

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: P483639

Luminaire Tested: **IFLD-M-SA4D-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483639
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

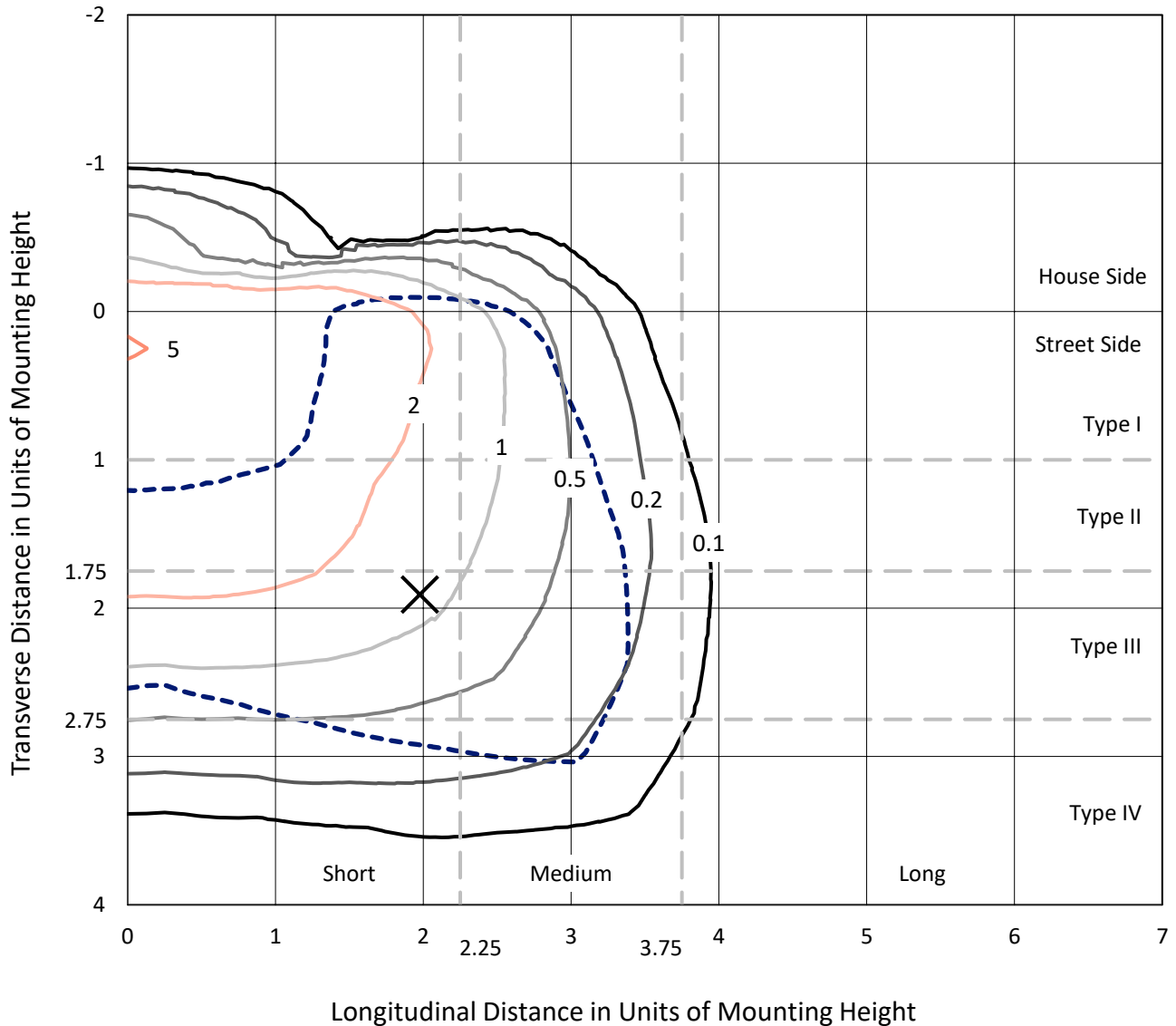
Lumens per Lamp: N/A
Luminaire Lumens: 23082.4 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

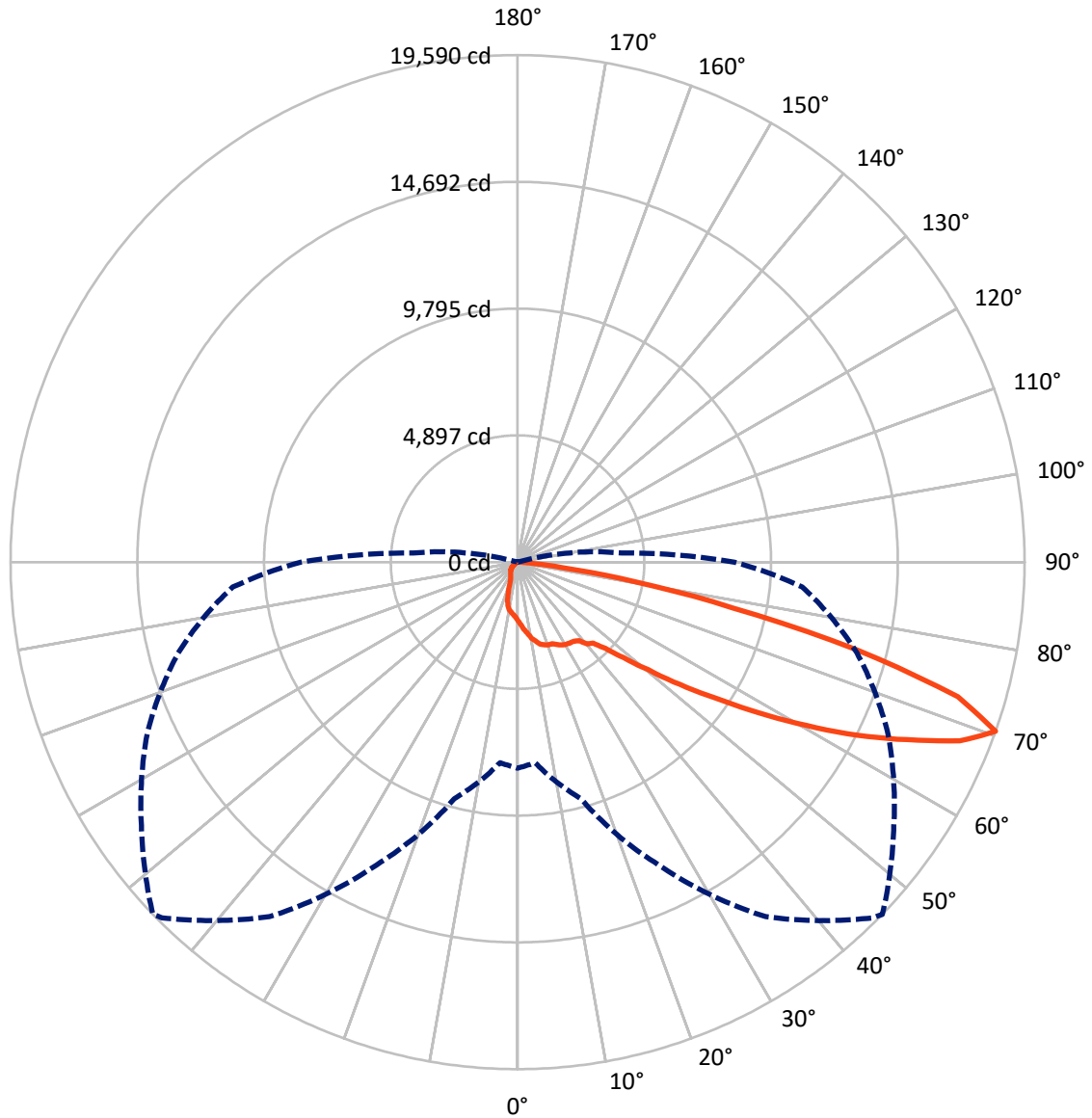
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2296.8	0.0	2296.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	20785.6	0.0	20785.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	23082.4	0.0	23082.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	1.0
10°-20°	682.3	3.0
20°-30°	1092.9	4.7
30°-40°	1560.0	6.8
40°-50°	2693.8	11.7
50°-60°	5157.4	22.3
60°-70°	7637.3	33.1
70°-80°	3782.7	16.4
80°-90°	250.0	1.1
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°	23082.4	100.0
0°-180°	23082.4	100.0

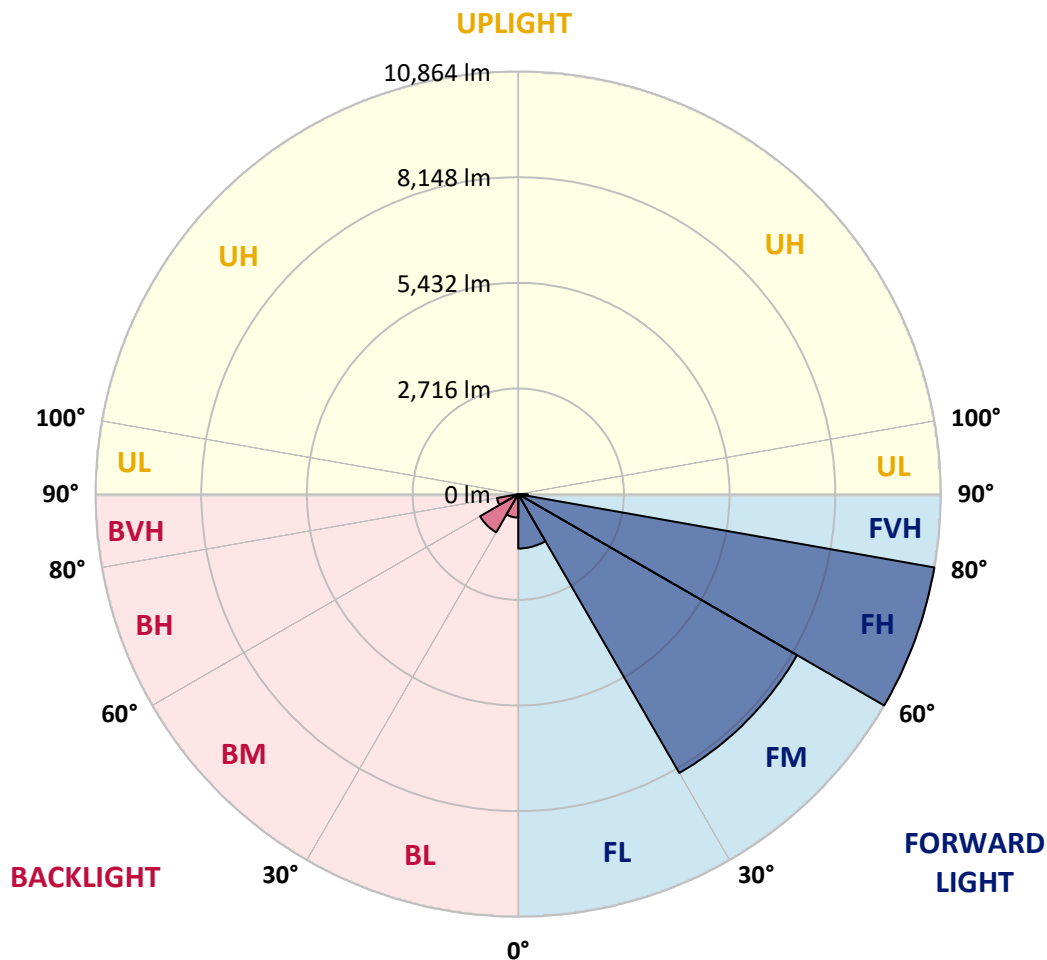


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.8	6.1			
FM (30°-60°)	8277.3	35.9			
FH (60°-80°)	10863.8	47.1			G4/12000
FVH (80°-90°)	246.8	1.1			G3/500
BL (0°-30°)	603.4	2.6	B2/1000		
BM (30°-60°)	1133.9	4.9	B2/2500		
BH (60°-80°)	556.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.2	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0
2.5°	2528.5	2511.8	2485.3	2475.3	2448.7	2435.4	2415.5	2405.5	2369.0	2332.4	2309.2
