

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: P480454

Luminaire Tested: **IFLD-S-SA2C-735-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480454
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

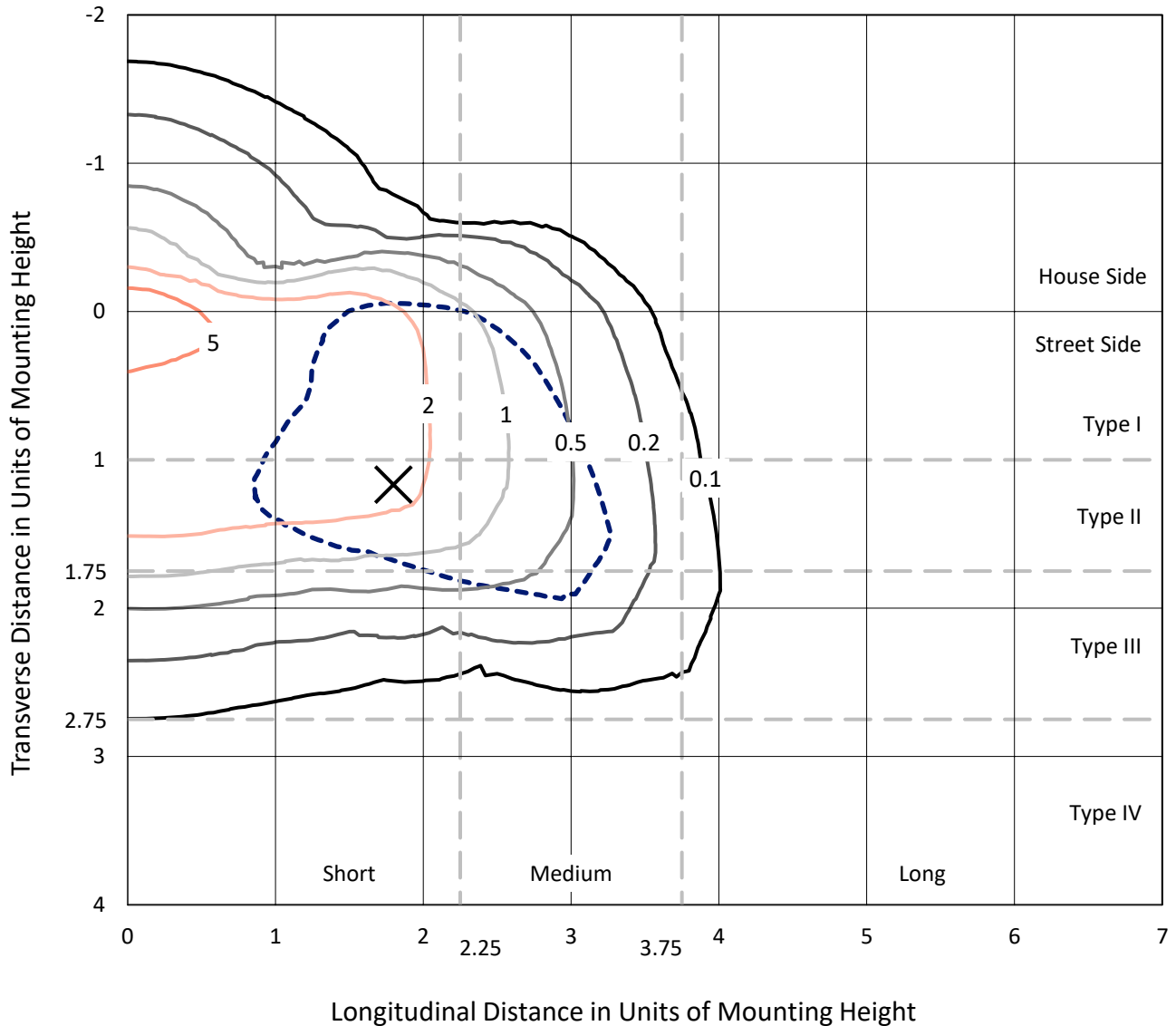
Lumens per Lamp: N/A
Luminaire Lumens: 13832.6 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

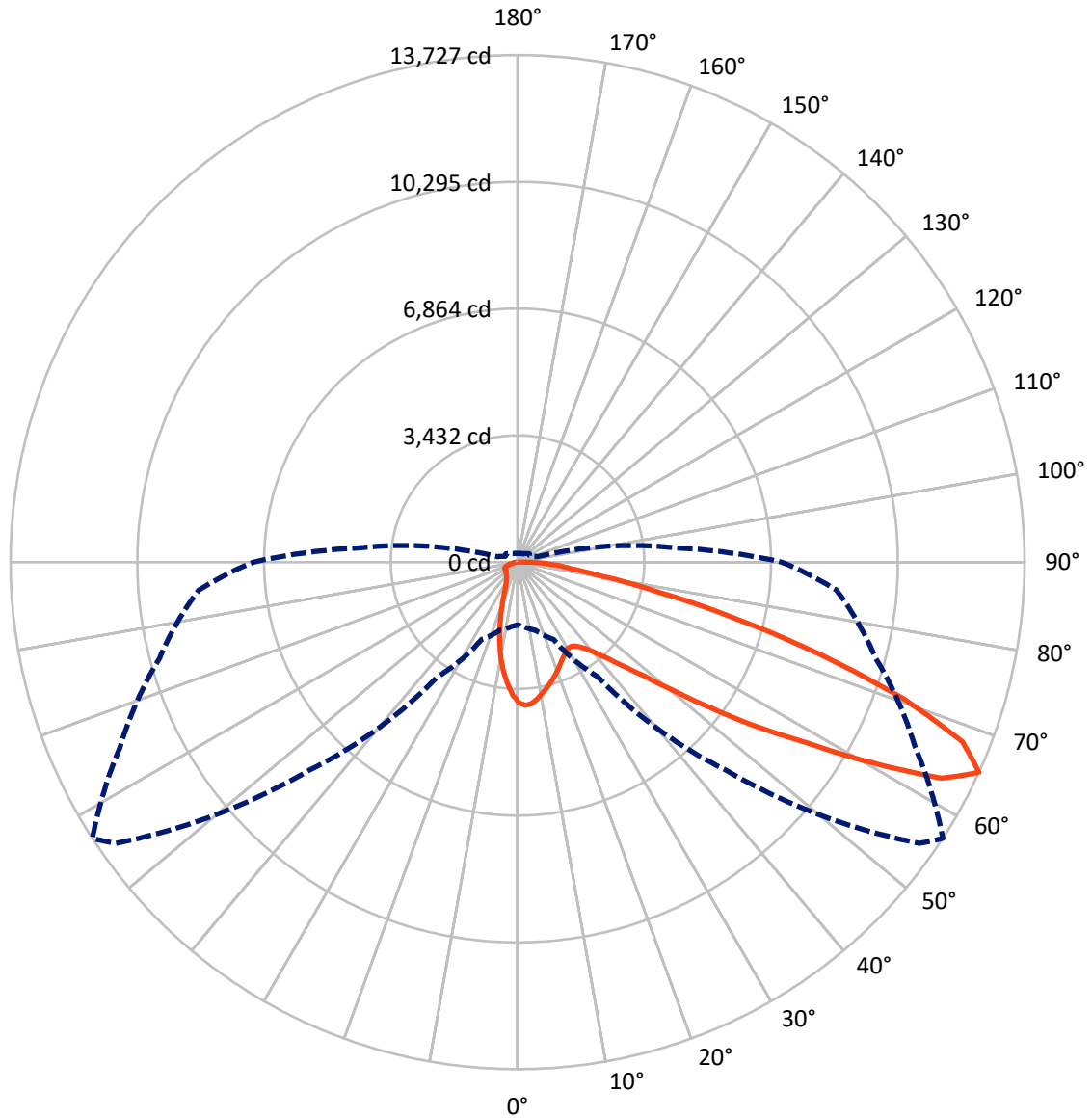
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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	2121.4	0.0	2121.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11711.2	0.0	11711.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	13832.6	0.0	13832.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.5	2.3
10°-20°	685.5	5.0
20°-30°	886.3	6.4
30°-40°	1192.7	8.6
40°-50°	1901.9	13.7
50°-60°	3359.1	24.3
60°-70°	3695.5	26.7
70°-80°	1545.9	11.2
80°-90°	247.1	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°	13832.6	100.0
0°-180°	13832.6	100.0

Coefficient of Utilization



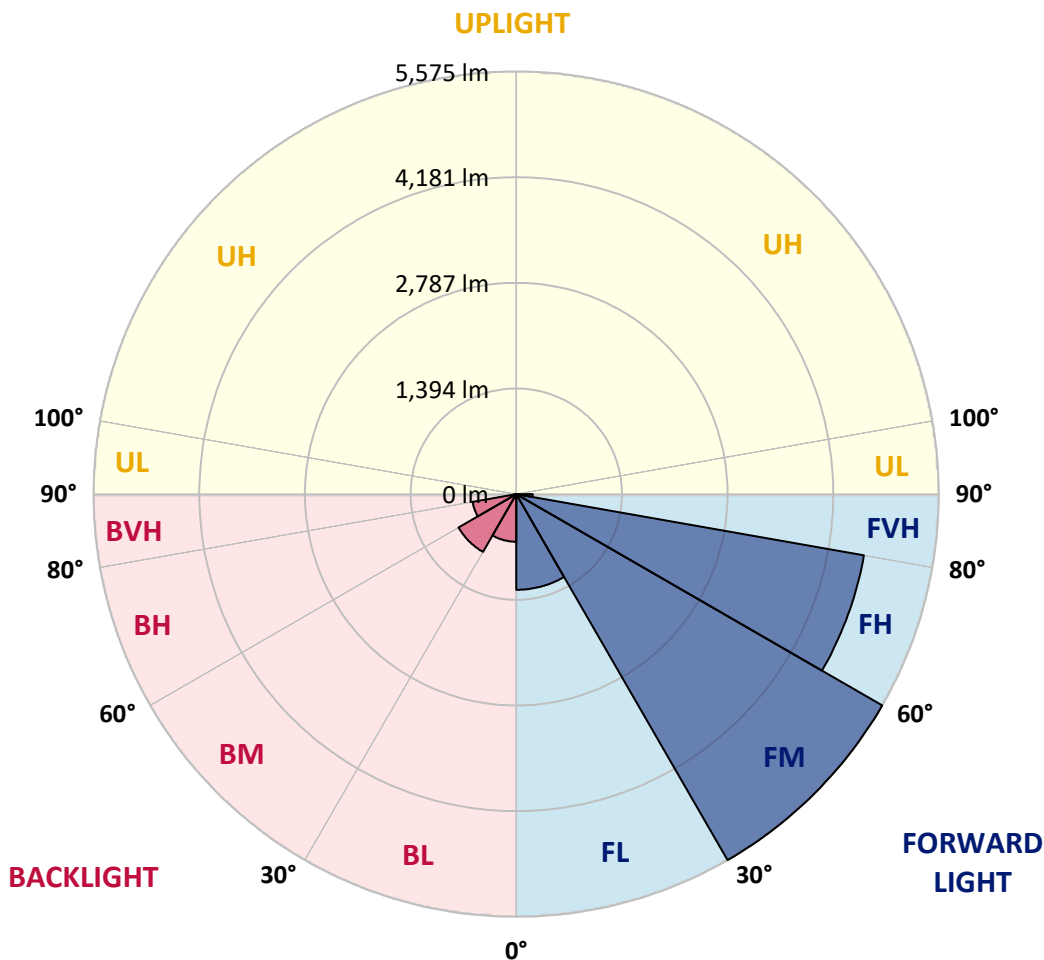
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.2	9.1			
FM (30°-60°)	5574.5	40.3			
FH (60°-80°)	4656.5	33.7			G2/5000
FVH (80°-90°)	218.1	1.6			G2/225
BL (0°-30°)	628.2	4.5	B2/1000		
BM (30°-60°)	879.2	6.4	B1/1000		
BH (60°-80°)	584.9	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.0	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°	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8
