

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: P483139

Luminaire Tested: **IFLD-L-SA8A-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483139
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

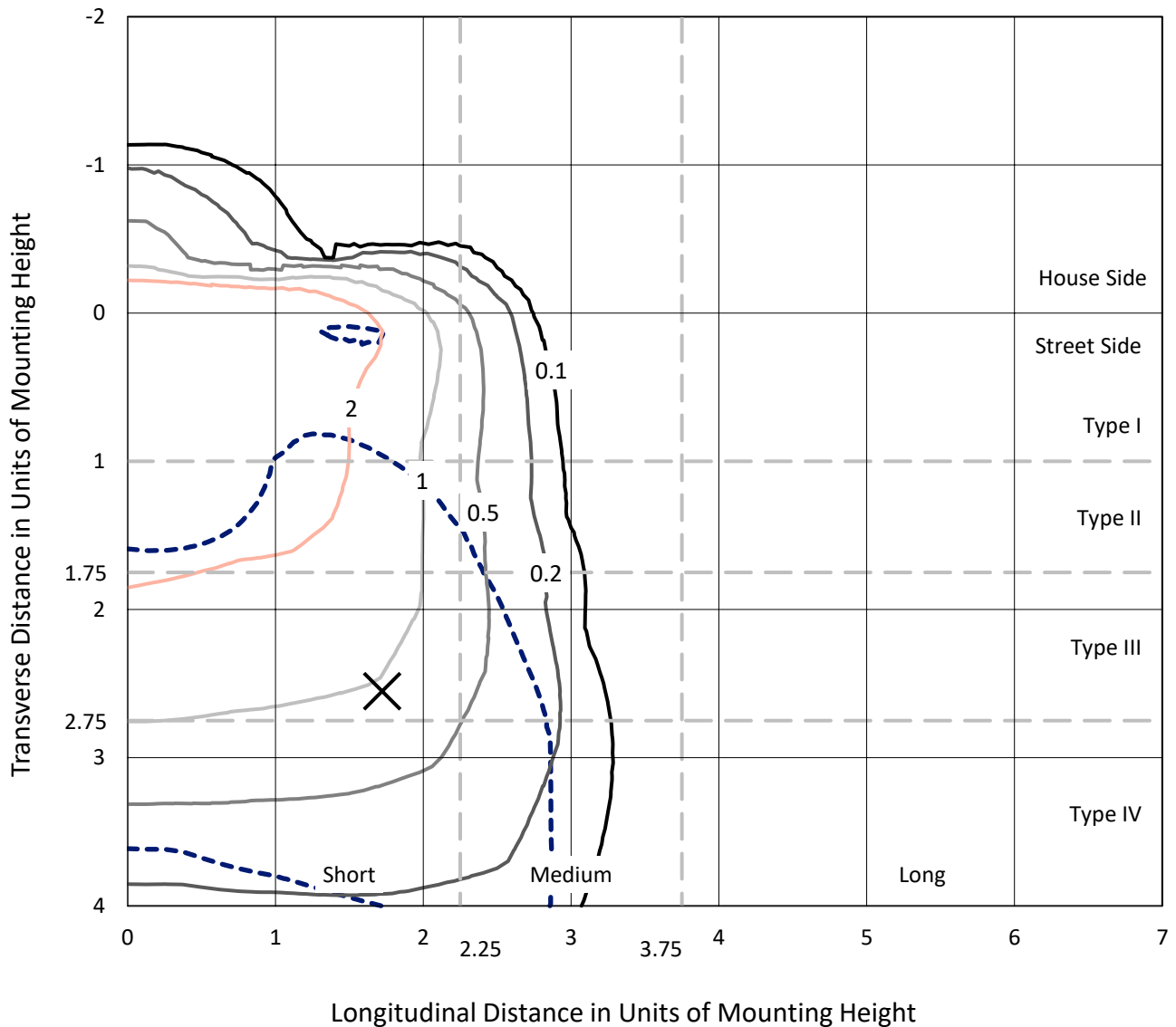
Lumens per Lamp: N/A
Luminaire Lumens: 20715.4 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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: P483139
 CATALOG NUMBER: IFLD-L-SA8A-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

