

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: P480339

Luminaire Tested: **IFLD-S-SA2E-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480339
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

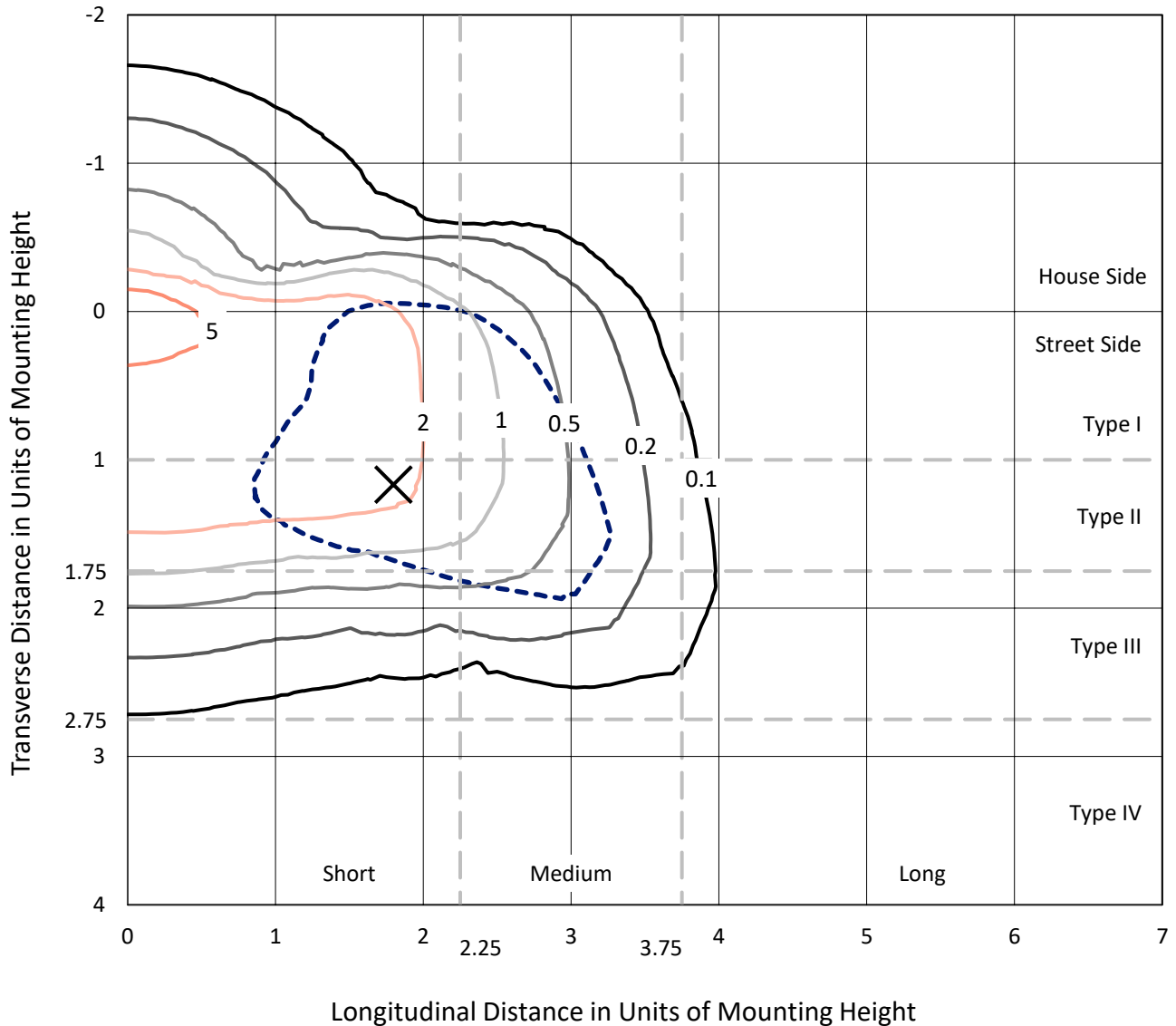
Lumens per Lamp: N/A
Luminaire Lumens: 13155 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

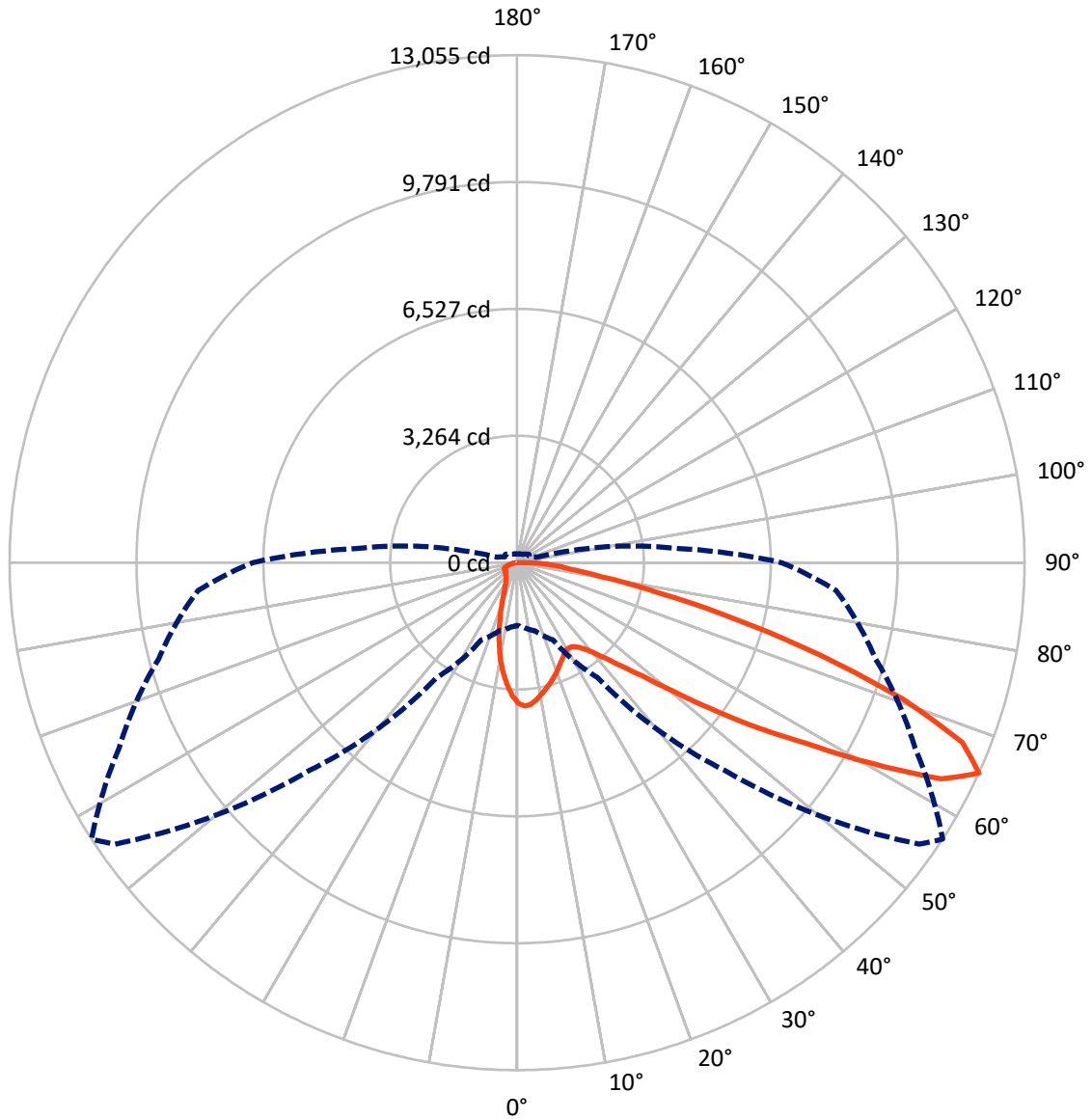
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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	2017.4	0.0	2017.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11137.6	0.0	11137.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	13155.0	0.0	13155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.9	2.3
10°-20°	652.0	5.0
20°-30°	842.9	6.4
30°-40°	1134.3	8.6
40°-50°	1808.7	13.7
50°-60°	3194.6	24.3
60°-70°	3514.5	26.7
70°-80°	1470.2	11.2
80°-90°	235.0	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°	13155.0	100.0
0°-180°	13155.0	100.0

Coefficient of Utilization



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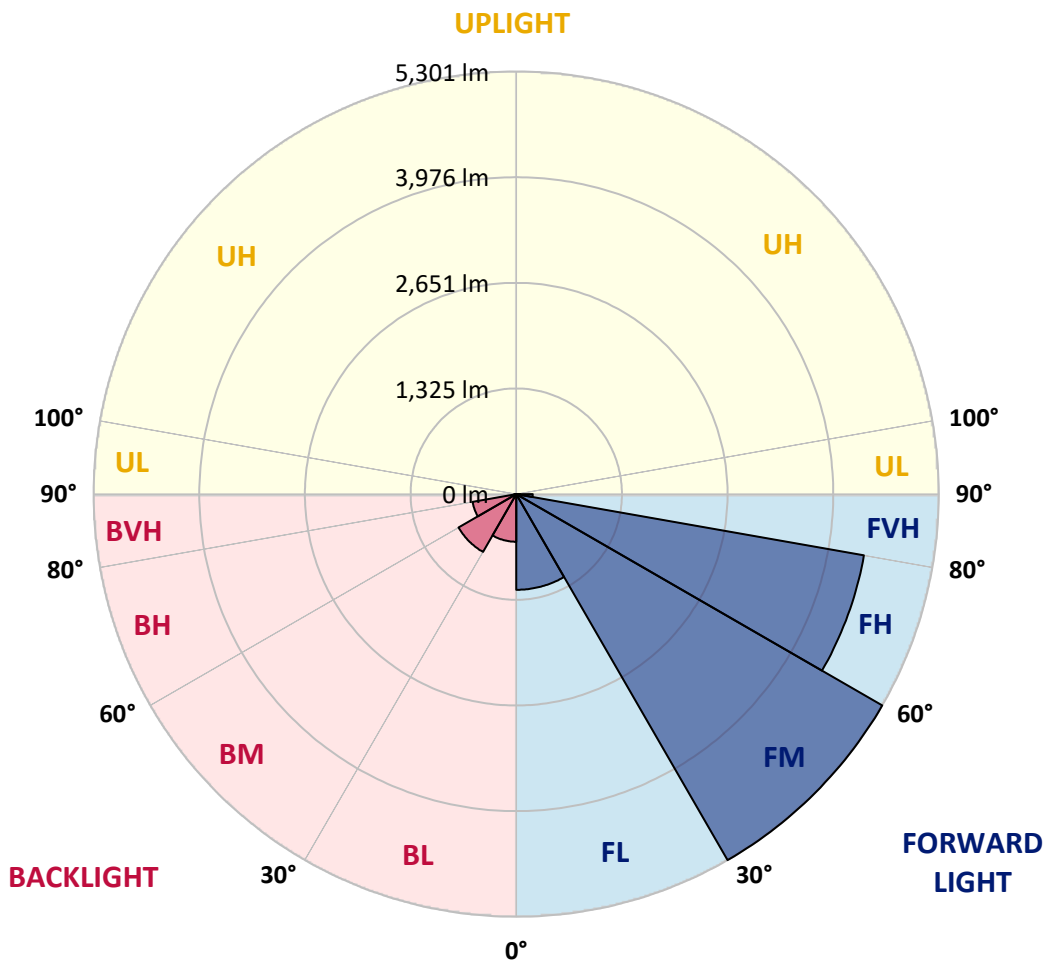
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1200.3	9.1			
FM (30°-60°)	5301.5	40.3			
FH (60°-80°)	4428.4	33.7			G2/5000
FVH (80°-90°)	207.4	1.6			G2/225
BL (0°-30°)	597.5	4.5	B2/1000		
BM (30°-60°)	836.1	6.4	B1/1000		
BH (60°-80°)	556.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	27.6	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°	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4
