

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: P484183

Luminaire Tested: **IFLD-M-SA4B-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484183
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

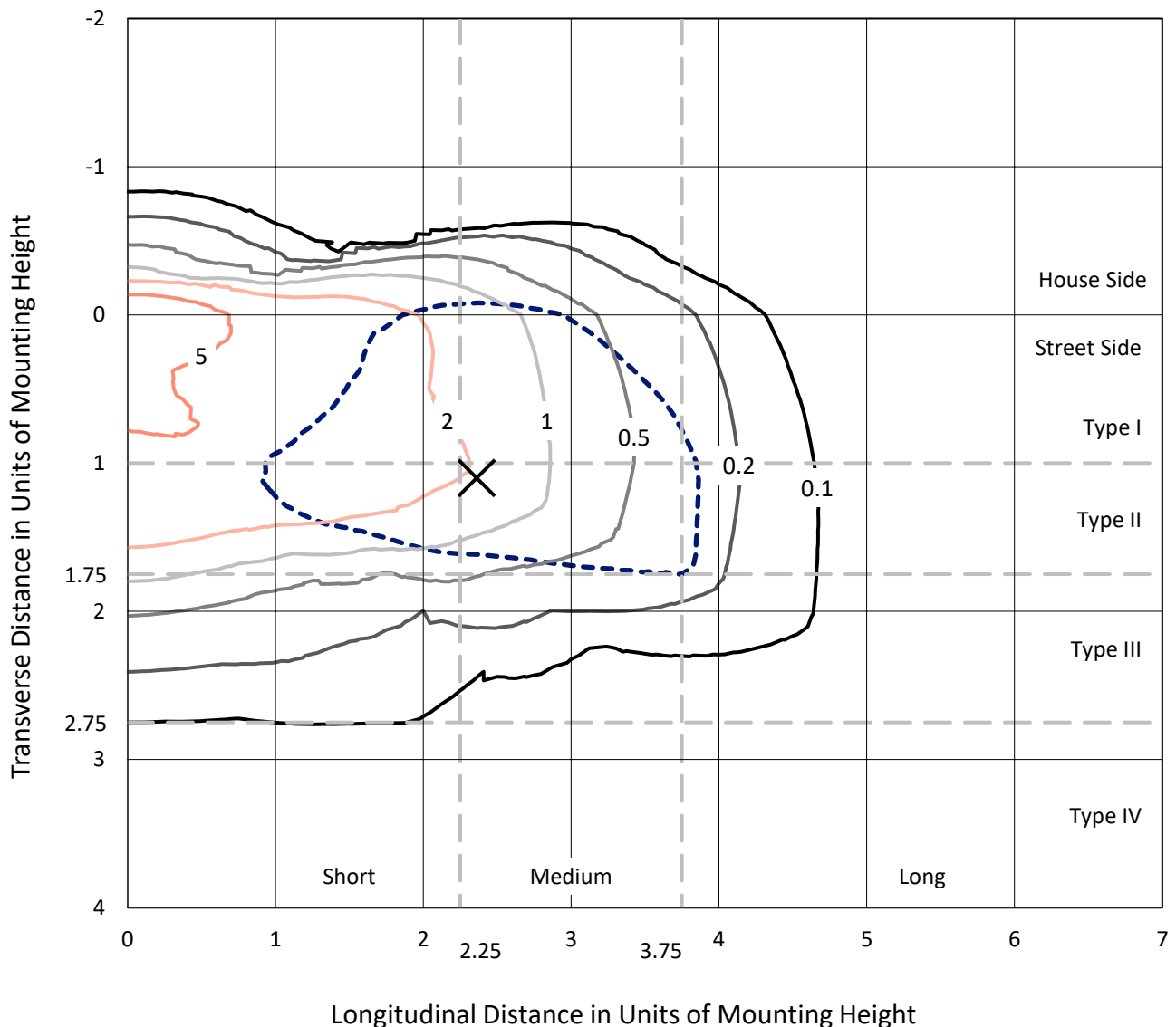
Lumens per Lamp: N/A
Luminaire Lumens: 14936.9 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

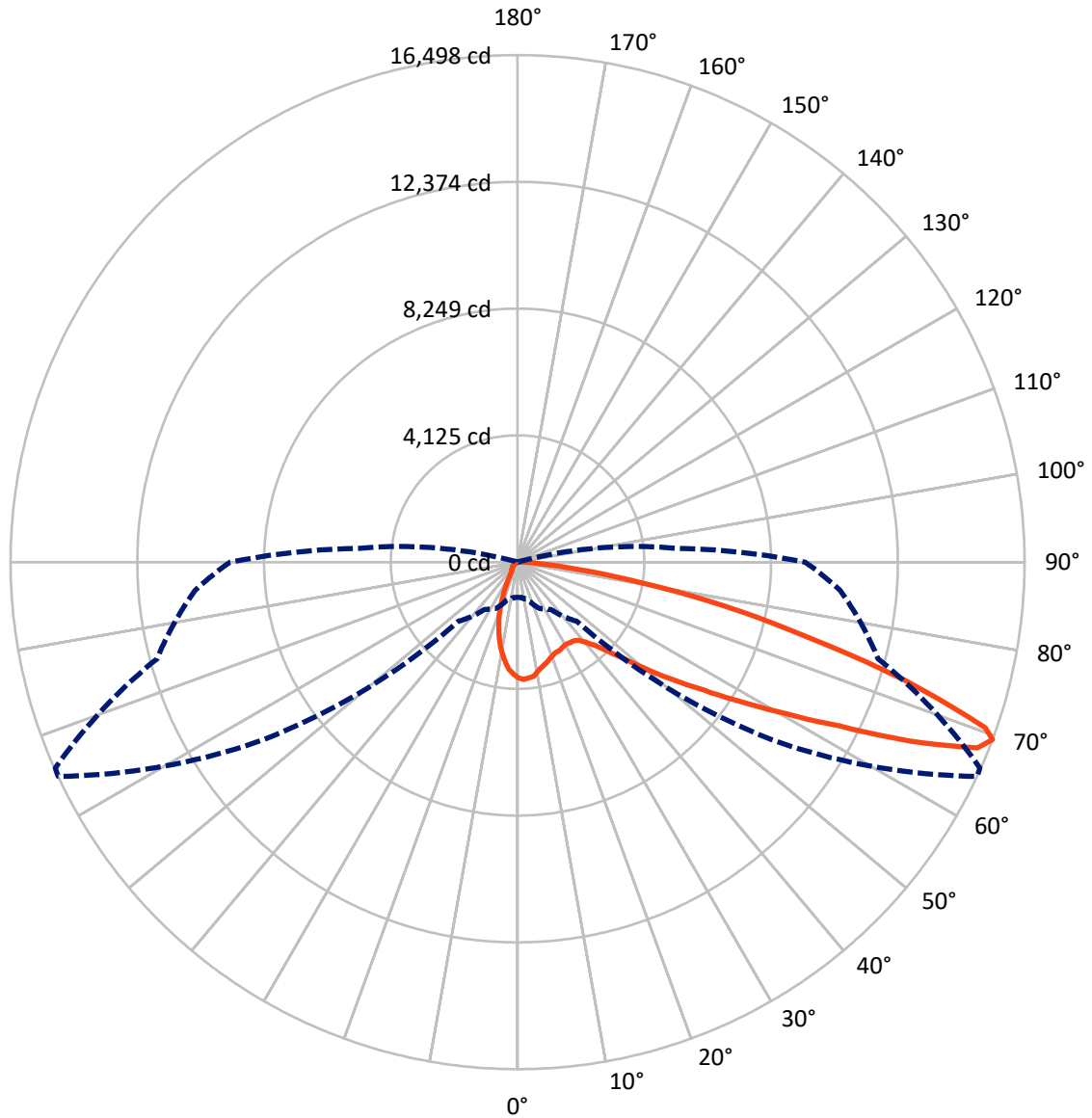
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1811.9	0.0	1811.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13125.0	0.0	13125.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	14936.9	0.0	14936.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	2.1
10°-20°	674.3	4.5
20°-30°	938.8	6.3
30°-40°	1330.3	8.9
40°-50°	2096.5	14.0
50°-60°	3401.9	22.8
60°-70°	3799.3	25.4
70°-80°	2139.4	14.3
80°-90°	248.2	1.7
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°	14936.9	100.0
0°-180°	14936.9	100.0

Coefficient of Utilization



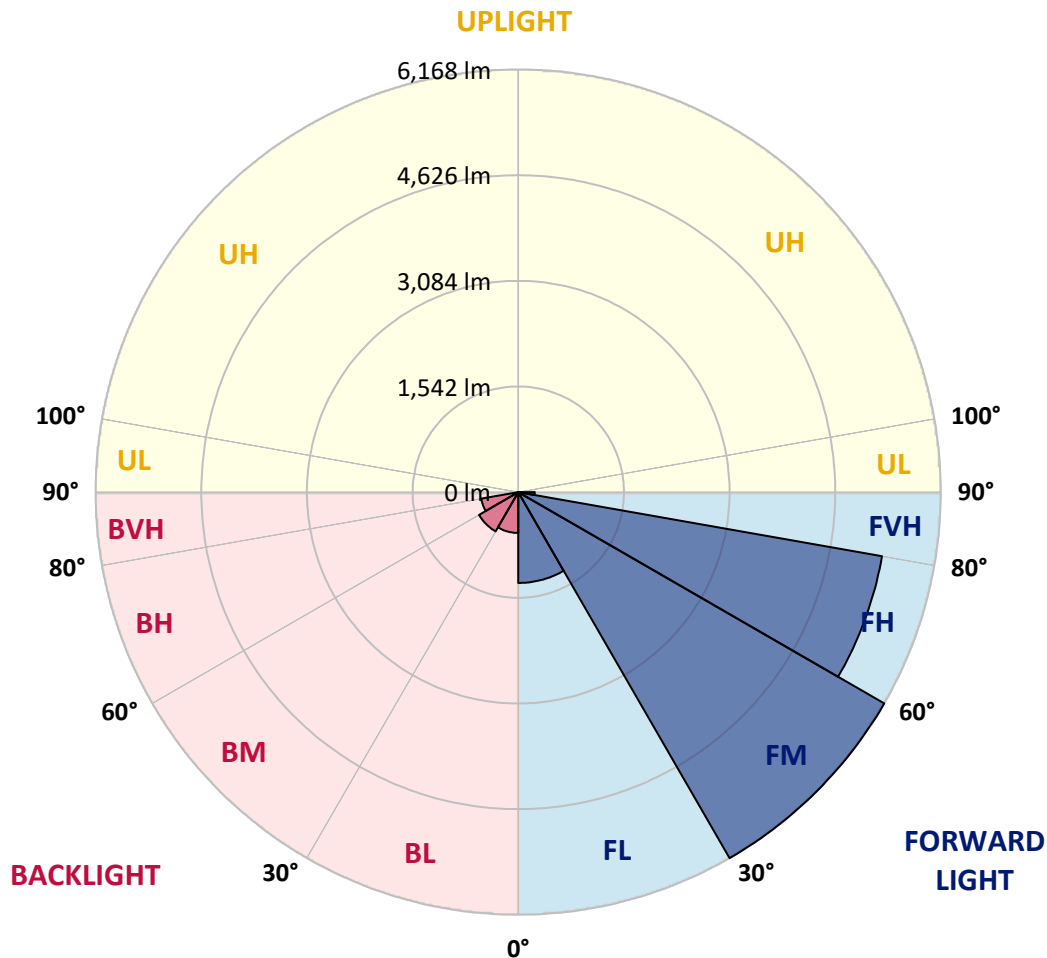
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.5	8.9			
FM (30°-60°)	6167.6	41.3			
FH (60°-80°)	5390.5	36.1			G3/7500
FVH (80°-90°)	241.4	1.6			G3/500
BL (0°-30°)	595.7	4.0	B2/1000		
BM (30°-60°)	661.2	4.4	B1/1000		
BH (60°-80°)	548.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9
2.5°	3626.9	3655.1	3663.2	3691.4	3705.5	3765.9	3800.2	3820.4	3810.3	3832.4	3834.5
