

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: P480633

Luminaire Tested: **IFLD-M-SA4A-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480633
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

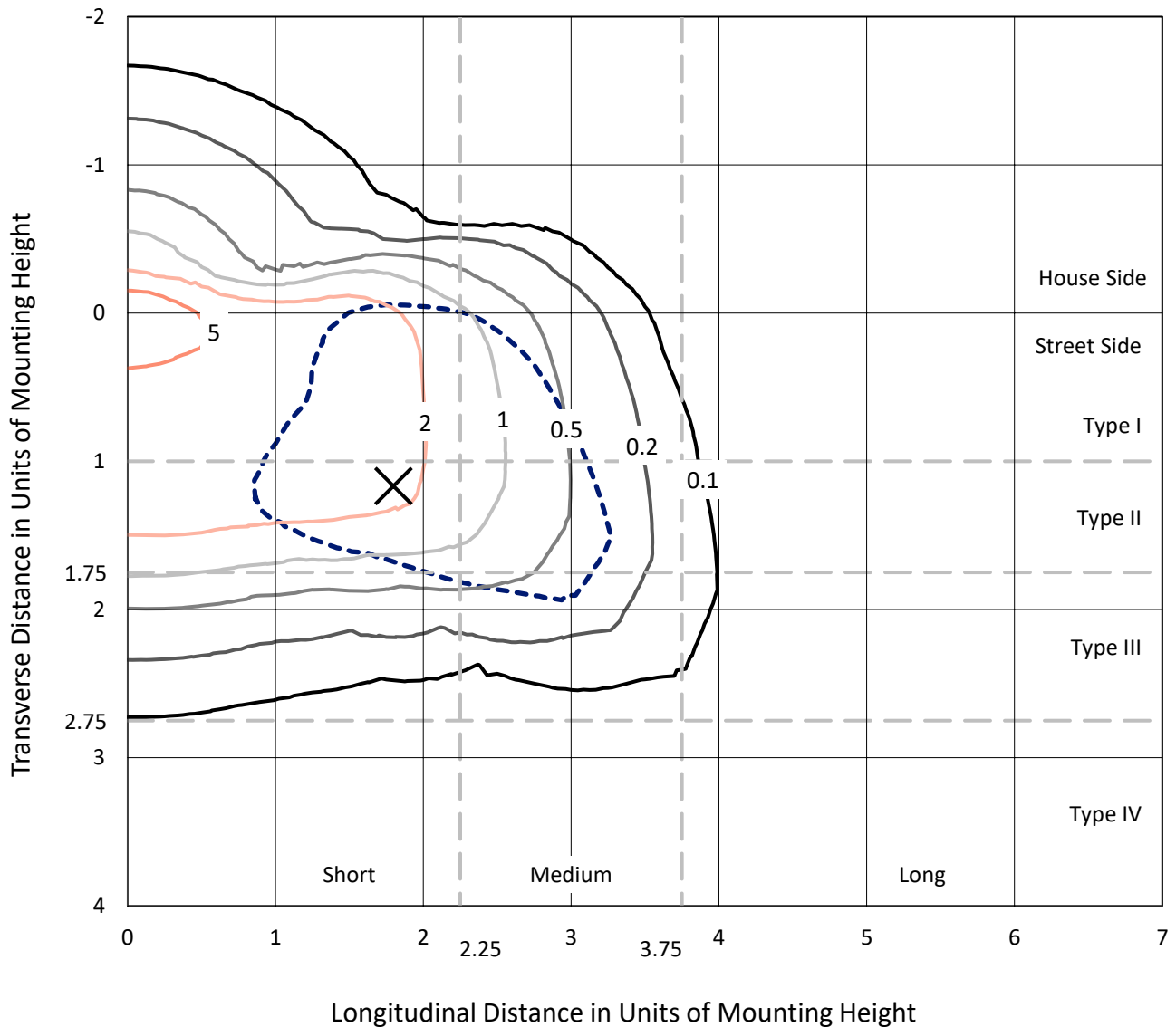
Lumens per Lamp: N/A
Luminaire Lumens: 13395.2 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6
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

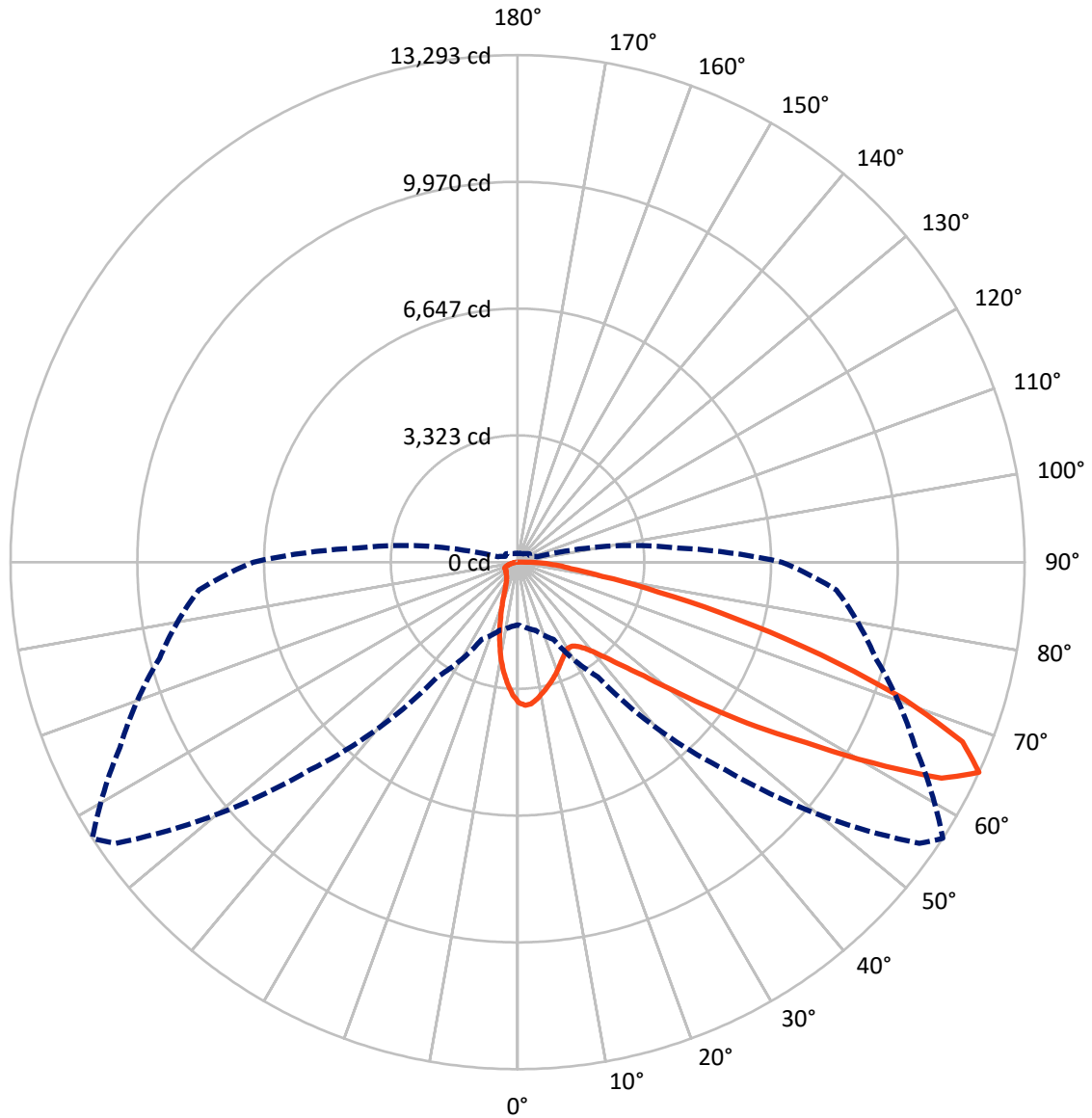
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2054.3	0.0	2054.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11340.9	0.0	11340.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	13395.2	0.0	13395.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.5	2.3
10°-20°	663.9	5.0
20°-30°	858.3	6.4
30°-40°	1155.0	8.6
40°-50°	1841.7	13.7
50°-60°	3252.9	24.3
60°-70°	3578.6	26.7
70°-80°	1497.0	11.2
80°-90°	239.3	1.8
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°	13395.2	100.0
0°-180°	13395.2	100.0

Coefficient of Utilization



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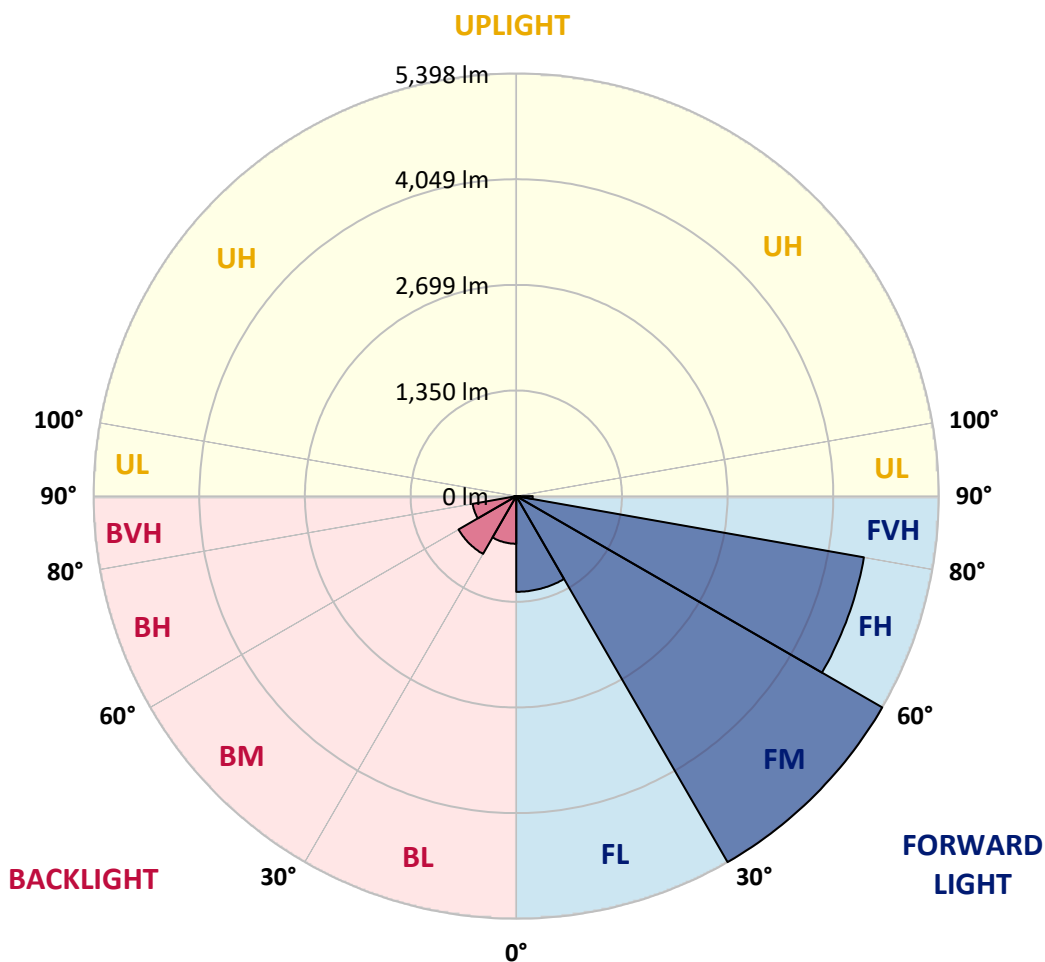
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.3	9.1			
FM (30°-60°)	5398.2	40.3			
FH (60°-80°)	4509.2	33.7			G2/5000
FVH (80°-90°)	211.2	1.6			G2/225
BL (0°-30°)	608.4	4.5	B2/1000		
BM (30°-60°)	851.4	6.4	B1/1000		
BH (60°-80°)	566.4	4.2	B2/1000		G2/1000
