

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: P483968

Luminaire Tested: **IFLD-S-SA3B-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483968
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

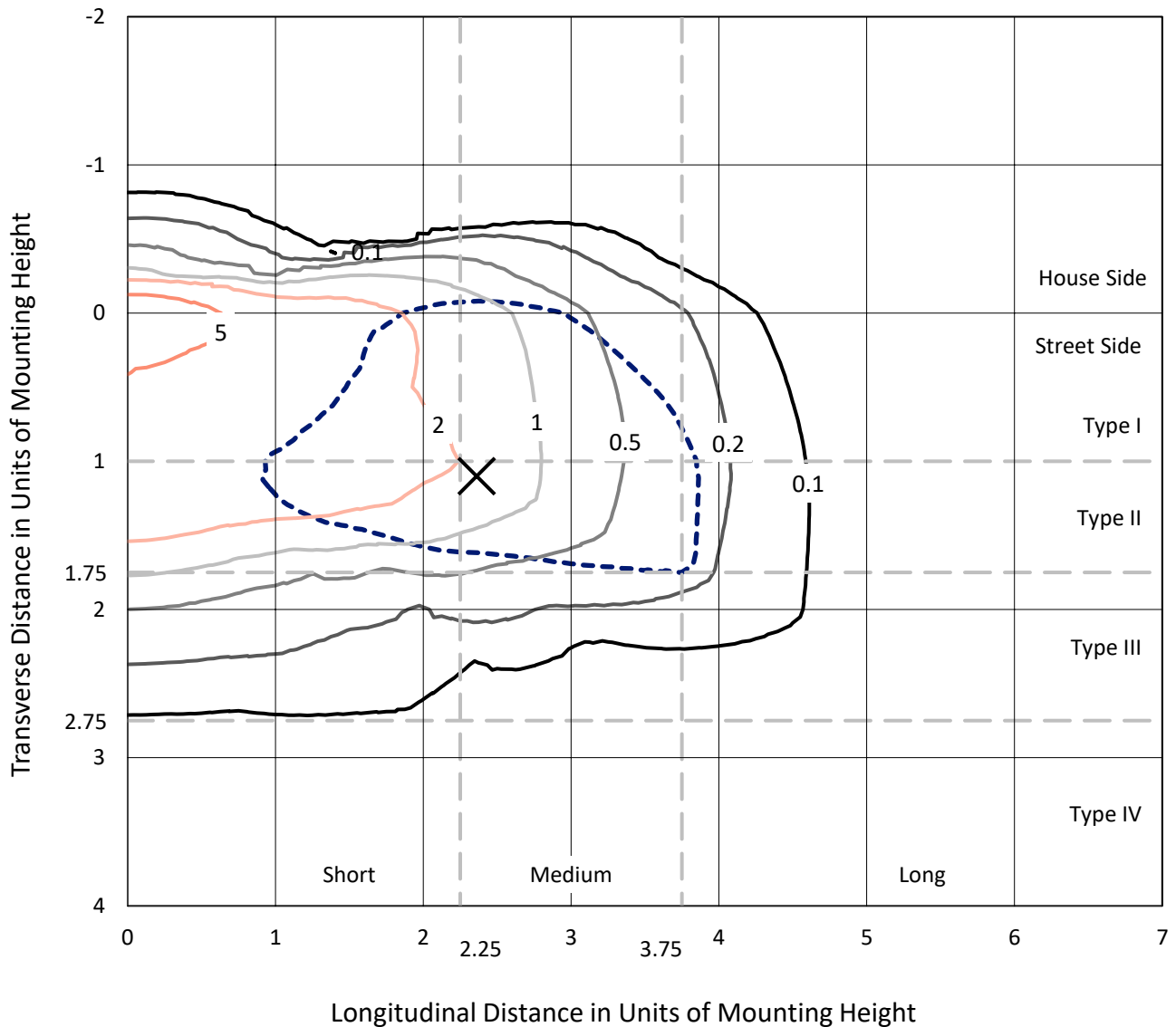
Lumens per Lamp: N/A
Luminaire Lumens: 13813.1 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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

REPORT NUMBER: P483968
 CATALOG NUMBER: IFLD-S-SA3B-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