5°	2837.4	2797.6	2810.9	2771.0	2684.6	2614.8	2611.5	2535.1	2452.0	2385.6	2295.9
7.5°	3149.8	3116.5	3066.7	3010.2	2913.9	2810.9	2781.0	2707.9	2591.6	2475.3	2355.7
10°	3385.7	3362.4	3319.2	3239.5	3106.6	2990.3	2993.6	2870.7	2747.7	2614.8	2452.0
12.5°	3531.9	3541.8	3478.7	3399.0	3282.7	3136.5	3133.2	3050.1	2910.5	2771.0	2578.3
15°	3678.1	3714.6	3618.2	3525.2	3375.7	3269.4	3289.3	3189.6	3053.4	2893.9	2681.3
17.5°	3701.3	3711.3	3691.3	3555.1	3445.5	3355.8	3359.1	3292.6	3189.6	3016.9	2834.1
20°	3661.4	3654.8	3631.5	3531.9	3458.8	3405.6	3408.9	3392.3	3335.8	3196.3	2947.1
22.5°	3545.2	3545.2	3515.2	3448.8	3415.6	3465.4	3425.5	3488.7	3428.9	3345.8	3139.8
25°	3452.1	3488.7	3472.1	3428.9	3442.2	3508.6	3528.5	3588.3	3578.4	3475.4	3272.7
27.5°	3551.8	3508.6	3518.6	3468.7	3518.6	3618.2	3628.2	3671.4	3668.1	3585.0	3392.3
30°	3618.2	3658.1	3581.7	3472.1	3525.2	3694.7	3688.0	3744.5	3771.1	3671.4	3505.3
32.5°	3830.9	3797.7	3734.5	3588.3	3595.0	3691.3	3721.2	3794.3	3811.0	3751.1	3614.9
35°	4266.1	4216.3	3940.5	3721.2	3688.0	3734.5	3754.5	3897.3	3927.2	3860.8	3731.2
37.5°	4937.3	4824.3	4492.1	4007.0	3857.5	3847.5	3847.5	4036.9	4149.9	3997.0	3904.0
40°	5897.5	5738.0	5379.2	4535.3	4080.1	4120.0	4159.8	4262.8	4249.5	4149.9	4129.9
42.5°	7120.2	6997.3	6608.5	5422.4	4505.4	4306.0	4272.8	4412.3	4621.7	4581.8	4568.5
