

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: P480493

Luminaire Tested: **IFLD-S-SA2C-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480493
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

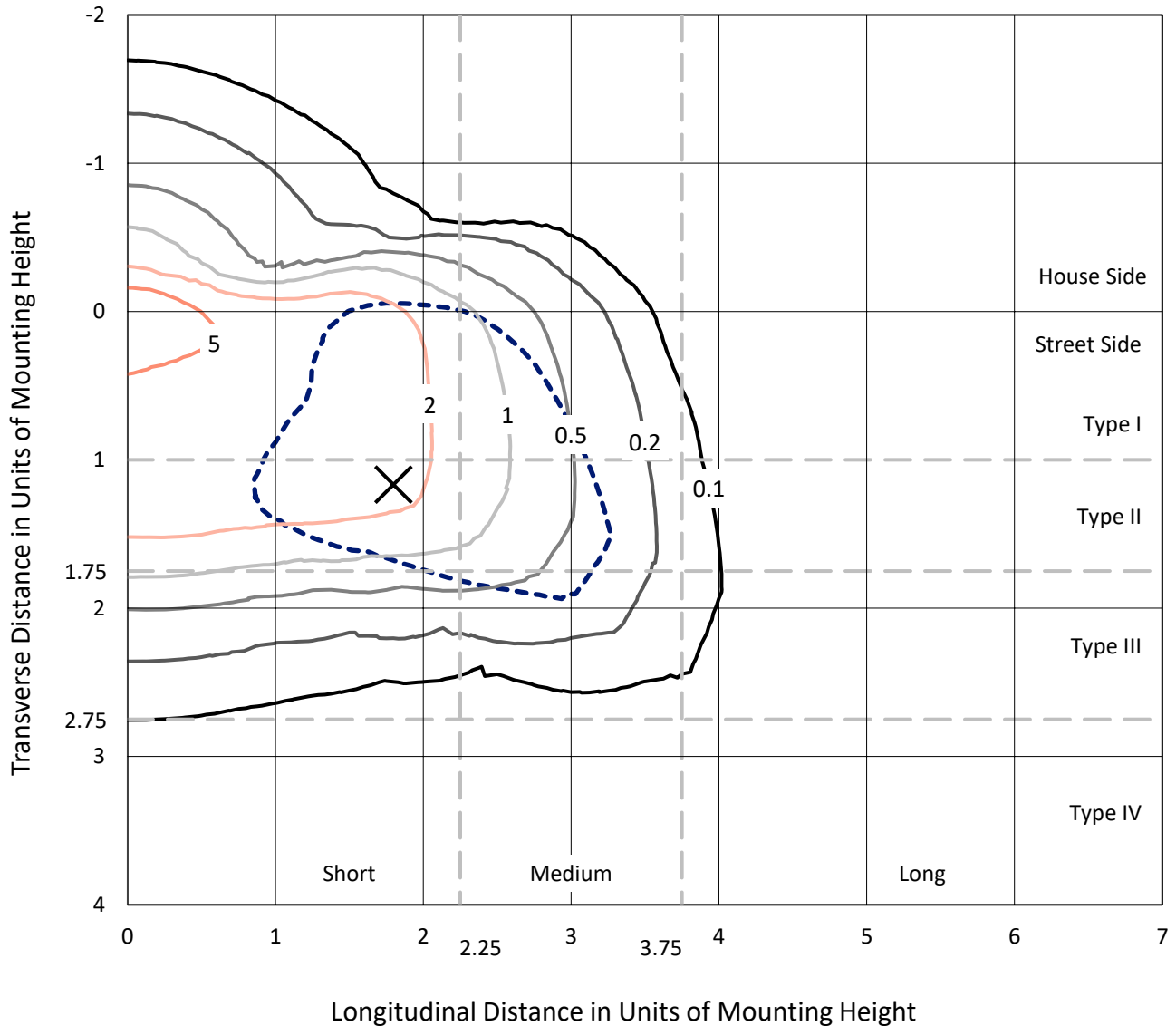
Lumens per Lamp: N/A
Luminaire Lumens: 14024.7 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

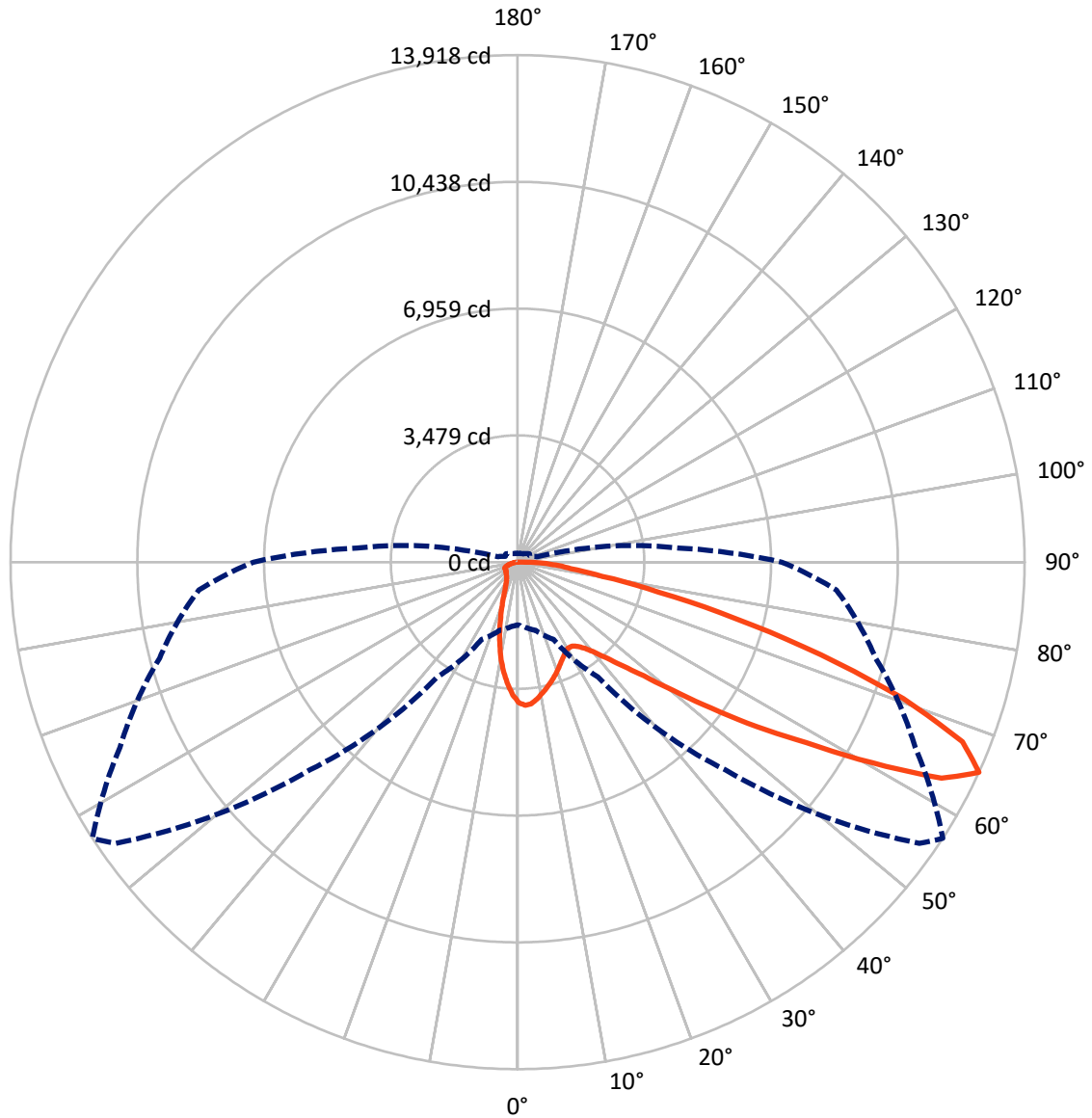
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 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	2150.8	0.0	2150.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11873.9	0.0	11873.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	14024.7	0.0	14024.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	2.3
10°-20°	695.1	5.0
20°-30°	898.7	6.4
30°-40°	1209.3	8.6
40°-50°	1928.3	13.7
50°-60°	3405.8	24.3
60°-70°	3746.8	26.7
70°-80°	1567.4	11.2
80°-90°	250.5	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°	14024.7	100.0
0°-180°	14024.7	100.0

Coefficient of Utilization



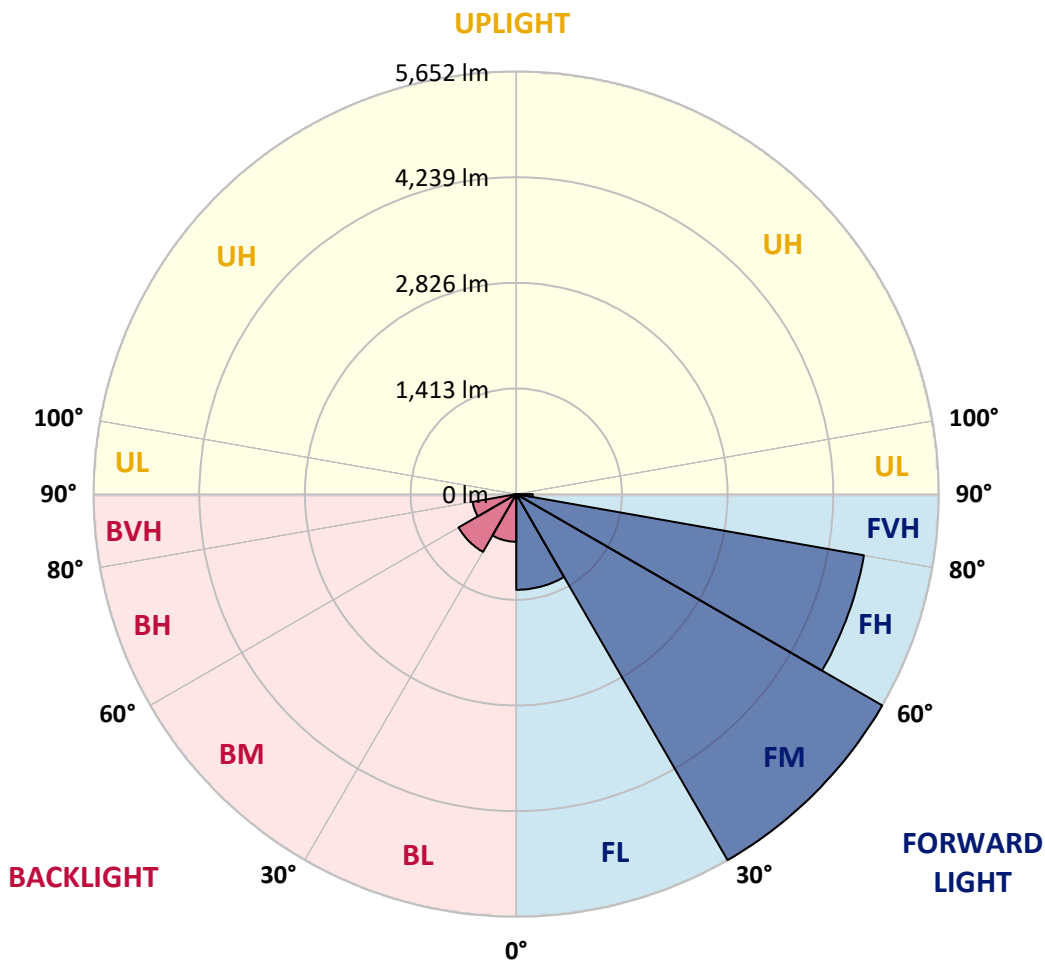
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.7	9.1			
FM (30°-60°)	5651.9	40.3			
FH (60°-80°)	4721.1	33.7			G2/5000
FVH (80°-90°)	221.1	1.6			G2/225
BL (0°-30°)	637.0	4.5	B2/1000		
BM (30°-60°)	891.4	6.4	B1/1000		
BH (60°-80°)	593.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.4	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°	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6