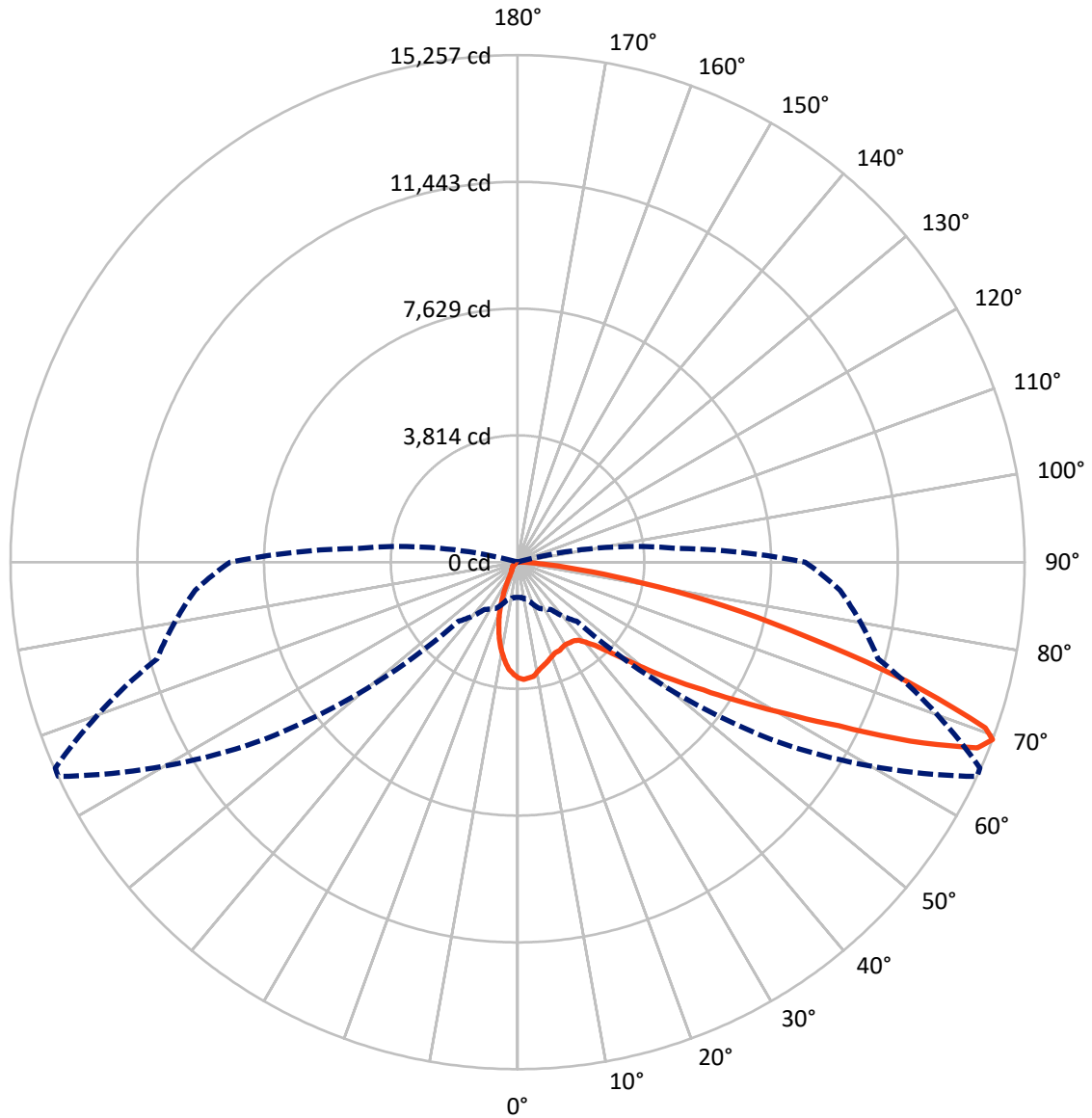
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P483968
CATALOG NUMBER: IFLD-S-SA3B-735-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483968
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1675.6	0.0	1675.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12137.5	0.0	12137.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	13813.1	0.0	13813.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.0	2.1
10°-20°	623.6	4.5
20°-30°	868.1	6.3
30°-40°	1230.2	8.9
40°-50°	1938.8	14.0
50°-60°	3146.0	22.8
60°-70°	3513.4	25.4
70°-80°	1978.5	14.3
80°-90°	229.6	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°	13813.1	100.0
0°-180°	13813.1	100.0



