

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: P484004

Luminaire Tested: **IFLD-S-SA2D-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484004
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

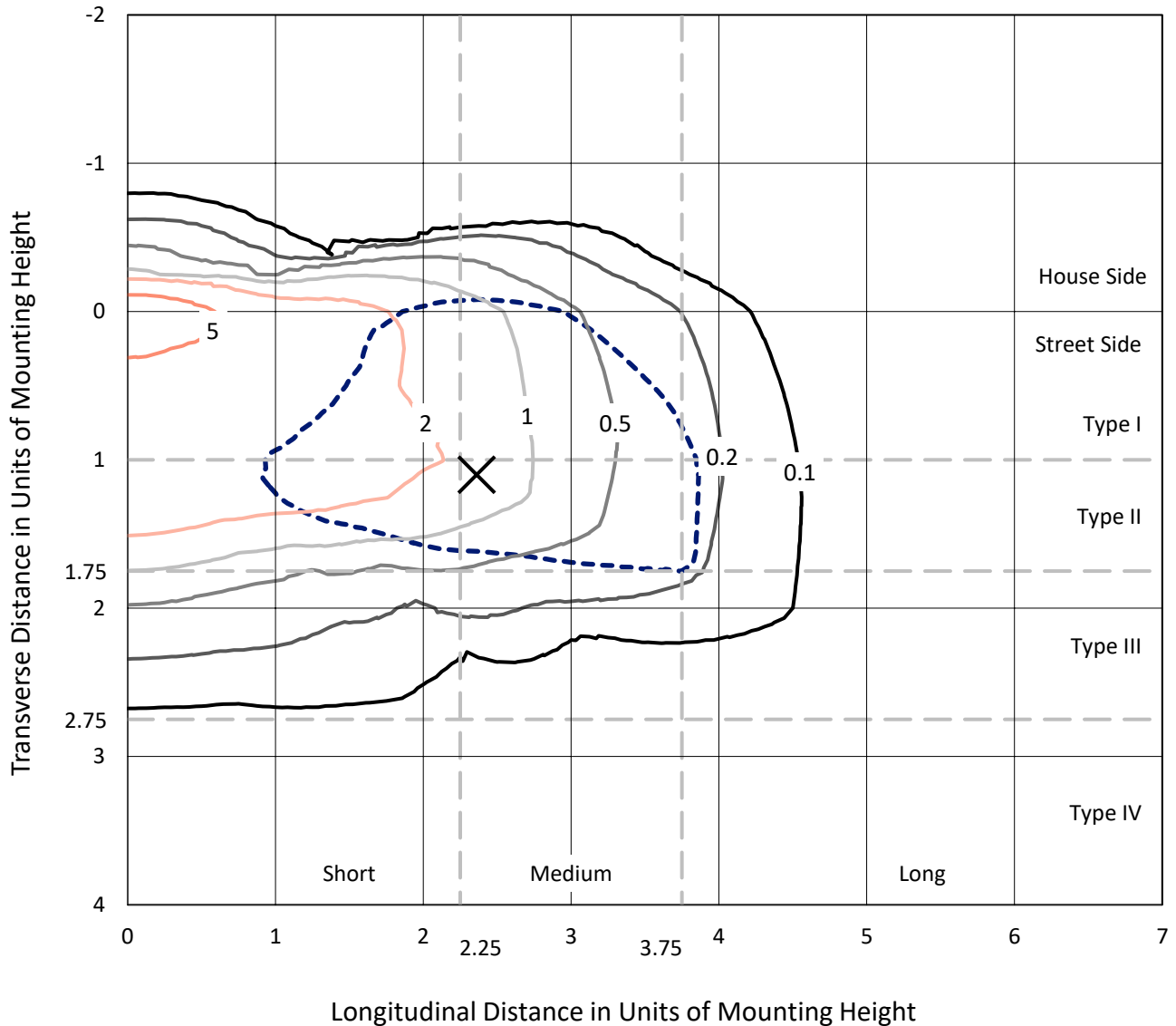
Lumens per Lamp: N/A
Luminaire Lumens: 12872.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

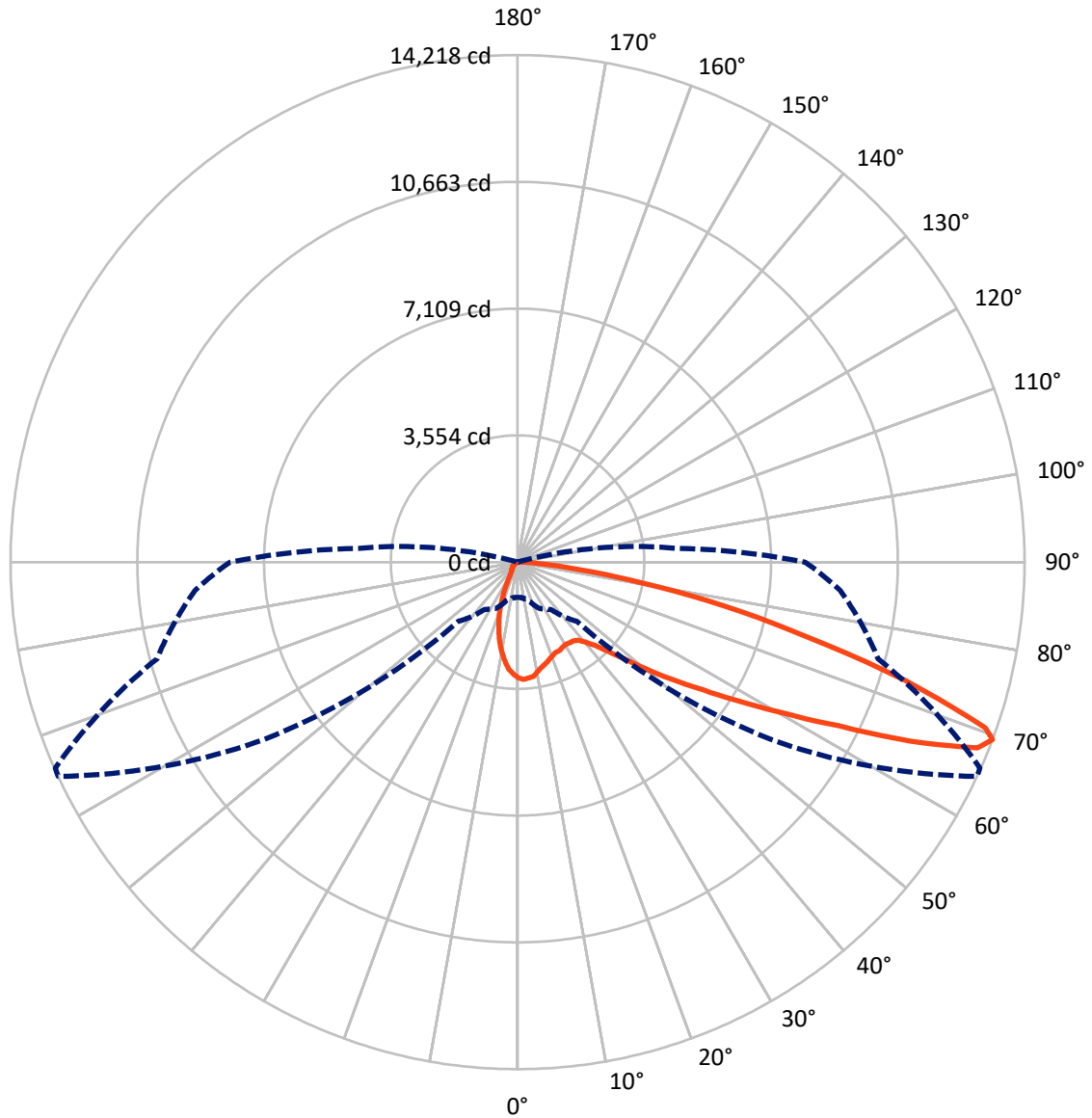
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	1561.5	0.0	1561.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	11310.7	0.0	11310.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	12872.1	0.0	12872.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	2.1
10°-20°	581.1	4.5
20°-30°	809.0	6.3
30°-40°	1146.4	8.9
40°-50°	1806.7	14.0
50°-60°	2931.7	22.8
60°-70°	3274.1	25.4
70°-80°	1843.7	14.3
80°-90°	213.9	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°	12872.1	100.0
0°-180°	12872.1	100.0

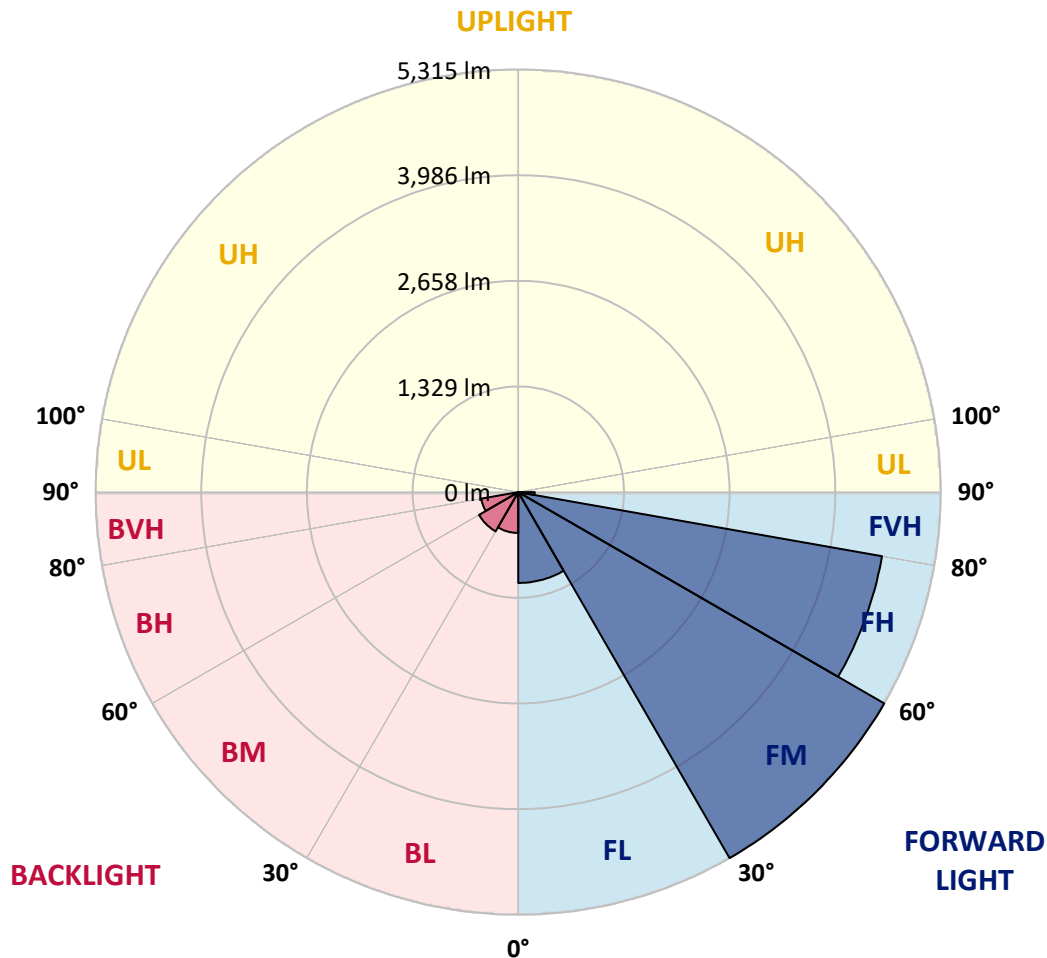


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1142.3	8.9			
FM (30°-60°)	5315.0	41.3			
FH (60°-80°)	4645.3	36.1			G2/5000
FVH (80°-90°)	208.0	1.6			G2/225
BL (0°-30°)	513.4	4.0	B2/1000		
BM (30°-60°)	569.8	4.4	B1/1000		
BH (60°-80°)	472.4	3.7	B1/500		G1/500
BVH (80°-90°)	5.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4
2.5°	3125.6	3149.9	3156.8	3181.1	3193.3	3245.4	3274.9	3292.3	3283.6	3302.7	3304.4