2.5°	3960.7	3967.1	3967.1	3979.7	3937.1	3957.6	3954.4	3935.5	3941.8	3908.7	3875.5
5°	3848.7	3844.0	3869.2	3872.4	3905.5	3915.0	3922.9	3910.3	3913.4	3840.8	3809.3
7.5°	3561.5	3559.9	3602.5	3638.8	3708.3	3773.0	3815.6	3803.0	3820.3	3774.5	3700.4
10°	3220.7	3257.0	3301.2	3337.4	3465.3	3547.3	3657.8	3668.8	3735.1	3724.1	3589.9
12.5°	2965.0	2980.8	3014.0	3118.1	3234.9	3370.6	3528.4	3542.6	3607.3	3638.8	3522.1
15°	2755.2	2769.4	2812.0	2889.3	3020.3	3181.2	3381.6	3417.9	3547.3	3558.4	3433.7
17.5°	2602.1	2613.1	2641.6	2718.9	2826.2	3032.9	3222.3	3286.9	3457.4	3511.0	3342.2
20°	2542.1	2518.5	2534.2	2583.2	2690.5	2849.8	3094.4	3151.2	3369.0	3474.7	3255.4
22.5°	2515.3	2494.8	2504.3	2501.1	2586.3	2699.9	2957.1	3017.1	3285.4	3432.1	3178.1
25°	2535.8	2535.8	2526.4	2518.5	2527.9	2602.1	2808.8	2901.9	3173.3	3395.8	3099.2
27.5°	2646.3	2603.7	2608.4	2575.3	2565.8	2565.8	2742.5	2797.8	3137.0	3375.3	3034.5
30°	2717.3	2737.8	2739.4	2690.5	2641.6	2553.2	2681.0	2734.7	3107.1	3400.6	2996.6
32.5°	2898.8	2889.3	2862.5	2853.0	2780.4	2681.0	2711.0	2747.3	3089.7	3457.4	3007.6
35°	3080.2	3075.5	3077.1	3072.3	2996.6	2849.8	2791.5	2840.4	3121.3	3556.8	3045.5
37.5°	3268.0	3280.6	3334.3	3334.3	3253.8	3094.4	3017.1	3002.9	3236.5	3719.3	3135.5
40°	3455.8	3487.4	3555.2	3662.5	3548.9	3400.6	3275.9	3253.8	3375.3	3937.1	3351.6
42.5°	3635.7	3687.8	3821.9	3981.3	3943.4	3795.1	3629.4	3604.1	3660.9	4260.6	3653.0