45°	8140.2	8146.9	7897.7	6638.4	5239.6	4734.6	4757.9	4864.2	5216.4	5186.5	5183.2
47.5°	8884.5	8791.4	8754.9	7811.3	6309.5	5548.6	5515.4	5588.5	6047.0	6236.4	6322.8
50°	9562.3	9499.1	9412.8	8950.9	7595.3	6568.7	6535.4	6542.1	7243.1	7508.9	7721.6
52.5°	10402.9	10482.6	10196.9	9914.5	9259.9	7894.4	7857.8	7728.2	8598.7	8964.2	9216.7
55°	11439.5	11290.0	10967.7	11113.9	10851.4	9326.4	9259.9	9107.1	10143.7	10296.6	10562.4
57.5°	11668.8	11555.8	11888.1	12406.4	12658.9	11007.6	10981.0	10705.2	11442.8	11303.3	12054.2
60°	12240.2	12270.1	12732.0	13762.0	14200.5	12947.9	12818.4	12333.3	12702.1	12728.7	13529.4
62.5°	12828.3	12758.6	13791.9	14782.0	15456.5	14785.3	14742.1	13778.6	14197.2	13858.3	14918.2
65°	12396.4	12502.7	13981.3	15639.2	17084.5	16582.8	16546.3	15170.7	15400.0	14978.0	15483.0
67.5°	10861.4	10645.4	12715.4	15247.1	17921.8	18466.7	18426.8	16689.1	16077.8	14971.4	14310.2
70°	7960.8	7774.7	9462.6	12911.4	16722.3	19430.2	19589.7	17745.7	15802.0	13575.9	11040.8
72.5°	3900.7	3904.0	5302.8	8754.9	13230.4	17709.1	17788.9	16270.5	13575.9	10007.5	6253.0
75°	1152.9	1166.2	1963.6	4292.7	8552.2	13449.6	13539.4	12349.9	9409.4	5169.9	2133.1
77.5°	422.0	422.0	651.2	1611.4	4266.1	8489.1	8482.4	7582.0	4764.5	1751.0	498.4
80°	219.3	229.3	338.9	657.9	1847.3	4422.3	4588.4	3711.3	1810.8	737.6	146.2
82.5°	89.7	99.7	186.1	338.9	887.1	1551.6	1697.8	1455.3	787.4	515.0	66.5