2.5°	3906.5	3912.7	3912.7	3925.2	3883.1	3903.4	3900.3	3881.6	3887.8	3855.1	3822.4
5°	3796.0	3791.3	3816.2	3819.3	3852.0	3861.4	3869.1	3856.7	3859.8	3788.2	3757.1
7.5°	3512.7	3511.2	3553.2	3589.0	3657.5	3721.3	3763.3	3750.9	3768.0	3722.8	3649.7
10°	3176.5	3212.3	3255.9	3291.7	3417.8	3498.7	3607.7	3618.6	3683.9	3673.0	3540.7
12.5°	2924.4	2940.0	2972.7	3075.4	3190.6	3324.4	3480.0	3494.0	3557.9	3589.0	3473.8
15°	2717.4	2731.4	2773.5	2849.7	2978.9	3137.6	3335.3	3371.1	3498.7	3509.6	3386.7
17.5°	2566.5	2577.3	2605.4	2681.6	2787.5	2991.3	3178.1	3241.9	3410.0	3462.9	3296.4
20°	2507.3	2484.0	2499.5	2547.8	2653.6	2810.8	3052.0	3108.1	3322.8	3427.1	3210.8
22.5°	2480.9	2460.6	2470.0	2466.8	2550.9	2662.9	2916.6	2975.8	3240.4	3385.1	3134.5
25°	2501.1	2501.1	2491.7	2484.0	2493.3	2566.5	2770.3	2862.2	3129.9	3349.3	3056.7
27.5°	2610.0	2568.0	2572.7	2540.0	2530.7	2530.7	2705.0	2759.4	3094.1	3329.1	2992.9
30°	2680.1	2700.3	2701.9	2653.6	2605.4	2518.2	2644.3	2697.2	3064.5	3354.0	2955.5
32.5°	2859.1	2849.7	2823.3	2813.9	2742.3	2644.3	2673.8	2709.6	3047.4	3410.0	2966.4
35°	3038.0	3033.4	3034.9	3030.3	2955.5	2810.8	2753.2	2801.5	3078.5	3508.1	3003.8
37.5°	3223.2	3235.7	3288.6	3288.6	3209.2	3052.0	2975.8	2961.8	3192.1	3668.4	3092.5
40°	3408.4	3439.6	3506.5	3612.3	3500.3	3354.0	3231.0	3209.2	3329.1	3883.1	3305.7