5°	3369.0	3352.9	3395.2	3425.4	3489.9	3594.7	3701.5	3784.1	3822.4	3858.6	3852.6
7.5°	3093.0	3084.9	3127.2	3195.7	3254.2	3381.1	3552.4	3755.9	3747.8	3836.5	3862.7
10°	2903.5	2911.6	2925.7	2994.2	3080.9	3209.8	3423.4	3612.8	3655.1	3842.5	3894.9
12.5°	2730.3	2744.4	2770.6	2841.1	2941.8	3074.8	3282.4	3504.0	3568.5	3808.3	3913.0
15°	2673.8	2641.6	2694.0	2746.4	2851.2	2970.0	3145.3	3421.4	3449.6	3768.0	3943.3
17.5°	2627.5	2607.4	2631.5	2673.8	2784.7	2881.4	3046.6	3332.7	3385.1	3751.8	3939.2
20°	2641.6	2623.5	2633.5	2665.8	2716.2	2806.8	2960.0	3248.1	3304.5	3677.3	3933.2
22.5°	2681.9	2696.0	2677.9	2685.9	2702.1	2748.4	2913.6	3187.7	3236.0	3663.2	3967.4
25°	2863.2	2839.1	2814.9	2804.8	2710.1	2730.3	2899.5	3183.6	3217.9	3612.8	3939.2
27.5°	3052.7	3032.5	3022.4	2964.0	2835.0	2774.6	2901.5	3127.2	3173.6	3592.7	3905.0
30°	3282.4	3308.6	3268.3	3197.7	3018.4	2869.3	2923.7	3099.0	3163.5	3516.1	3882.8
32.5°	3524.2	3538.3	3558.4	3506.0	3274.3	3012.4	2990.2	3125.2	3129.2	3516.1	3832.4
35°	3798.2	3778.0	3830.4	3834.5	3630.9	3266.2	3117.1	3143.3	3185.6	3500.0	3814.3
37.5°	4033.9	4068.2	4128.6	4225.4	4015.8	3624.9	3314.6	3228.0	3246.1	3574.5	3828.4
40°	4291.9	4326.1	4463.1	4559.8	4441.0	4027.9	3614.8	3425.4	3439.5	3685.4	3901.0
42.5°	4576.0	4642.5	4805.7	4974.9	4942.7	4539.7	4001.7	3715.6	3709.5	3961.4	4050.1
45°	4960.8	5049.5	5226.8	5422.2	5450.5	5126.0	4517.5	4148.8	4168.9	4322.1	4358.3