5°	2903.3	2889.4	2925.9	2951.9	3007.5	3097.8	3189.8	3261.0	3294.0	3325.2	3320.0
7.5°	2665.4	2658.5	2694.9	2754.0	2804.3	2913.7	3061.3	3236.7	3229.7	3306.1	3328.7
10°	2502.2	2509.1	2521.3	2580.3	2655.0	2766.1	2950.2	3113.4	3149.9	3311.4	3356.5
12.5°	2352.8	2365.0	2387.6	2448.4	2535.2	2649.8	2828.6	3019.6	3075.2	3281.8	3372.1
15°	2304.2	2276.4	2321.6	2366.7	2457.0	2559.5	2710.6	2948.4	2972.7	3247.1	3398.2
17.5°	2264.3	2246.9	2267.8	2304.2	2399.7	2483.1	2625.5	2872.0	2917.2	3233.2	3394.7
20°	2276.4	2260.8	2269.5	2297.3	2340.7	2418.8	2550.8	2799.1	2847.7	3169.0	3389.5
22.5°	2311.2	2323.3	2307.7	2314.6	2328.5	2368.5	2510.9	2747.0	2788.7	3156.8	3419.0
25°	2467.5	2446.6	2425.8	2417.1	2335.5	2352.8	2498.7	2743.5	2773.1	3113.4	3394.7
27.5°	2630.7	2613.3	2604.6	2554.3	2443.1	2391.0	2500.4	2694.9	2734.9	3096.0	3365.2
30°	2828.6	2851.2	2816.5	2755.7	2601.2	2472.7	2519.5	2670.6	2726.2	3030.1	3346.1
32.5°	3037.0	3049.2	3066.5	3021.4	2821.7	2595.9	2576.8	2693.2	2696.7	3030.1	3302.7
35°	3273.2	3255.8	3300.9	3304.4	3129.0	2814.7	2686.2	2708.8	2745.3	3016.2	3287.0
37.5°	3476.3	3505.8	3557.9	3641.3	3460.7	3123.8	2856.4	2781.7	2797.4	3080.4	3299.2
40°	3698.6	3728.1	3846.2	3929.5	3827.1	3471.1	3115.1	2951.9	2964.1	3175.9	3361.7
42.5°	3943.4	4000.7	4141.4	4287.2	4259.4	3912.2	3448.5	3202.0	3196.7	3413.8	3490.2