45°	3866.1	3910.3	4121.7	4366.3	4418.4	4287.4	4093.3	4072.8	4069.6	4734.0	4068.1
47.5°	4216.4	4263.7	4475.2	4721.3	4882.3	4902.8	4685.0	4663.0	4587.2	5373.0	4675.6
50°	4655.1	4732.4	4910.7	5197.9	5431.4	5650.8	5589.2	5524.5	5376.2	6116.3	5445.6
52.5°	4975.4	5070.1	5311.5	5679.2	6091.0	6439.8	6660.7	6660.7	6319.8	6932.1	6371.9
55°	5060.6	5117.4	5422.0	5953.7	6659.1	7541.2	8003.6	7968.8	7443.4	7790.5	7449.7
57.5°	4721.3	4795.5	5164.8	5721.8	6957.3	8571.6	9337.0	9344.8	8671.0	8787.8	8513.2
60°	3787.2	3810.8	4246.4	4991.2	6670.2	9401.7	11158.0	11187.9	10067.6	9676.2	9054.5
62.5°	2617.9	2693.6	3021.8	3675.1	5526.1	9308.5	12914.3	13062.6	11186.4	10144.9	9139.7
65°	1723.2	1768.9	1944.1	2341.7	3847.1	8068.3	13460.2	13917.9	12041.6	10171.7	8783.1
67.5°	1249.8	1257.7	1309.7	1514.9	2311.8	5802.3	12527.6	13173.0	12362.0	9947.6	7946.7
70°	1009.9	1016.2	1035.2	1166.1	1492.8	3630.9	10217.5	11229.0	11401.0	8885.6	6400.3
72.5°	820.6	828.4	852.1	975.2	1230.8	2019.8	7471.8	8704.2	9273.8	6573.9	4254.3
75°	645.4	651.7	708.5	830.0	1156.7	1387.1	4956.5	6163.6	6240.9	3842.4	1991.4
77.5°	441.8	452.9	522.3	703.8	1088.8	1213.5	3089.7	3948.1	3542.6	1503.8	684.8
80°	280.9	296.7	337.7	533.4	962.6	1158.2	1922.0	2357.5	1551.2	514.4	329.8
82.5°	165.7	181.5	222.5	345.6	755.9	1074.6	1353.9	1475.4	727.5	263.5	198.8
85°	91.5	102.6	134.1	208.3	443.4	954.7	1084.1	1058.8	416.6	140.4	124.7