47.5°	5496.8	5492.8	5666.1	5883.7	6046.9	5734.6	5134.1	4731.1	4729.1	4892.3	4815.7
50°	6014.6	6016.7	6063.0	6314.9	6738.0	6578.8	5897.8	5504.9	5482.7	5563.3	5440.4
52.5°	6254.4	6226.2	6192.0	6496.2	7270.0	7642.7	6864.9	6381.4	6363.2	6314.9	6282.6
55°	6002.5	6012.6	6010.6	6327.0	7550.0	8765.0	8106.2	7346.5	7316.3	7165.2	7209.5
57.5°	5194.6	5162.3	5232.8	5726.5	7229.7	9530.7	9881.3	8563.6	8485.0	7983.2	7882.5
60°	3866.7	3876.8	3935.2	4517.5	6433.7	9691.9	11579.9	9992.2	9653.6	8559.5	8420.5
62.5°	2700.0	2679.9	2702.1	3028.5	4600.1	9047.1	12728.5	11729.0	11402.6	9214.4	9133.8
65°	1932.3	1906.1	1994.8	2194.3	2762.5	6917.3	12891.7	14042.2	13750.0	10260.1	10066.7
67.5°	1390.3	1386.3	1489.1	1851.7	1962.6	3983.6	11682.7	16137.8	15960.5	11501.4	10634.9
69°	1150.5	1152.6	1251.3	1658.3	1873.9	2720.2	10052.6	16498.4	16466.2	12142.1	10528.1
70°	1003.4	1011.5	1126.4	1543.5	1837.6	2236.6	8666.3	16143.8	16111.6	12267.0	10175.5
72.5°	618.6	624.6	775.8	1237.2	1747.0	1825.5	5182.5	13208.0	13318.8	11694.8	8767.1
75°	296.2	298.2	407.0	894.6	1684.5	1730.8	2776.6	9746.3	9980.1	9442.1	6850.8
77.5°	157.2	157.2	195.5	475.5	1364.1	1628.1	1648.2	6875.0	7068.5	5970.3	3894.9
80°	78.6	80.6	118.9	247.8	846.3	1595.8	1287.6	4100.4	4205.2	2436.1	1213.0
82.5°	30.2	32.2	56.4	149.1	439.3	1348.0	1130.4	2017.0	1990.8	570.2	296.2
