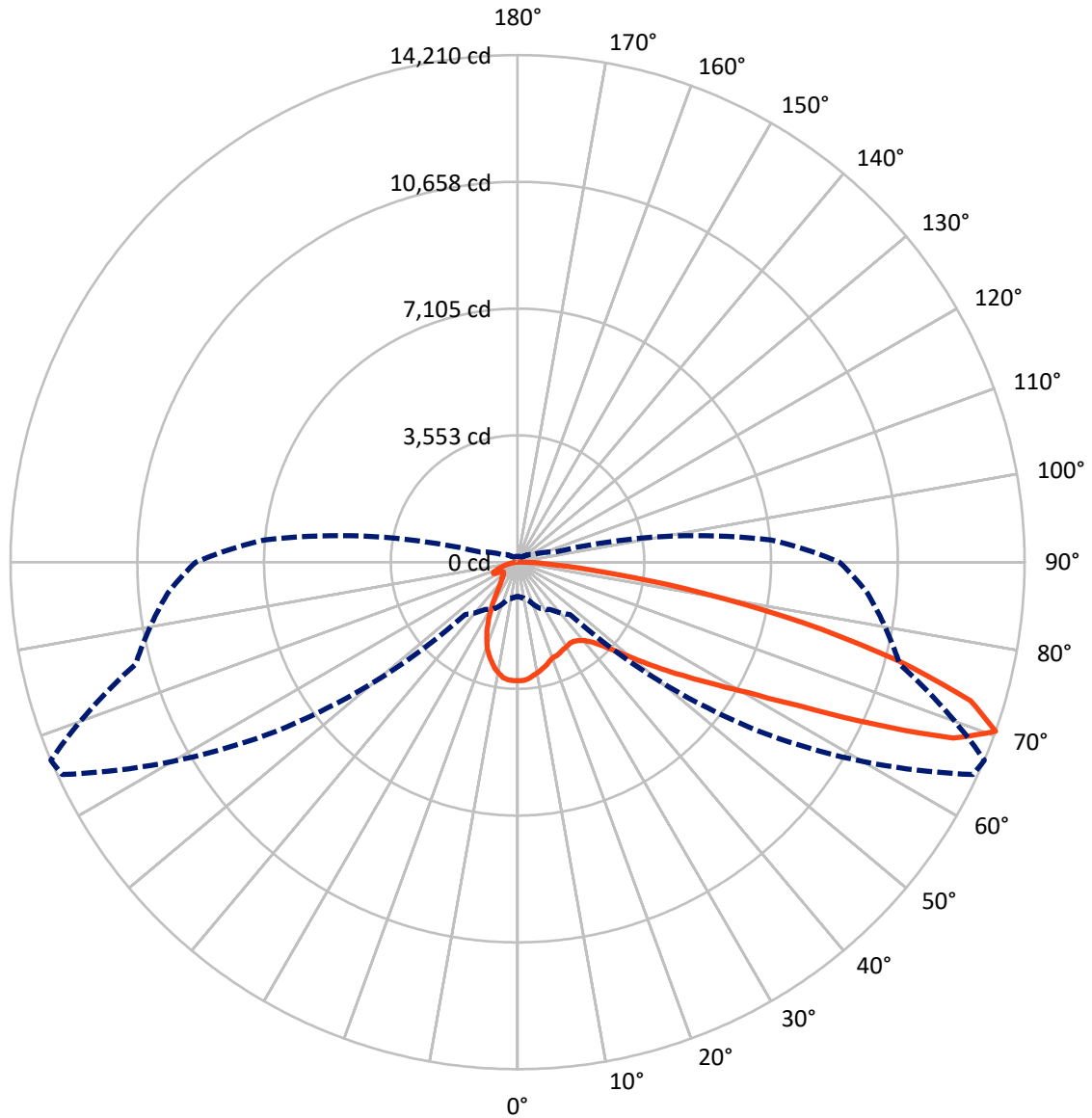
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2792.8	0.0	2792.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11546.7	0.0	11546.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	14339.5	0.0	14339.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	2.0
10°-20°	693.7	4.8
20°-30°	936.7	6.5
30°-40°	1253.5	8.7
40°-50°	1843.2	12.9
50°-60°	2873.1	20.0
60°-70°	3539.1	24.7
70°-80°	2500.7	17.4
80°-90°	409.9	2.9
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°	14339.5	100.0
0°-180°	14339.5	100.0

Coefficient of Utilization

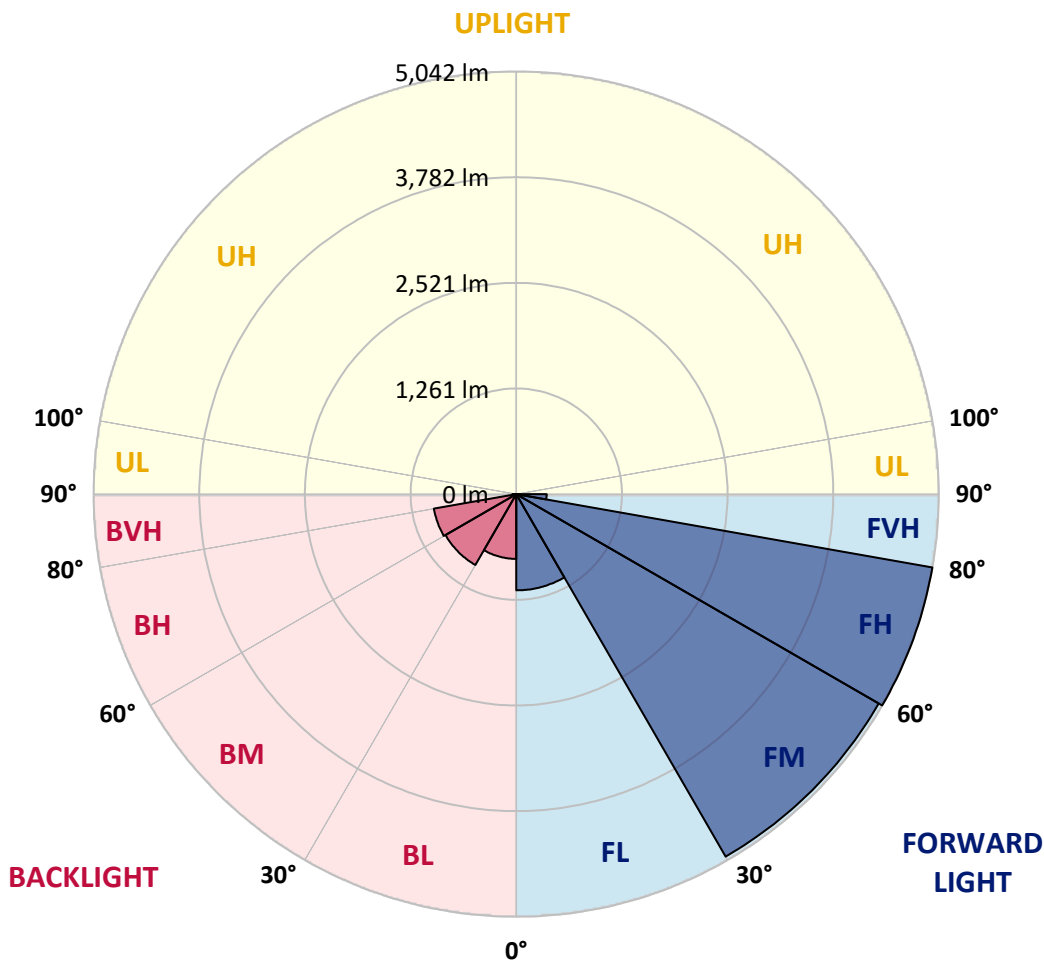


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.8	8.0			
FM (30°-60°)	4994.1	34.8			
FH (60°-80°)	5042.2	35.2			G3/7500
FVH (80°-90°)	362.6	2.5			G3/500
BL (0°-30°)	772.3	5.4	B2/1000		
BM (30°-60°)	975.6	6.8	B1/1000		
BH (60°-80°)	997.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	47.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5
2.5°	3090.9	3125.9	3138.6	3157.6	3206.8	3243.3	3265.6	3291.0	3321.1	3346.5	3362.4
5°	2875.0	2894.1	2924.2	2944.9	3006.8	3105.2	3171.9	3279.8	3276.7	3316.4	3376.7
7.5°	2665.5	2684.5	2698.8	2740.1	2829.0	2917.9	3040.1	3214.8	3202.1	3294.1	3387.8
10°	2535.3	2521.0	2525.8	2595.6	2665.5	2765.5	2919.5	3097.3	3143.3	3286.2	3419.6
12.5°	2413.1	2397.2	2435.3	2479.7	2565.5	2655.9	2840.1	3000.4	3070.3	3257.6	3433.8
15°	2336.9	2325.7	2373.4	2392.4	2494.0	2602.0	2732.1	2927.4	3003.6	3222.7	3411.6
17.5°	2294.0	2303.5	2321.0	2362.3	2427.3	2519.4	2662.3	2878.2	2911.5	3179.8	3406.9
20°	2301.9	2313.0	2314.6	2332.1	2376.5	2448.0	2594.0	2825.8	2848.0	3171.9	3419.6