87.5°	30.0	34.7	48.9	83.6	183.0	449.7	650.1	610.7	216.2	64.7	48.9
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°	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6	3856.6
2.5°	3853.4	3848.7	3777.7	3724.1	3632.5	3556.8	3526.8	3485.8	3484.2	3454.2	3446.3
5°	3760.3	3711.4	3602.5	3498.4	3335.9	3227.0	3127.6	3058.1	3029.7	2968.2	2954.0
7.5°	3640.4	3575.7	3408.5	3212.8	3021.8	2851.4	2696.8	2542.1	2455.3	2425.4	2392.2
10°	3515.8	3402.1	3154.4	2935.1	2668.4	2406.4	2163.4	1945.7	1827.3	1743.7	1707.4
12.5°	3416.3	3264.9	2949.3	2621.0	2269.1	1918.8	1636.4	1407.6	1273.4	1210.3	1181.9
15°	3304.3	3103.9	2725.2	2310.2	1871.5	1473.8	1197.7	1017.8	964.2	934.2	929.4
17.5°	3186.0	2954.0	2482.2	2004.0	1483.3	1109.3	931.0	858.4	834.8	822.1	815.8
20°	3075.5	2819.9	2232.9	1663.2	1161.4	890.0	806.4	768.5	766.9	773.2	771.6
22.5°	2919.3	2644.7	1986.7	1347.6	927.9	774.8	721.1	711.7	721.1	729.0	732.2
25°	2830.9	2501.1	1712.1	1069.9	766.9	688.0	670.6	667.5	681.7	691.2	689.6
27.5°	2739.4	2352.8	1456.5	856.8	672.2	626.5	623.3	626.5	640.7	654.9	653.3
30°	2668.4	2234.4	1216.6	716.4	599.6	582.3	579.1	582.3	590.2	591.7	591.7
32.5°	2610.0	2094.0	1013.1	621.7	555.5	541.2	544.4	542.8	544.4	546.0	547.6
35°	2575.3	2010.4	845.8	563.3	519.2	508.1	506.5	501.8	503.4	505.0	503.4
37.5°	2649.4	1969.3	713.3	522.3	493.9	484.4	481.3	478.1	473.4	473.4	473.4
40°	2761.5	1947.2	632.8	495.5	475.0	463.9	454.5	451.3	451.3	452.9	454.5