REPORT NUMBER: P483968

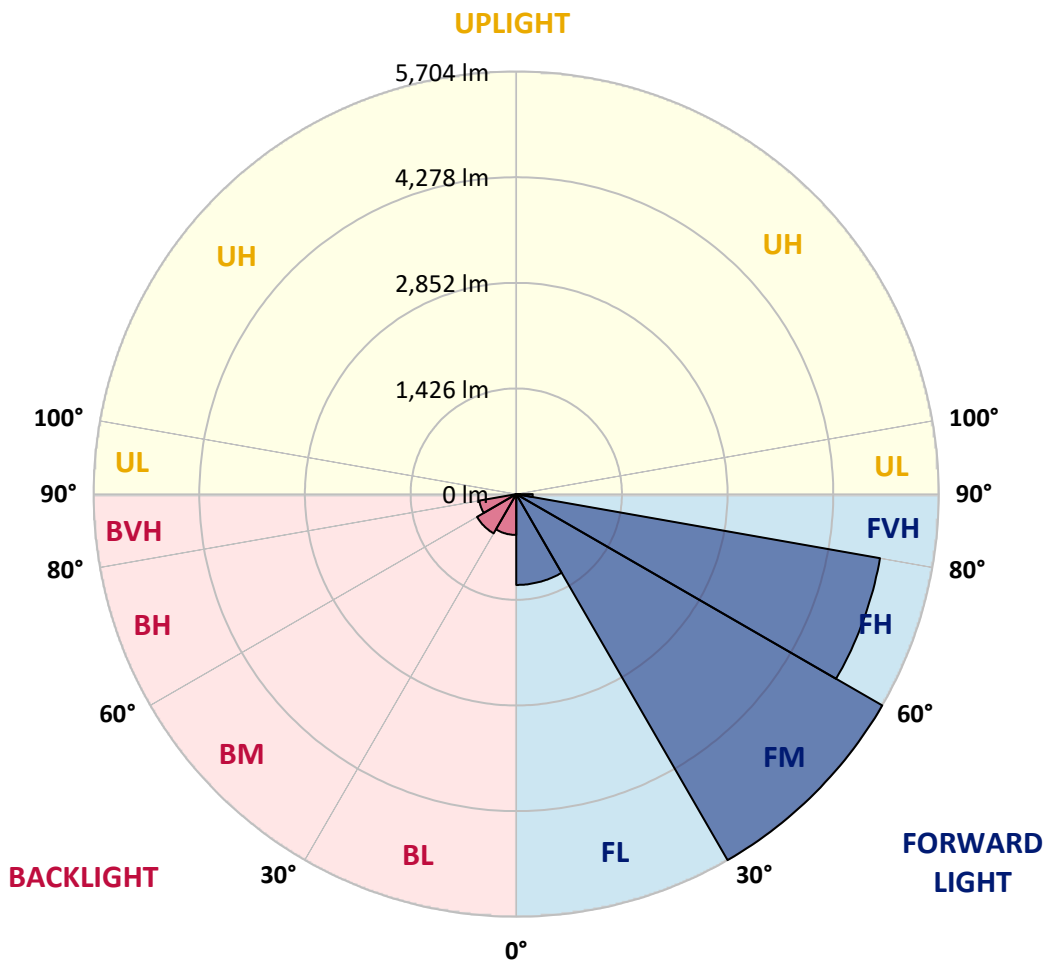
CATALOG NUMBER: IFLD-S-SA3B-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.8	8.9			
FM (30°-60°)	5703.5	41.3			
FH (60°-80°)	4984.9	36.1			G2/5000
FVH (80°-90°)	223.2	1.6			G2/225
BL (0°-30°)	550.9	4.0	B2/1000		
BM (30°-60°)	611.4	4.4	B1/1000		
BH (60°-80°)	507.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.3	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-G2