45°	4275.1	4351.5	4504.3	4672.7	4697.0	4417.5	3893.1	3575.3	3592.7	3724.6	3755.9
47.5°	4737.0	4733.5	4882.8	5070.3	5211.0	4941.8	4424.4	4077.1	4075.4	4216.0	4150.0
50°	5183.2	5184.9	5224.9	5441.9	5806.6	5669.4	5082.5	4743.9	4724.8	4794.3	4688.3
52.5°	5389.8	5365.5	5336.0	5598.2	6265.0	6586.2	5916.0	5499.2	5483.6	5441.9	5414.2
55°	5172.8	5181.5	5179.7	5452.4	6506.4	7553.4	6985.6	6331.0	6304.9	6174.7	6212.9
57.5°	4476.5	4448.7	4509.5	4934.9	6230.3	8213.3	8515.4	7379.8	7312.1	6879.7	6792.9
60°	3332.2	3340.9	3391.2	3893.1	5544.4	8352.2	9979.2	8610.9	8319.2	7376.3	7256.5
62.5°	2326.8	2309.4	2328.5	2609.8	3964.2	7796.5	10969.0	10107.7	9826.4	7940.6	7871.2
65°	1665.2	1642.7	1719.1	1891.0	2380.6	5961.1	11109.6	12101.1	11849.3	8841.8	8675.1
67.5°	1198.1	1194.7	1283.2	1595.8	1691.3	3432.9	10067.8	13907.0	13754.2	9911.5	9164.8
69°	991.5	993.2	1078.3	1429.1	1614.9	2344.2	8663.0	14217.8	14190.0	10463.7	9072.8
70°	864.7	871.7	970.7	1330.1	1583.6	1927.4	7468.3	13912.2	13884.4	10571.3	8768.9
72.5°	533.1	538.3	668.5	1066.2	1505.5	1573.2	4466.1	11382.2	11477.7	10078.2	7555.2
75°	255.3	257.0	350.8	771.0	1451.6	1491.6	2392.8	8399.1	8600.5	8136.9	5903.8
77.5°	135.4	135.4	168.4	409.8	1175.6	1403.0	1420.4	5924.7	6091.4	5145.0	3356.5
80°	67.7	69.5	102.4	213.6	729.3	1375.2	1109.6	3533.6	3623.9	2099.3	1045.3
82.5°	26.0	27.8	48.6	128.5	378.5	1161.7	974.1	1738.2	1715.6	491.4	255.3