42.5°	2984.0	1983.5	577.5	475.0	451.3	438.7	429.2	430.8	435.5	440.3	437.1
45°	3305.9	2094.0	552.3	459.2	437.1	419.7	413.4	411.9	416.6	424.5	430.8
47.5°	3727.2	2266.0	542.8	445.0	427.6	404.0	396.1	400.8	407.1	418.2	413.4
50°	4416.8	2652.6	550.7	432.4	413.4	396.1	386.6	381.9	386.6	394.5	397.7
52.5°	5317.8	3354.8	580.7	426.1	404.0	389.8	374.0	366.1	370.8	377.1	377.1
55°	6395.6	4314.2	664.3	418.2	388.2	380.3	362.9	347.2	350.3	350.3	348.7
57.5°	7345.5	5038.5	763.7	407.1	378.7	367.7	345.6	326.6	323.5	325.1	326.6
60°	7771.6	5231.0	811.1	404.0	378.7	351.9	321.9	303.0	298.2	295.1	295.1
62.5°	7697.4	4898.1	714.8	389.8	388.2	339.3	299.8	279.3	273.0	266.7	268.3
65°	7249.3	4423.1	563.3	370.8	389.8	331.4	277.7	257.2	246.2	238.3	236.7
67.5°	6430.3	3776.1	446.6	356.6	374.0	317.2	258.8	235.1	225.7	217.8	214.6
70°	5030.6	2960.3	388.2	337.7	336.1	282.5	236.7	216.2	202.0	192.5	192.5
72.5°	3261.7	1871.5	333.0	299.8	290.3	236.7	205.1	192.5	181.5	173.6	173.6
75°	1477.0	869.5	268.3	250.9	236.7	189.4	173.6	167.3	157.8	149.9	149.9
77.5°	530.2	370.8	200.4	197.2	176.7	146.8	140.4	135.7	129.4	121.5	121.5
80°	296.7	235.1	149.9	143.6	123.1	108.9	101.0	101.0	97.8	93.1	91.5
82.5°	187.8	153.1	110.5	96.3	80.5	72.6	69.4	67.9	66.3	60.0	58.4
85°	118.3	104.1	72.6	56.8	47.3	36.3	34.7	33.1	30.0	26.8	26.8
87.5°	53.7	60.0	28.4	17.4	12.6	7.9	4.7	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)