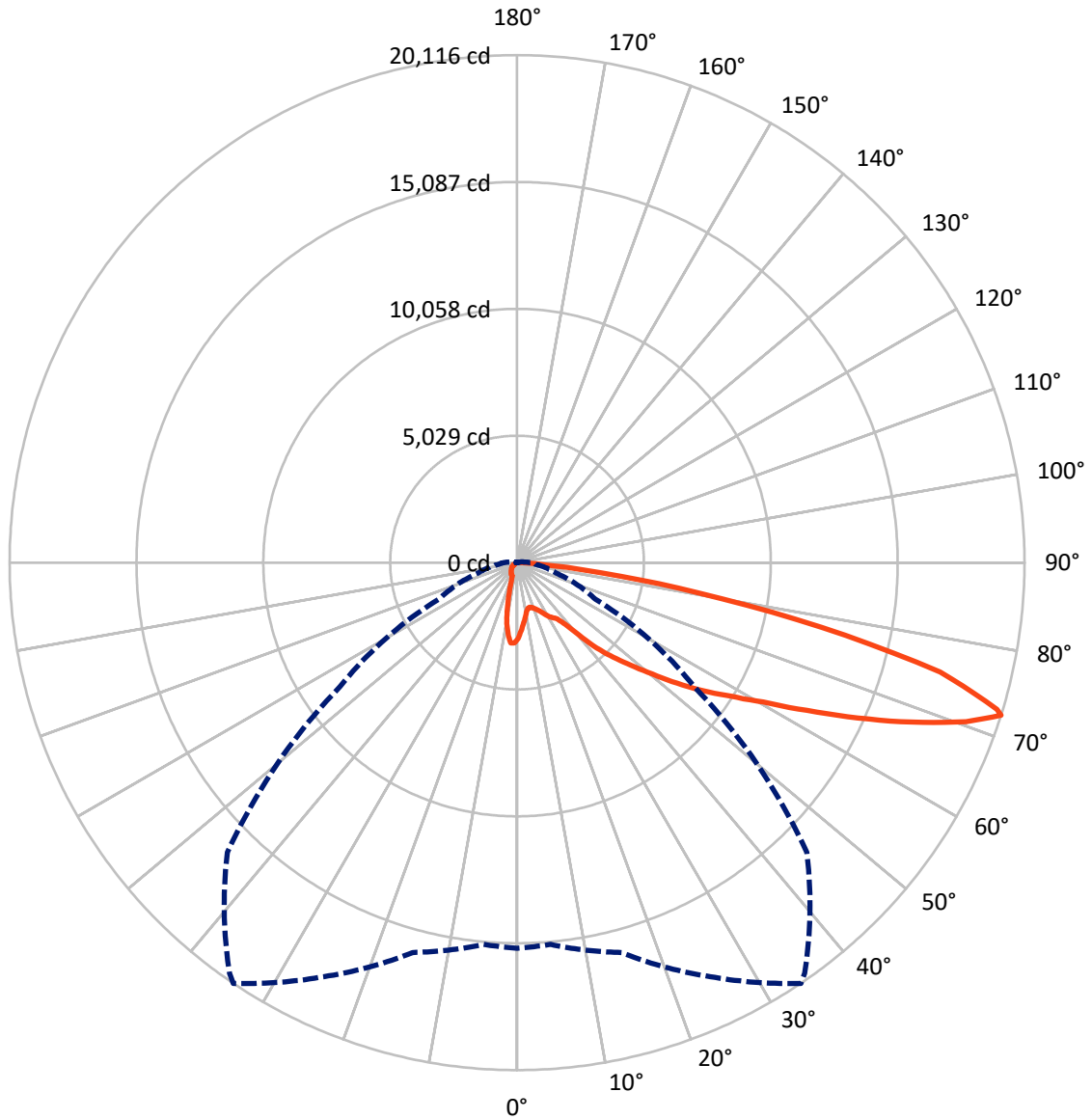
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P483139
CATALOG NUMBER: IFLD-L-SA8A-727-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P483139
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2120.8	0.0	2120.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	18594.6	0.0	18594.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	20715.4	0.0	20715.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.3
10°-20°	595.6	2.9
20°-30°	899.0	4.3
30°-40°	1459.0	7.0
40°-50°	2743.5	13.2
50°-60°	4485.7	21.7
60°-70°	5963.1	28.8
70°-80°	3993.4	19.3
80°-90°	313.0	1.5
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°	20715.4	100.0
0°-180°	20715.4	100.0