22.5°	2365.4	2349.6	2355.9	2344.8	2357.5	2413.1	2541.6	2756.0	2841.7	3105.2	3392.6
25°	2460.7	2438.5	2435.3	2397.2	2373.4	2389.2	2532.1	2738.5	2794.1	3084.6	3391.0
27.5°	2629.0	2595.6	2595.6	2538.5	2441.6	2416.2	2505.1	2709.9	2759.1	3065.5	3354.5
30°	2790.9	2790.9	2792.5	2711.5	2603.6	2478.1	2516.2	2698.8	2730.6	3008.4	3305.2
32.5°	2987.7	2983.0	2975.0	2935.4	2768.7	2581.3	2570.2	2684.5	2700.4	2989.3	3291.0
35°	3179.8	3167.1	3229.0	3194.1	3024.3	2782.9	2625.8	2690.9	2725.8	2960.8	3246.5
37.5°	3324.3	3332.2	3460.8	3483.1	3337.0	3011.6	2782.9	2754.4	2787.7	3002.0	3246.5
40°	3511.6	3543.4	3664.0	3738.6	3649.7	3313.2	3032.2	2860.7	2884.6	3094.1	3316.4
42.5°	3757.7	3784.7	3938.7	4035.5	4010.1	3697.4	3278.3	3083.0	3063.9	3248.1	3421.1
45°	4083.1	4087.9	4243.5	4376.8	4429.2	4099.0	3668.8	3364.0	3348.1	3513.2	3613.2
47.5°	4470.5	4465.7	4562.6	4705.5	4846.7	4578.5	4118.1	3791.0	3733.9	3892.6	3932.3
50°	4845.2	4824.5	4846.7	5029.3	5300.8	5178.5	4664.2	4313.3	4256.2	4343.5	4411.8
52.5°	5051.5	5076.9	5016.6	5257.9	5783.4	5888.2	5388.1	4937.2	4888.0	4930.9	5049.9
55°	4907.1	4959.5	4919.8	5148.4	5994.5	6753.4	6324.7	5659.6	5596.1	5580.2	5775.5
57.5°	4292.7	4387.9	4395.9	4757.8	5921.5	7423.3	7642.4	6512.1	6416.8	6254.9	6456.5
60°	3295.7	3391.0	3464.0	3892.6	5296.0	7823.4	9169.6	7724.9	7410.6	6991.5	7112.2
62.5°	2309.9	2375.0	2448.0	2711.5	4083.1	7588.4	10490.4	9433.1	8853.7	7767.8	7918.6
65°	1682.8	1733.6	1808.2	1963.8	2508.3	6278.7	11103.2	11462.0	10912.7	8755.3	8736.2
67.5°	1266.9	1298.6	1397.0	1646.3	1738.4	3878.3	10468.2	13605.2	13160.7	9852.2	9393.4
70°	958.9	985.9	1077.9	1419.3	1624.0	2079.7	8258.4	14083.0	14210.0	11082.6	9834.8