Type II Medium





REPORT NUMBER: P483968

CATALOG NUMBER: IFLD-S-SA3B-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6
2.5°	3354.0	3380.1	3387.6	3413.7	3426.7	3482.6	3514.3	3532.9	3523.6	3544.1	3546.0
5°	3115.5	3100.6	3139.7	3167.7	3227.3	3324.2	3423.0	3499.4	3534.8	3568.3	3562.7
7.5°	2860.2	2852.8	2891.9	2955.3	3009.3	3126.7	3285.1	3473.3	3465.8	3547.8	3572.0
10°	2685.1	2692.5	2705.6	2768.9	2849.1	2968.3	3165.8	3341.0	3380.1	3553.4	3601.9
12.5°	2524.8	2537.9	2562.1	2627.3	2720.5	2843.5	3035.4	3240.4	3300.0	3521.7	3618.6
15°	2472.7	2442.8	2491.3	2539.7	2636.6	2746.6	2908.7	3164.0	3190.1	3484.5	3646.6
17.5°	2429.8	2411.2	2433.5	2472.7	2575.1	2664.6	2817.4	3082.0	3130.4	3469.6	3642.8
20°	2442.8	2426.1	2435.4	2465.2	2511.8	2595.6	2737.3	3003.7	3055.9	3400.6	3637.3
22.5°	2480.1	2493.2	2476.4	2483.8	2498.8	2541.6	2694.4	2947.8	2992.5	3387.6	3668.9
25°	2647.8	2625.5	2603.1	2593.8	2506.2	2524.8	2681.4	2944.1	2975.8	3341.0	3642.8
27.5°	2823.0	2804.3	2795.0	2741.0	2621.7	2565.8	2683.2	2891.9	2934.8	3322.4	3611.2
30°	3035.4	3059.6	3022.4	2957.1	2791.3	2653.4	2703.7	2865.8	2925.5	3251.5	3590.7
32.5°	3259.0	3272.0	3290.7	3242.2	3027.9	2785.7	2765.2	2890.1	2893.8	3251.5	3544.1
35°	3512.4	3493.8	3542.2	3546.0	3357.8	3020.5	2882.6	2906.8	2946.0	3236.6	3527.3
37.5°	3730.4	3762.1	3818.0	3907.4	3713.7	3352.2	3065.2	2985.1	3001.9	3305.6	3540.4
40°	3968.9	4000.6	4127.3	4216.8	4106.8	3724.8	3342.8	3167.7	3180.7	3408.1	3607.4
42.5°	4231.7	4293.2	4444.1	4600.6	4570.8	4198.1	3700.6	3436.0	3430.4	3663.3	3745.3
45°	4587.6	4669.6	4833.5	5014.3	5040.4	4740.4	4177.6	3836.6	3855.3	3996.9	4030.4
47.5°	5083.2	5079.5	5239.7	5441.0	5591.9	5303.1	4747.8	4375.1	4373.3	4524.2	4453.4
50°	5562.1	5564.0	5606.8	5839.7	6231.0	6083.8	5454.0	5090.7	5070.2	5144.7	5031.0
52.5°	5783.8	5757.7	5726.1	6007.4	6723.0	7067.7	6348.4	5901.2	5884.5	5839.7	5809.9
55°	5550.9	5560.2	5558.4	5850.9	6982.0	8105.6	7496.3	6793.8	6765.8	6626.1	6667.1
57.5°	4803.7	4773.9	4839.1	5295.6	6685.7	8813.6	9137.9	7919.2	7846.6	7382.6	7289.4
60°	3575.8	3585.1	3639.1	4177.6	5949.7	8962.7	10708.7	9240.3	8927.3	7915.5	7786.9
62.5°	2496.9	2478.3	2498.8	2800.6	4254.0	8366.4	11770.8	10846.6	10544.7	8521.1	8446.6
65°	1787.0	1762.7	1844.7	2029.2	2554.7	6396.9	11921.7	12985.7	12715.5	9488.2	9309.3
67.5°	1285.7	1282.0	1377.0	1712.4	1814.9	3683.8	10803.7	14923.6	14759.6	10636.0	9834.8
69°	1064.0	1065.8	1157.1	1533.5	1732.9	2515.5	9296.2	15257.1	15227.3	11228.5	9736.0
70°	927.9	935.4	1041.6	1427.3	1699.4	2068.3	8014.3	14929.1	14899.3	11344.1	9409.9
72.5°	572.0	577.6	717.4	1144.1	1615.5	1688.2	4792.5	12214.2	12316.7	10814.9	8107.4
75°	273.9	275.8	376.4	827.3	1557.8	1600.6	2567.7	9013.0	9229.2	8731.7	6335.4
77.5°	145.3	145.3	180.7	439.8	1261.5	1505.6	1524.2	6357.7	6536.6	5521.1	3601.9
80°	72.7	74.5	109.9	229.2	782.6	1475.8	1190.7	3791.9	3888.8	2252.8	1121.7
82.5°	28.0	29.8	52.2	137.9	406.2	1246.6	1045.3	1865.2	1841.0	527.3	273.9
85°	3.7	3.7	18.6	82.0	173.3	549.7	862.7	778.9	752.8	115.5	132.3
87.5°	0.0	0.0	3.7	24.2	52.2	160.2	333.5	214.3	238.5	31.7	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483968