42.5°	3585.9	3637.2	3769.5	3926.7	3889.4	3743.1	3579.6	3554.7	3610.8	4202.2	3603.0
45°	3813.1	3856.7	4065.2	4306.5	4357.8	4228.7	4037.2	4017.0	4013.9	4669.1	4012.3
47.5°	4158.6	4205.3	4413.9	4656.7	4815.4	4835.6	4620.9	4599.1	4524.4	5299.4	4611.5
50°	4591.3	4667.6	4843.4	5126.7	5357.0	5573.4	5512.7	5448.8	5302.6	6032.5	5371.0
52.5°	4907.2	5000.6	5238.7	5601.4	6007.6	6351.5	6569.4	6569.4	6233.3	6837.1	6284.6
55°	4991.3	5047.3	5347.7	5872.2	6567.9	7437.9	7893.9	7859.7	7341.4	7683.8	7347.6
57.5°	4656.7	4729.8	5094.0	5643.4	6862.0	8454.2	9209.0	9216.8	8552.2	8667.4	8396.6
60°	3735.3	3758.6	4188.2	4922.8	6578.8	9272.8	11005.1	11034.7	9929.6	9543.7	8930.4
62.5°	2582.0	2656.7	2980.4	3624.8	5450.4	9181.0	12737.3	12883.6	11033.1	10005.9	9014.5
65°	1699.6	1744.7	1917.4	2309.7	3794.4	7957.7	13275.8	13727.2	11876.7	10032.4	8662.8
67.5°	1232.6	1240.4	1291.8	1494.1	2280.1	5722.8	12356.0	12992.6	12192.6	9811.4	7837.9
70°	996.1	1002.3	1021.0	1150.2	1472.3	3581.2	10077.5	11075.1	11244.8	8763.9	6312.6
72.5°	809.3	817.1	840.4	961.8	1214.0	1992.2	7369.4	8584.9	9146.8	6483.8	4196.0
75°	636.6	642.8	698.8	818.7	1140.8	1368.0	4888.6	6079.2	6155.4	3789.8	1964.1
77.5°	435.8	446.7	515.2	694.1	1073.9	1196.8	3047.4	3894.0	3494.0	1483.2	675.5
80°	277.0	292.6	333.1	526.1	949.4	1142.4	1895.7	2325.2	1529.9	507.4	325.3
82.5°	163.4	179.0	219.4	340.8	745.5	1059.9	1335.4	1455.2	717.5	259.9	196.1
85°	90.3	101.2	132.3	205.4	437.3	941.6	1069.2	1044.3	410.9	138.5	123.0