85°	26.6	29.9	89.7	189.4	348.9	388.7	431.9	488.4	495.1	398.7	29.9
87.5°	3.3	3.3	36.5	63.1	76.4	83.1	96.4	96.4	252.5	279.1	16.6
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°	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0	2266.0
2.5°	2282.6	2266.0	2239.4	2179.6	2166.3	2123.1	2119.8	2079.9	2093.2	2066.6	2056.7
5°	2266.0	2229.4	2156.3	2109.8	2063.3	2033.4	2013.5	1996.8	1993.5	1980.2	1973.6
7.5°	2295.9	2246.0	2133.1	2060.0	1980.2	1953.7	1910.5	1907.1	1883.9	1860.6	1860.6
10°	2395.6	2305.8	2182.9	2060.0	1957.0	1870.6	1770.9	1697.8	1671.2	1611.4	1618.1
12.5°	2475.3	2395.6	2216.1	2089.9	1933.7	1737.7	1518.4	1349.0	1269.2	1192.8	1222.7
15°	2588.3	2472.0	2279.3	2096.5	1844.0	1505.1	1146.3	956.9	883.8	867.2	863.9
17.5°	2711.2	2588.3	2359.0	2079.9	1661.3	1162.9	843.9	734.3	747.6	767.5	764.2
20°	2847.4	2697.9	2418.8	2023.4	1372.2	843.9	691.1	687.8	707.7	737.6	744.2
22.5°	2990.3	2860.7	2491.9	1854.0	1023.3	677.8	664.5	664.5	677.8	714.3	707.7
25°	3149.8	2977.0	2528.5	1591.5	734.3	624.6	631.3	644.6	651.2	681.1	684.4
27.5°	3272.7	3106.6	2538.4	1275.9	598.1	578.1	594.7	611.3	621.3	644.6	654.5
30°	3385.7	3269.4	2485.3	950.2	548.2	538.3	544.9	568.2	588.1	608.0	608.0
32.5°	3528.5	3362.4	2362.3	674.5	518.3	501.7	498.4	508.3	531.6	554.9	554.9
35°	3674.7	3518.6	2166.3	541.6	491.7	468.5	455.2	445.2	455.2	471.8	485.1
37.5°	3887.4	3754.5	1920.4	498.4	471.8	438.6	412.0	388.7	372.1	368.8	378.8