CATALOG NUMBER: IFLD-S-SA3B-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6	3482.6
2.5°	3536.6	3497.5	3437.9	3380.1	3318.6	3244.1	3162.1	3132.3	3080.1	3076.4	3106.2
5°	3532.9	3469.6	3365.2	3242.2	3067.1	2934.8	2791.3	2686.9	2606.8	2554.7	2567.7
7.5°	3551.5	3475.1	3294.4	3029.8	2804.3	2541.6	2319.9	2167.1	2027.3	1958.4	1950.9
10°	3521.7	3419.2	3154.6	2783.8	2452.2	2085.1	1760.9	1555.9	1347.2	1270.8	1274.5
12.5°	3538.5	3395.0	3003.7	2530.4	2073.9	1596.9	1209.3	929.8	734.2	670.8	663.4
15°	3549.7	3342.8	2858.4	2226.7	1654.7	1088.2	700.6	527.3	465.8	454.7	452.8
17.5°	3506.8	3279.5	2653.4	1926.7	1226.1	661.5	465.8	430.4	419.3	411.8	408.1
20°	3505.0	3242.2	2476.4	1619.2	818.0	450.9	402.5	389.4	372.7	367.1	367.1
22.5°	3473.3	3164.0	2264.0	1282.0	521.7	387.6	361.5	341.0	322.4	314.9	313.0
25°	3464.0	3072.7	2064.6	963.4	396.9	346.6	320.5	290.7	268.3	257.1	251.6
27.5°	3437.9	2994.4	1863.3	678.3	346.6	309.3	275.8	244.1	218.0	201.2	199.4
30°	3344.7	2912.4	1639.7	469.6	314.9	273.9	236.6	199.4	173.3	162.1	158.4
32.5°	3305.6	2836.0	1395.6	361.5	287.0	242.2	199.4	165.8	145.3	134.2	132.3
35°	3259.0	2724.2	1159.0	314.9	260.9	210.6	167.7	139.8	123.0	113.7	113.7
37.5°	3264.6	2634.8	937.3	285.1	232.9	180.7	143.5	119.3	104.3	95.0	95.0
40°	3247.8	2564.0	728.6	259.0	206.8	154.7	121.1	100.6	87.6	78.3	76.4
42.5°	3324.2	2545.3	549.7	236.6	180.7	132.3	104.3	85.7	72.7	61.5	61.5
45°	3452.8	2575.1	428.6	216.1	154.7	113.7	89.4	70.8	57.8	50.3	48.4
47.5°	3795.6	2692.5	335.4	199.4	132.3	98.8	74.5	57.8	46.6	39.1	37.3
50°	4293.2	2955.3	285.1	175.2	111.8	83.9	61.5	44.7	37.3	29.8	28.0
52.5°	5001.2	3396.9	259.0	154.7	93.2	68.9	48.4	35.4	28.0	22.4	20.5
55°	5772.7	3948.4	234.8	130.4	78.3	55.9	39.1	28.0	20.5	14.9	13.0
57.5°	6374.5	4425.5	214.3	108.1	63.4	44.7	29.8	20.5	14.9	9.3	7.5
60°	7032.3	4760.9	188.2	85.7	52.2	33.5	22.4	14.9	11.2	5.6	5.6
62.5°	7710.5	5154.0	154.7	67.1	41.0	26.1	16.8	11.2	7.5	1.9	1.9
65°	8653.4	5461.5	119.3	52.2	31.7	18.6	13.0	9.3	3.7	0.0	0.0
67.5°	8919.8	5310.5	87.6	41.0	22.4	13.0	9.3	5.6	1.9	0.0	0.0
69°	8653.4	4783.2	76.4	35.4	18.6	11.2	7.5	3.7	1.9	0.0	0.0
70°	8167.1	4373.3	67.1	29.8	16.8	11.2	5.6	3.7	1.9	0.0	0.0
72.5°	6831.0	3354.0	52.2	22.4	13.0	9.3	5.6	3.7	0.0	0.0	0.0
75°	5010.5	2072.0	39.1	16.8	11.2	7.5	5.6	3.7	0.0	0.0	0.0
77.5°	2685.1	756.5	28.0	11.2	7.5	5.6	5.6	3.7	0.0	0.0	0.0
80°	736.0	223.6	20.5	7.5	5.6	3.7	3.7	1.9	0.0	0.0	0.0
82.5°	201.2	57.8	13.0	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	108.1	22.4	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	55.9	7.5	5.6	3.7	3.7	1.9	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)