87.5°	29.6	34.2	48.2	82.5	180.5	443.6	641.2	602.3	213.2	63.8	48.2
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°	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8	3803.8
2.5°	3800.7	3796.0	3725.9	3673.0	3582.8	3508.1	3478.5	3438.0	3436.5	3406.9	3399.1
5°	3708.8	3660.6	3553.2	3450.5	3290.2	3182.8	3084.7	3016.2	2988.2	2927.5	2913.5
7.5°	3590.5	3526.7	3361.8	3168.8	2980.4	2812.4	2659.8	2507.3	2421.7	2392.1	2359.5
10°	3467.6	3355.5	3111.2	2894.8	2631.8	2373.5	2133.8	1919.0	1802.3	1719.8	1684.0
12.5°	3369.5	3220.1	2908.9	2585.1	2238.1	1892.5	1614.0	1388.3	1256.0	1193.7	1165.7
15°	3259.0	3061.4	2687.8	2278.5	1845.9	1453.6	1181.3	1003.9	950.9	921.4	916.7
17.5°	3142.3	2913.5	2448.2	1976.6	1463.0	1094.1	918.3	846.7	823.3	810.9	804.6
20°	3033.4	2781.2	2202.3	1640.4	1145.5	877.8	795.3	758.0	756.4	762.6	761.1
22.5°	2879.3	2608.5	1959.5	1329.1	915.1	764.2	711.3	701.9	711.3	719.0	722.2
25°	2792.1	2466.8	1688.7	1055.2	756.4	678.6	661.5	658.3	672.4	681.7	680.1
27.5°	2701.9	2320.5	1436.5	845.1	663.0	617.9	614.8	617.9	631.9	645.9	644.3
30°	2631.8	2203.8	1200.0	706.6	591.4	574.3	571.2	574.3	582.1	583.6	583.6
32.5°	2574.2	2065.3	999.2	613.2	547.8	533.8	536.9	535.4	536.9	538.5	540.1
35°	2540.0	1982.8	834.2	555.6	512.0	501.2	499.6	494.9	496.5	498.0	496.5
37.5°	2613.1	1942.3	703.5	515.2	487.1	477.8	474.7	471.6	466.9	466.9	466.9
40°	2723.6	1920.6	624.1	488.7	468.5	457.6	448.2	445.1	445.1	446.7	448.2