BVH (80°-90°)	28.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3783.0	3789.0	3789.0	3801.0	3760.3	3779.9	3776.9	3758.8	3764.9	3733.2	3701.6
5°	3675.9	3671.4	3695.5	3698.6	3730.2	3739.2	3746.8	3734.7	3737.7	3668.4	3638.3
7.5°	3401.6	3400.1	3440.8	3475.5	3541.8	3603.6	3644.3	3632.2	3648.8	3605.1	3534.3
10°	3076.1	3110.8	3153.0	3187.6	3309.7	3388.1	3493.6	3504.1	3567.4	3556.9	3428.8
12.5°	2831.9	2847.0	2878.7	2978.1	3089.7	3219.3	3370.0	3383.6	3445.3	3475.5	3364.0
15°	2631.5	2645.1	2685.7	2759.6	2884.7	3038.4	3229.8	3264.5	3388.1	3398.6	3279.6
17.5°	2485.3	2495.8	2523.0	2596.8	2699.3	2896.7	3077.6	3139.4	3302.2	3353.4	3192.1
20°	2428.0	2405.4	2420.5	2467.2	2569.7	2721.9	2955.5	3009.8	3217.8	3318.7	3109.3
22.5°	2402.4	2382.8	2391.9	2388.8	2470.2	2578.7	2824.4	2881.7	3137.9	3278.1	3035.4
25°	2422.0	2422.0	2413.0	2405.4	2414.5	2485.3	2682.7	2771.7	3030.9	3243.4	2960.0
27.5°	2527.5	2486.8	2491.3	2459.7	2450.6	2450.6	2619.4	2672.2	2996.2	3223.8	2898.3
30°	2595.3	2614.9	2616.4	2569.7	2523.0	2438.6	2560.7	2611.9	2967.6	3247.9	2862.1
32.5°	2768.6	2759.6	2734.0	2724.9	2655.6	2560.7	2589.3	2624.0	2951.0	3302.2	2872.6
35°	2942.0	2937.4	2938.9	2934.4	2862.1	2721.9	2666.2	2712.9	2981.1	3397.1	2908.8
37.5°	3121.3	3133.4	3184.6	3184.6	3107.7	2955.5	2881.7	2868.1	3091.2	3552.4	2994.7
40°	3300.7	3330.8	3395.6	3498.1	3389.6	3247.9	3128.8	3107.7	3223.8	3760.3	3201.2
42.5°	3472.5	3522.2	3650.3	3802.5	3766.4	3624.7	3466.4	3442.3	3496.6	4069.3	3489.1