40°	4189.7	4020.3	1604.8	468.5	448.5	408.7	368.8	328.9	292.4	269.1	272.4
42.5°	4648.2	4412.3	1262.6	451.9	431.9	375.4	319.0	262.5	216.0	192.7	192.7
45°	5302.8	4930.7	927.0	435.3	412.0	335.6	262.5	196.0	149.5	136.2	139.5
47.5°	6289.6	5555.3	664.5	408.7	385.4	292.4	206.0	139.5	109.6	103.0	106.3
50°	7578.7	6296.2	518.3	378.8	352.2	245.9	152.8	103.0	86.4	83.1	86.4
52.5°	8931.0	7043.8	455.2	352.2	302.4	196.0	113.0	83.1	73.1	69.8	73.1
55°	10087.2	7525.6	395.4	312.3	242.5	146.2	89.7	73.1	63.1	53.2	53.2
57.5°	11256.8	7768.1	312.3	259.2	179.4	109.6	76.4	63.1	53.2	43.2	39.9
60°	12207.0	7940.9	222.6	192.7	126.3	86.4	66.5	56.5	43.2	33.2	29.9
62.5°	12831.7	7445.8	162.8	146.2	93.0	73.1	56.5	46.5	33.2	23.3	23.3
65°	12522.7	6761.4	126.3	103.0	69.8	56.5	46.5	33.2	23.3	13.3	10.0
67.5°	11236.8	5508.8	103.0	76.4	53.2	43.2	36.5	26.6	13.3	3.3	3.3
70°	8382.8	4036.9	83.1	56.5	43.2	33.2	26.6	16.6	6.6	3.3	0.0
72.5°	4585.1	2209.5	66.5	46.5	33.2	26.6	19.9	13.3	6.6	0.0	0.0
75°	1515.1	588.1	49.8	33.2	19.9	16.6	13.3	10.0	3.3	0.0	0.0
77.5°	365.5	152.8	39.9	29.9	16.6	10.0	6.6	3.3	3.3	0.0	0.0
80°	113.0	63.1	29.9	19.9	13.3	10.0	3.3	0.0	0.0	0.0	0.0
82.5°	46.5	29.9	13.3	13.3	10.0	3.3	0.0	0.0	0.0	0.0	0.0
85°	23.3	16.6	10.0	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	6.6	3.3	3.3	0.0	0.0	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)