42.5°	2943.1	1956.4	569.6	468.5	445.1	432.7	423.3	424.9	429.6	434.2	431.1
45°	3260.6	2065.3	544.7	452.9	431.1	414.0	407.8	406.2	410.9	418.7	424.9
47.5°	3676.1	2234.9	535.4	438.9	421.8	398.4	390.6	395.3	401.5	412.4	407.8
50°	4356.3	2616.3	543.2	426.4	407.8	390.6	381.3	376.6	381.3	389.1	392.2
52.5°	5245.0	3308.8	572.7	420.2	398.4	384.4	368.9	361.1	365.7	372.0	372.0
55°	6308.0	4255.1	655.2	412.4	382.9	375.1	358.0	342.4	345.5	345.5	344.0
57.5°	7244.9	4969.5	753.3	401.5	373.5	362.6	340.8	322.2	319.1	320.6	322.2
60°	7665.1	5159.4	800.0	398.4	373.5	347.1	317.5	298.8	294.2	291.0	291.0
62.5°	7592.0	4831.0	705.0	384.4	382.9	334.6	295.7	275.5	269.3	263.0	264.6
65°	7150.0	4362.5	555.6	365.7	384.4	326.8	273.9	253.7	242.8	235.0	233.5
67.5°	6342.2	3724.4	440.5	351.7	368.9	312.8	255.2	231.9	222.6	214.8	211.7
70°	4961.7	2919.7	382.9	333.1	331.5	278.6	233.5	213.2	199.2	189.9	189.9
72.5°	3217.0	1845.9	328.4	295.7	286.4	233.5	202.3	189.9	179.0	171.2	171.2
75°	1456.8	857.6	264.6	247.5	233.5	186.8	171.2	165.0	155.6	147.9	147.9
77.5°	522.9	365.7	197.7	194.5	174.3	144.7	138.5	133.8	127.6	119.8	119.8
80°	292.6	231.9	147.9	141.6	121.4	107.4	99.6	99.6	96.5	91.8	90.3
82.5°	185.2	151.0	108.9	94.9	79.4	71.6	68.5	66.9	65.4	59.1	57.6
85°	116.7	102.7	71.6	56.0	46.7	35.8	34.2	32.7	29.6	26.5	26.5
87.5°	52.9	59.1	28.0	17.1	12.5	7.8	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)