45°	3692.5	3734.7	3936.7	4170.3	4220.0	4094.9	3909.6	3890.0	3886.9	4521.5	3885.4
47.5°	4027.1	4072.3	4274.3	4509.4	4663.1	4682.7	4474.7	4453.6	4381.3	5131.9	4465.7
50°	4446.1	4519.9	4690.3	4964.6	5187.6	5397.1	5338.3	5276.5	5134.9	5841.7	5201.2
52.5°	4752.0	4842.5	5073.1	5424.2	5817.6	6150.7	6361.7	6361.7	6036.1	6620.9	6085.9
55°	4833.4	4887.7	5178.6	5686.5	6360.2	7202.7	7644.3	7611.1	7109.2	7440.8	7115.3
57.5°	4509.4	4580.2	4932.9	5464.9	6645.0	8186.8	8917.8	8925.4	8281.8	8393.3	8131.1
60°	3617.2	3639.8	4055.7	4767.1	6370.7	8979.6	10657.1	10685.7	9615.6	9241.9	8648.0
62.5°	2500.4	2572.7	2886.2	3510.2	5278.0	8890.7	12334.5	12476.2	10684.2	9689.5	8729.4
65°	1645.8	1689.5	1856.8	2236.6	3674.4	7706.1	12856.0	13293.1	11501.1	9715.1	8388.8
67.5°	1193.7	1201.2	1250.9	1446.9	2208.0	5541.8	11965.3	12581.7	11807.0	9501.1	7590.0
70°	964.6	970.6	988.7	1113.8	1425.8	3468.0	9758.8	10724.9	10889.2	8486.8	6113.0
72.5°	783.7	791.3	813.9	931.4	1175.6	1929.2	7136.4	8313.4	8857.5	6278.8	4063.3
75°	616.4	622.5	676.7	792.8	1104.7	1324.8	4734.0	5886.9	5960.8	3669.9	1902.0
77.5°	422.0	432.6	498.9	672.2	1039.9	1159.0	2951.0	3770.9	3383.6	1436.3	654.1
80°	268.3	283.3	322.5	509.4	919.4	1106.2	1835.7	2251.7	1481.5	491.3	315.0
82.5°	158.3	173.3	212.5	330.1	721.9	1026.4	1293.1	1409.2	694.8	251.7	189.9
85°	87.4	98.0	128.1	198.9	423.5	911.8	1035.4	1011.3	397.9	134.1	119.1