85°	3.5	3.5	17.4	76.4	161.5	512.2	804.0	725.8	701.5	107.7	123.3
87.5°	0.0	0.0	3.5	22.6	48.6	149.3	310.8	199.7	222.3	29.5	60.8
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°	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4	3245.4
2.5°	3295.7	3259.3	3203.7	3149.9	3092.6	3023.1	2946.7	2918.9	2870.3	2866.8	2894.6
5°	3292.3	3233.2	3136.0	3021.4	2858.1	2734.9	2601.2	2503.9	2429.3	2380.6	2392.8
7.5°	3309.6	3238.4	3070.0	2823.4	2613.3	2368.5	2161.8	2019.5	1889.2	1825.0	1818.0
10°	3281.8	3186.3	2939.8	2594.2	2285.1	1943.1	1640.9	1449.9	1255.4	1184.2	1187.7
12.5°	3297.5	3163.8	2799.1	2358.1	1932.6	1488.1	1126.9	866.5	684.1	625.1	618.2
15°	3307.9	3115.1	2663.7	2075.0	1541.9	1014.1	652.9	491.4	434.1	423.7	421.9
17.5°	3267.9	3056.1	2472.7	1795.5	1142.6	616.4	434.1	401.1	390.7	383.7	380.3
20°	3266.2	3021.4	2307.7	1508.9	762.3	420.2	375.1	362.9	347.3	342.1	342.1
22.5°	3236.7	2948.4	2109.7	1194.7	486.2	361.2	336.9	317.8	300.4	293.5	291.7
25°	3228.0	2863.4	1924.0	897.7	369.9	323.0	298.7	270.9	250.0	239.6	234.4
27.5°	3203.7	2790.4	1736.4	632.1	323.0	288.2	257.0	227.5	203.2	187.5	185.8
30°	3116.9	2714.0	1528.0	437.6	293.5	255.3	220.5	185.8	161.5	151.1	147.6
32.5°	3080.4	2642.8	1300.6	336.9	267.4	225.7	185.8	154.5	135.4	125.0	123.3
35°	3037.0	2538.6	1080.1	293.5	243.1	196.2	156.3	130.2	114.6	105.9	105.9
37.5°	3042.2	2455.3	873.4	265.7	217.1	168.4	133.7	111.1	97.2	88.6	88.6