2.5°	3715.1	3721.1	3721.1	3732.9	3692.9	3712.2	3709.2	3691.5	3697.4	3666.3	3635.2
5°	3610.0	3605.6	3629.3	3632.2	3663.3	3672.2	3679.6	3667.8	3670.7	3602.6	3573.0
7.5°	3340.7	3339.2	3379.1	3413.2	3478.3	3539.0	3579.0	3567.1	3583.4	3540.5	3470.9
10°	3021.0	3055.0	3096.4	3130.5	3250.4	3327.3	3430.9	3441.3	3503.5	3493.1	3367.3
12.5°	2781.2	2796.0	2827.1	2924.7	3034.3	3161.6	3309.6	3322.9	3383.6	3413.2	3303.7
15°	2584.3	2597.6	2637.6	2710.1	2833.0	2983.9	3171.9	3206.0	3327.3	3337.7	3220.8
17.5°	2440.7	2451.1	2477.7	2550.3	2650.9	2844.8	3022.4	3083.1	3243.0	3293.3	3134.9
20°	2384.5	2362.3	2377.1	2423.0	2523.6	2673.1	2902.5	2955.8	3160.1	3259.3	3053.5
22.5°	2359.3	2340.1	2349.0	2346.0	2425.9	2532.5	2773.8	2830.0	3081.6	3219.3	2981.0
25°	2378.6	2378.6	2369.7	2362.3	2371.2	2440.7	2634.6	2722.0	2976.5	3185.2	2907.0
27.5°	2482.2	2442.2	2446.7	2415.6	2406.7	2406.7	2572.5	2624.3	2942.5	3166.0	2846.3
30°	2548.8	2568.0	2569.5	2523.6	2477.7	2394.9	2514.7	2565.1	2914.4	3189.7	2810.8
32.5°	2719.0	2710.1	2685.0	2676.1	2608.0	2514.7	2542.9	2576.9	2898.1	3243.0	2821.1
35°	2889.2	2884.8	2886.3	2881.8	2810.8	2673.1	2618.4	2664.2	2927.7	3336.2	2856.7
37.5°	3065.4	3077.2	3127.5	3127.5	3052.0	2902.5	2830.0	2816.7	3035.8	3488.7	2941.0
40°	3241.5	3271.1	3334.7	3435.4	3328.8	3189.7	3072.8	3052.0	3166.0	3692.9	3143.8