87.5°	28.6	33.2	46.7	79.9	174.8	429.5	620.9	583.3	206.5	61.8	46.7
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°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3680.5	3675.9	3608.1	3556.9	3469.5	3397.1	3368.5	3329.3	3327.8	3299.2	3291.6
5°	3591.5	3544.8	3440.8	3341.4	3186.1	3082.1	2987.2	2920.9	2893.7	2835.0	2821.4
7.5°	3477.0	3415.2	3255.4	3068.6	2886.2	2723.4	2575.7	2428.0	2345.1	2316.5	2284.8
10°	3357.9	3249.4	3012.8	2803.3	2548.6	2298.4	2066.3	1858.3	1745.3	1665.4	1630.7
12.5°	3263.0	3118.3	2816.9	2503.4	2167.3	1832.7	1562.9	1344.4	1216.3	1156.0	1128.9
15°	3156.0	2964.6	2602.9	2206.5	1787.5	1407.7	1143.9	972.1	920.9	892.2	887.7
17.5°	3042.9	2821.4	2370.7	1914.1	1416.7	1059.5	889.2	819.9	797.3	785.2	779.2
20°	2937.4	2693.3	2132.6	1588.5	1109.3	850.0	770.2	734.0	732.5	738.5	737.0
22.5°	2788.2	2526.0	1897.5	1287.1	886.2	740.0	688.8	679.7	688.8	696.3	699.3
25°	2703.8	2388.8	1635.3	1021.8	732.5	657.1	640.5	637.5	651.1	660.1	658.6
27.5°	2616.4	2247.2	1391.1	818.4	642.0	598.3	595.3	598.3	611.9	625.5	624.0
30°	2548.6	2134.1	1162.0	684.2	572.7	556.1	553.1	556.1	563.7	565.2	565.2
32.5°	2492.8	2000.0	967.6	593.8	530.5	517.0	520.0	518.5	520.0	521.5	523.0
35°	2459.7	1920.1	807.8	538.1	495.9	485.3	483.8	479.3	480.8	482.3	480.8
37.5°	2530.5	1880.9	681.2	498.9	471.7	462.7	459.7	456.7	452.1	452.1	452.1
40°	2637.5	1859.8	604.4	473.2	453.7	443.1	434.1	431.0	431.0	432.6	434.1