40°	3026.6	2389.3	678.9	241.4	192.7	144.1	112.9	93.8	81.6	72.9	71.2
42.5°	3097.8	2371.9	512.2	220.5	168.4	123.3	97.2	79.9	67.7	57.3	57.3
45°	3217.6	2399.7	399.4	201.4	144.1	105.9	83.3	66.0	53.8	46.9	45.1
47.5°	3537.1	2509.1	312.6	185.8	123.3	92.0	69.5	53.8	43.4	36.5	34.7
50°	4000.7	2754.0	265.7	163.2	104.2	78.1	57.3	41.7	34.7	27.8	26.0
52.5°	4660.5	3165.5	241.4	144.1	86.8	64.2	45.1	33.0	26.0	20.8	19.1
55°	5379.4	3679.5	218.8	121.5	72.9	52.1	36.5	26.0	19.1	13.9	12.2
57.5°	5940.3	4124.0	199.7	100.7	59.0	41.7	27.8	19.1	13.9	8.7	6.9
60°	6553.2	4436.6	175.4	79.9	48.6	31.3	20.8	13.9	10.4	5.2	5.2
62.5°	7185.3	4802.9	144.1	62.5	38.2	24.3	15.6	10.4	6.9	1.7	1.7
65°	8063.9	5089.4	111.1	48.6	29.5	17.4	12.2	8.7	3.5	0.0	0.0
67.5°	8312.2	4948.8	81.6	38.2	20.8	12.2	8.7	5.2	1.7	0.0	0.0
69°	8063.9	4457.4	71.2	33.0	17.4	10.4	6.9	3.5	1.7	0.0	0.0
70°	7610.7	4075.4	62.5	27.8	15.6	10.4	5.2	3.5	1.7	0.0	0.0
72.5°	6365.7	3125.6	48.6	20.8	12.2	8.7	5.2	3.5	0.0	0.0	0.0
75°	4669.2	1930.9	36.5	15.6	10.4	6.9	5.2	3.5	0.0	0.0	0.0
77.5°	2502.2	705.0	26.0	10.4	6.9	5.2	5.2	3.5	0.0	0.0	0.0
80°	685.9	208.4	19.1	6.9	5.2	3.5	3.5	1.7	0.0	0.0	0.0
82.5°	187.5	53.8	12.2	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0
85°	100.7	20.8	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	52.1	6.9	5.2	3.5	3.5	1.7	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)