42.5°	3410.2	3459.1	3584.9	3734.4	3698.9	3559.7	3404.3	3380.6	3433.9	3996.4	3426.5
45°	3626.3	3667.8	3866.1	4095.5	4144.4	4021.5	3839.5	3820.2	3817.3	4440.4	3815.8
47.5°	3954.9	3999.3	4197.7	4428.6	4579.5	4598.8	4394.5	4373.8	4302.7	5039.9	4385.6
50°	4366.4	4438.9	4606.2	4875.6	5094.6	5300.4	5242.6	5181.9	5042.8	5737.0	5107.9
52.5°	4666.9	4755.7	4982.1	5327.0	5713.3	6040.4	6247.6	6247.6	5927.9	6502.2	5976.8
55°	4746.8	4800.1	5085.7	5584.5	6246.2	7073.6	7507.2	7474.7	6981.8	7307.4	6987.7
57.5°	4428.6	4498.1	4844.5	5367.0	6525.9	8040.1	8757.9	8765.3	8133.3	8242.9	7985.3
60°	3552.3	3574.5	3983.0	4681.7	6256.5	8818.6	10466.0	10494.1	9443.2	9076.2	8493.0
62.5°	2455.5	2526.6	2834.5	3447.2	5183.4	8731.3	12113.4	12252.5	10492.7	9515.8	8572.9
65°	1616.3	1659.2	1823.5	2196.5	3608.6	7567.9	12625.5	13054.8	11294.9	9540.9	8238.4
67.5°	1172.3	1179.7	1228.5	1420.9	2168.4	5442.4	11750.8	12356.1	11595.4	9330.8	7453.9
70°	947.3	953.2	971.0	1093.8	1400.2	3405.8	9583.9	10532.6	10694.0	8334.6	6003.4
72.5°	769.7	777.1	799.3	914.7	1154.5	1894.6	7008.4	8164.4	8698.7	6166.2	3990.4
75°	605.4	611.3	664.6	778.5	1084.9	1301.0	4649.1	5781.4	5853.9	3604.1	1867.9
77.5°	414.4	424.8	489.9	660.1	1021.3	1138.2	2898.1	3703.3	3322.9	1410.6	642.4
80°	263.5	278.3	316.7	500.3	902.9	1086.4	1802.8	2211.3	1455.0	482.5	309.3
82.5°	155.4	170.2	208.7	324.1	709.0	1008.0	1270.0	1383.9	682.3	247.2	186.5
85°	85.8	96.2	125.8	195.4	415.9	895.5	1016.9	993.2	390.8	131.7	116.9