42.5°	2850.0	1894.5	551.6	453.7	431.0	419.0	409.9	411.5	416.0	420.5	417.5
45°	3157.5	2000.0	527.5	438.6	417.5	400.9	394.9	393.4	397.9	405.4	411.5
47.5°	3559.9	2164.3	518.5	425.0	408.4	385.8	378.3	382.8	388.8	399.4	394.9
50°	4218.5	2533.5	526.0	413.0	394.9	378.3	369.3	364.7	369.3	376.8	379.8
52.5°	5079.1	3204.2	554.6	406.9	385.8	372.3	357.2	349.7	354.2	360.2	360.2
55°	6108.5	4120.6	634.5	399.4	370.8	363.2	346.6	331.6	334.6	334.6	333.1
57.5°	7015.8	4812.3	729.5	388.8	361.7	351.2	330.1	312.0	309.0	310.5	312.0
60°	7422.7	4996.2	774.7	385.8	361.7	336.1	307.5	289.4	284.9	281.8	281.8
62.5°	7351.9	4678.2	682.7	372.3	370.8	324.0	286.4	266.8	260.7	254.7	256.2
65°	6923.9	4224.5	538.1	354.2	372.3	316.5	265.3	245.7	235.1	227.6	226.1
67.5°	6141.6	3606.6	426.5	340.6	357.2	302.9	247.2	224.6	215.5	208.0	205.0
70°	4804.8	2827.4	370.8	322.5	321.0	269.8	226.1	206.5	192.9	183.9	183.9
72.5°	3115.3	1787.5	318.0	286.4	277.3	226.1	195.9	183.9	173.3	165.8	165.8
75°	1410.7	830.4	256.2	239.6	226.1	180.9	165.8	159.8	150.7	143.2	143.2
77.5°	506.4	354.2	191.4	188.4	168.8	140.2	134.1	129.6	123.6	116.1	116.1
80°	283.3	224.6	143.2	137.2	117.6	104.0	96.5	96.5	93.4	88.9	87.4
82.5°	179.4	146.2	105.5	91.9	76.9	69.3	66.3	64.8	63.3	57.3	55.8
85°	113.0	99.5	69.3	54.3	45.2	34.7	33.2	31.7	28.6	25.6	25.6
87.5°	51.2	57.3	27.1	16.6	12.1	7.5	4.5	1.5	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)