85°	4.0	4.0	20.1	88.7	187.4	594.4	932.9	842.3	814.0	124.9	143.1
87.5°	0.0	0.0	4.0	26.2	56.4	173.3	360.7	231.7	257.9	34.3	70.5
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°	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9
2.5°	3824.4	3782.1	3717.6	3655.1	3588.6	3508.0	3419.4	3387.1	3330.7	3326.7	3358.9
5°	3820.4	3751.8	3639.0	3506.0	3316.6	3173.6	3018.4	2905.6	2818.9	2762.5	2776.6
7.5°	3840.5	3757.9	3562.4	3276.3	3032.5	2748.4	2508.6	2343.4	2192.3	2117.7	2109.7
10°	3808.3	3697.4	3411.3	3010.3	2651.7	2254.7	1904.1	1682.5	1456.8	1374.2	1378.2
12.5°	3826.4	3671.2	3248.1	2736.3	2242.6	1726.8	1307.7	1005.5	793.9	725.4	717.3
15°	3838.5	3614.8	3090.9	2407.9	1789.3	1176.7	757.6	570.2	503.7	491.6	489.6
17.5°	3792.1	3546.3	2869.3	2083.5	1325.8	715.3	503.7	465.5	453.4	445.3	441.3
20°	3790.1	3506.0	2677.9	1751.0	884.6	487.6	435.2	421.1	403.0	396.9	396.9
22.5°	3755.9	3421.4	2448.2	1386.3	564.2	419.1	390.9	368.7	348.6	340.5	338.5
25°	3745.8	3322.7	2232.6	1041.7	429.2	374.8	346.6	314.3	290.2	278.1	272.0
27.5°	3717.6	3238.0	2015.0	733.4	374.8	334.5	298.2	264.0	235.7	217.6	215.6
30°	3616.8	3149.4	1773.2	507.8	340.5	296.2	255.9	215.6	187.4	175.3	171.3
32.5°	3574.5	3066.8	1509.2	390.9	310.3	261.9	215.6	179.3	157.2	145.1	143.1
35°	3524.2	2945.9	1253.3	340.5	282.1	227.7	181.3	151.1	133.0	122.9	122.9
37.5°	3530.2	2849.1	1013.5	308.3	251.9	195.5	155.2	129.0	112.8	102.8	102.8