72.5°	660.4	690.6	793.8	1182.7	1546.3	1649.4	5183.3	12793.9	13275.0	11589.0	9361.7
75°	404.8	425.5	485.8	897.0	1535.1	1612.9	2852.8	10484.1	10993.7	10707.9	8190.1
77.5°	285.8	284.2	295.3	525.5	1330.4	1622.5	1759.0	7682.1	8177.4	7891.6	5558.0
80°	208.0	209.6	220.7	314.3	903.3	1649.4	1385.9	5145.2	5292.8	4114.9	2192.4
82.5°	125.4	131.8	158.8	212.7	542.9	1489.1	1281.1	2859.2	2675.0	1320.8	603.3
85°	66.7	66.7	93.7	134.9	288.9	1111.3	1233.5	1360.5	1139.9	409.6	223.8
87.5°	15.9	15.9	27.0	54.0	115.9	531.8	841.4	541.3	433.4	138.1	92.1
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°	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5	3319.5
2.5°	3356.0	3337.0	3360.8	3313.2	3275.1	3276.7	3217.9	3214.8	3206.8	3165.5	3179.8
5°	3394.1	3378.3	3351.3	3298.9	3214.8	3130.6	3079.8	3014.7	2987.7	2973.5	2979.8
7.5°	3430.7	3402.1	3324.3	3251.3	3121.1	2962.3	2870.3	2782.9	2671.8	2659.1	2636.9
10°	3440.2	3379.9	3279.8	3124.3	2951.2	2775.0	2565.5	2403.5	2317.8	2251.1	2225.7
12.5°	3425.9	3400.5	3208.4	3008.4	2746.4	2470.2	2225.7	1997.1	1838.4	1755.8	1733.6
15°	3424.3	3379.9	3129.0	2832.2	2497.2	2136.8	1789.2	1514.5	1347.8	1279.6	1279.6
17.5°	3425.9	3319.5	3035.4	2654.4	2203.5	1716.1	1333.5	1108.1	1016.0	1006.5	1014.4
20°	3394.1	3275.1	2936.9	2444.8	1835.2	1289.1	968.4	876.3	876.3	889.0	893.8
22.5°	3365.6	3208.4	2781.4	2186.0	1460.5	933.5	787.4	760.4	790.6	812.8	822.3
25°	3325.9	3152.8	2622.6	1917.7	1111.3	752.5	684.2	690.6	719.2	758.8	755.7
27.5°	3268.7	3056.0	2433.7	1606.6	827.1	649.3	631.8	635.0	665.2	682.6	679.5
30°	3203.6	2957.6	2259.1	1297.0	655.7	595.3	593.7	601.7	606.4	616.0	614.4
32.5°	3121.1	2827.4	2073.3	1008.1	590.6	565.2	558.8	554.0	558.8	557.2	552.5