87.5°	28.1	32.6	45.9	78.4	171.7	421.8	609.8	572.8	202.8	60.7	45.9
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°	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4
2.5°	3614.5	3610.0	3543.4	3493.1	3407.3	3336.2	3308.1	3269.6	3268.1	3240.0	3232.6
5°	3527.2	3481.3	3379.1	3281.5	3129.0	3026.9	2933.6	2868.5	2841.9	2784.1	2770.8
7.5°	3414.7	3354.0	3197.1	3013.6	2834.5	2674.6	2529.5	2384.5	2303.1	2275.0	2243.9
10°	3297.7	3191.2	2958.8	2753.0	2502.9	2257.2	2029.3	1825.0	1714.0	1635.5	1601.5
12.5°	3204.5	3062.4	2766.4	2458.5	2128.4	1799.8	1534.9	1320.3	1194.5	1135.3	1108.6
15°	3099.4	2911.4	2556.2	2166.9	1755.4	1382.4	1123.4	954.7	904.4	876.2	871.8
17.5°	2988.4	2770.8	2328.2	1879.8	1391.3	1040.5	873.3	805.2	783.0	771.1	765.2
20°	2884.8	2645.0	2094.4	1560.1	1089.4	834.8	756.3	720.8	719.3	725.3	723.8
22.5°	2738.2	2480.7	1863.5	1264.0	870.3	726.7	676.4	667.5	676.4	683.8	686.8
25°	2655.4	2346.0	1605.9	1003.5	719.3	645.3	629.1	626.1	639.4	648.3	646.8
27.5°	2569.5	2206.9	1366.2	803.7	630.5	587.6	584.7	587.6	600.9	614.3	612.8
30°	2502.9	2095.9	1141.2	672.0	562.5	546.2	543.2	546.2	553.6	555.0	555.0
32.5°	2448.1	1964.1	950.2	583.2	521.0	507.7	510.6	509.2	510.6	512.1	513.6
35°	2415.6	1885.7	793.4	528.4	487.0	476.6	475.1	470.7	472.2	473.6	472.2
37.5°	2485.1	1847.2	669.0	489.9	463.3	454.4	451.4	448.5	444.0	444.0	444.0
40°	2590.2	1826.5	593.5	464.8	445.5	435.2	426.3	423.3	423.3	424.8	426.3