40°	3512.1	2772.6	787.8	280.1	223.7	167.2	131.0	108.8	94.7	84.6	82.6
42.5°	3594.7	2752.4	594.4	255.9	195.5	143.1	112.8	92.7	78.6	66.5	66.5
45°	3733.7	2784.7	463.4	233.7	167.2	122.9	96.7	76.6	62.5	54.4	52.4
47.5°	4104.5	2911.6	362.7	215.6	143.1	106.8	80.6	62.5	50.4	42.3	40.3
50°	4642.5	3195.7	308.3	189.4	120.9	90.7	66.5	48.4	40.3	32.2	30.2
52.5°	5408.1	3673.3	280.1	167.2	100.7	74.6	52.4	38.3	30.2	24.2	22.2
55°	6242.3	4269.7	253.9	141.0	84.6	60.4	42.3	30.2	22.2	16.1	14.1
57.5°	6893.2	4785.5	231.7	116.9	68.5	48.4	32.2	22.2	16.1	10.1	8.1
60°	7604.4	5148.2	203.5	92.7	56.4	36.3	24.2	16.1	12.1	6.0	6.0
62.5°	8337.9	5573.4	167.2	72.5	44.3	28.2	18.1	12.1	8.1	2.0	2.0
65°	9357.4	5905.8	129.0	56.4	34.3	20.1	14.1	10.1	4.0	0.0	0.0
67.5°	9645.6	5742.6	94.7	44.3	24.2	14.1	10.1	6.0	2.0	0.0	0.0
69°	9357.4	5172.4	82.6	38.3	20.1	12.1	8.1	4.0	2.0	0.0	0.0
70°	8831.5	4729.1	72.5	32.2	18.1	12.1	6.0	4.0	2.0	0.0	0.0
72.5°	7386.8	3626.9	56.4	24.2	14.1	10.1	6.0	4.0	0.0	0.0	0.0
75°	5418.2	2240.6	42.3	18.1	12.1	8.1	6.0	4.0	0.0	0.0	0.0
77.5°	2903.5	818.1	30.2	12.1	8.1	6.0	6.0	4.0	0.0	0.0	0.0
80°	795.9	241.8	22.2	8.1	6.0	4.0	4.0	2.0	0.0	0.0	0.0
82.5°	217.6	62.5	14.1	8.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	116.9	24.2	8.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.4	8.1	6.0	4.0	4.0	2.0	0.0	0.0	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)