35°	3062.4	2757.5	1884.4	768.4	554.0	538.2	533.4	525.5	519.1	509.6	508.0
37.5°	3046.5	2687.7	1686.0	627.1	525.5	517.5	501.7	487.4	479.4	474.7	471.5
40°	3037.0	2641.7	1492.3	550.9	501.7	493.7	474.7	455.6	447.7	442.9	444.5
42.5°	3070.3	2616.3	1295.4	512.8	481.0	466.7	446.1	423.9	422.3	419.1	423.9
45°	3187.8	2648.0	1112.9	485.8	460.4	436.6	409.6	398.5	396.9	393.7	396.9
47.5°	3454.5	2727.4	957.3	468.3	438.2	417.5	388.9	373.1	371.5	369.9	369.9
50°	3822.8	2971.9	827.1	447.7	423.9	395.3	368.3	350.8	347.7	341.3	341.3
52.5°	4400.6	3383.0	749.3	436.6	398.5	374.7	346.1	327.0	319.1	312.7	312.7
55°	5051.5	3892.6	735.0	417.5	371.5	349.3	323.9	304.8	296.9	288.9	285.8
57.5°	5792.9	4567.3	836.6	404.8	352.4	323.9	295.3	277.8	271.5	263.5	260.4
60°	6483.5	5240.5	1152.6	385.8	335.0	300.0	271.5	254.0	246.1	238.1	238.1
62.5°	7282.0	6073.9	1687.5	385.8	319.1	274.6	246.1	233.4	228.6	220.7	219.1
65°	8226.6	6935.9	2078.1	409.6	314.3	252.4	222.3	209.6	204.8	200.0	198.4
67.5°	8945.8	7431.3	1787.6	473.1	335.0	233.4	198.4	190.5	187.3	182.6	179.4
70°	9022.0	7129.6	1077.9	511.2	355.6	214.3	177.8	169.9	169.9	165.1	161.9
72.5°	8337.7	6326.3	725.5	455.6	322.3	192.1	157.2	150.8	147.6	144.5	142.9
75°	6977.2	5365.9	573.1	363.5	247.7	158.8	136.5	130.2	125.4	123.8	120.7
77.5°	4686.4	3487.8	423.9	284.2	182.6	128.6	114.3	108.0	103.2	101.6	96.8
80°	1800.3	1328.8	273.1	206.4	128.6	101.6	90.5	84.1	81.0	76.2	73.0
82.5°	530.2	430.2	152.4	127.0	82.6	69.9	65.1	60.3	55.6	50.8	49.2
85°	219.1	196.9	93.7	66.7	50.8	41.3	38.1	33.3	28.6	25.4	22.2
87.5°	101.6	84.1	42.9	25.4	17.5	9.5	4.8	1.6	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)