42.5°	2798.9	1860.5	541.7	445.5	423.3	411.5	402.6	404.1	408.5	413.0	410.0
45°	3100.9	1964.1	518.0	430.7	410.0	393.7	387.8	386.3	390.8	398.2	404.1
47.5°	3496.1	2125.5	509.2	417.4	401.1	378.9	371.5	376.0	381.9	392.2	387.8
50°	4142.9	2488.1	516.6	405.6	387.8	371.5	362.6	358.2	362.6	370.0	373.0
52.5°	4988.0	3146.8	544.7	399.6	378.9	365.6	350.8	343.4	347.8	353.8	353.8
55°	5999.0	4046.7	623.1	392.2	364.1	356.7	340.4	325.6	328.6	328.6	327.1
57.5°	6890.0	4726.1	716.4	381.9	355.2	344.9	324.1	306.4	303.4	304.9	306.4
60°	7289.7	4906.6	760.8	378.9	355.2	330.1	301.9	284.2	279.7	276.8	276.8
62.5°	7220.1	4594.3	670.5	365.6	364.1	318.2	281.2	262.0	256.1	250.1	251.6
65°	6799.7	4148.8	528.4	347.8	365.6	310.8	260.5	241.3	230.9	223.5	222.0
67.5°	6031.5	3542.0	418.9	334.5	350.8	297.5	242.7	220.5	211.7	204.3	201.3
70°	4718.7	2776.7	364.1	316.7	315.3	264.9	222.0	202.8	189.5	180.6	180.6
72.5°	3059.4	1755.4	312.3	281.2	272.3	222.0	192.4	180.6	170.2	162.8	162.8
75°	1385.4	815.6	251.6	235.3	222.0	177.6	162.8	156.9	148.0	140.6	140.6
77.5°	497.3	347.8	188.0	185.0	165.8	137.7	131.7	127.3	121.4	114.0	114.0
80°	278.3	220.5	140.6	134.7	115.5	102.1	94.7	94.7	91.8	87.3	85.8
82.5°	176.1	143.6	103.6	90.3	75.5	68.1	65.1	63.6	62.2	56.2	54.8
85°	111.0	97.7	68.1	53.3	44.4	34.0	32.6	31.1	28.1	25.2	25.2
87.5°	50.3	56.2	26.6	16.3	11.8	7.4	4.4	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)