Coefficient of Utilization

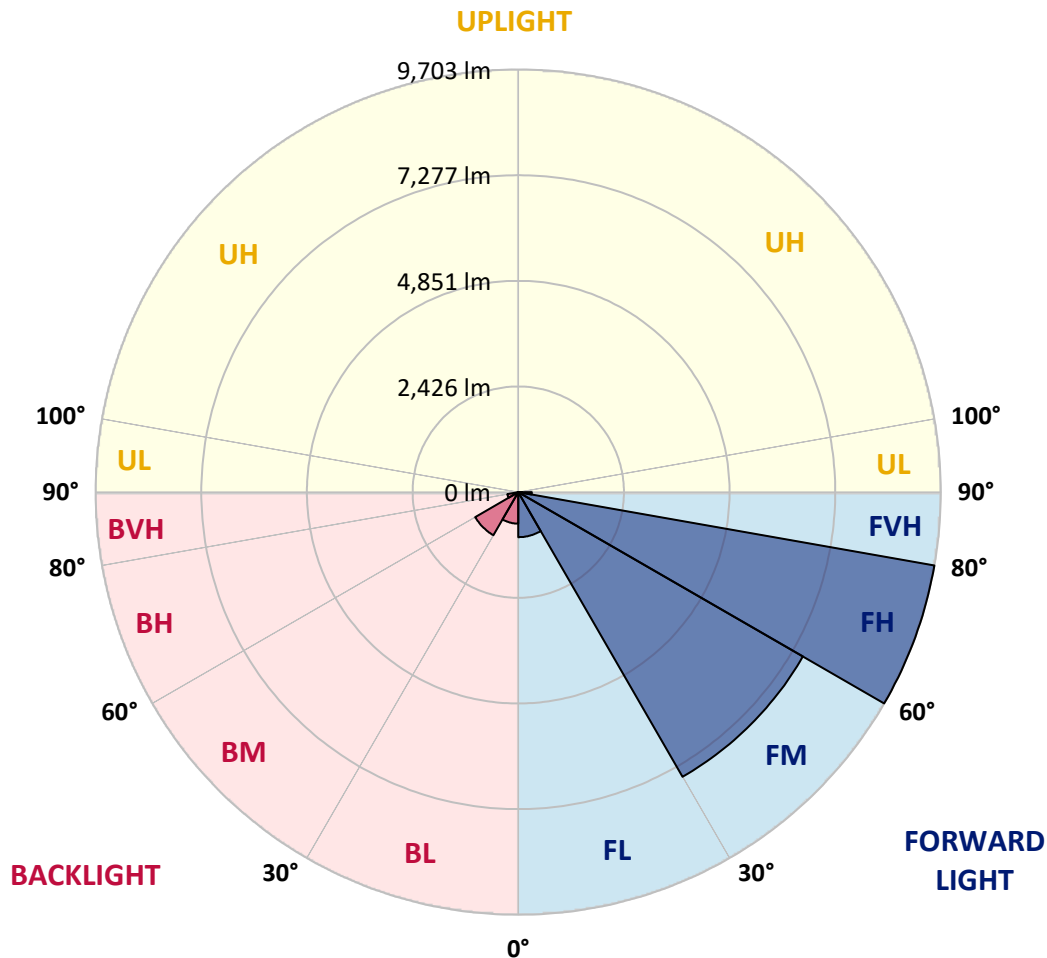


REPORT NUMBER: P483139
 CATALOG NUMBER: IFLD-L-SA8A-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.1	5.0			
FM (30°-60°)	7546.6	36.4			
FH (60°-80°)	9702.9	46.8			G4/12000
FVH (80°-90°)	311.0	1.5			G3/500
BL (0°-30°)	723.6	3.5	B2/1000		
BM (30°-60°)	1141.6	5.5	B2/2500		
BH (60°-80°)	253.6	1.2	B1/500		G1/500
BVH (80°-90°)	2.0	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





REPORT NUMBER: P483139

CATALOG NUMBER: IFLD-L-SA8A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7
2.5°	2680.3	2674.3	2692.3	2722.2	2752.2	2740.2	2797.1	2857.0	2898.9	2955.8	3024.7
5°	2341.9	2356.9	2374.8	2434.7	2473.7	2482.6	2587.5	2665.3	2794.1	2925.9	3048.6
7.5°	2033.4	2051.4	2087.3	2153.2	2234.1	2255.0	2359.9	2515.6	2683.3	2857.0	3057.6
10°	1808.8	1826.8	1865.7	1907.6	2015.5	2015.5	2159.2	2374.8	2593.4	2797.1	3060.6
12.5°	1760.9	1769.9	1766.9	1799.8	1868.7	1883.7	2024.4	2261.0	2515.6	2776.1	3108.5
15°	1817.8	1823.8	1793.8	1775.9	1835.8	1850.7	1982.5	2192.1	2464.7	2788.1	3186.4
17.5°	1931.6	1910.6	1850.7	1823.8	1874.7	1883.7	2006.5	2189.2	2458.7	2821.0	3276.2
20°	1997.5	2021.4	1916.6	1865.7	1937.6	1949.6	2081.3	2237.1	2488.6	2877.9	3402.0
22.5°	2114.3	2126.3	1985.5	1952.6	2021.4	2021.4	2171.2	2332.9	2560.5	2970.8	3551.8
25°	2279.0	2264.0	2099.3	2066.4	2132.3	2159.2	2308.9	2485.6	2671.3	3057.6	3689.5
27.5°	2407.8	2416.8	2282.0	2195.1	2305.9	2323.9	2485.6	2650.3	2755.2	3129.5	3857.2
30°	2599.4	2581.5	2437.7	2338.9	2476.6	2479.6	2635.4	2806.1	2916.9	3258.3	4108.8
32.5°	2827.0	2791.1	2626.4	2485.6	2596.4	2623.4	2782.1	3030.7	3168.4	3500.8	4498.1
35°	3309.2	3222.3	2952.8	2734.2	2743.2	2755.2	3000.7	3357.1	3515.8	3809.3	5019.2
37.5°	4012.9	3977.0	3671.5	3255.3	3096.6	3060.6	3336.1	3788.3	3986.0	4216.6	5696.0
40°	4710.7	4659.8	4375.3	4060.9	3773.4	3701.5	3839.3	4360.3	4540.0	4782.6	6390.8
42.5°	5486.4	5396.5	5061.1	4806.6	4626.9	4549.0	4495.1	5079.1	5282.7	5447.4	7070.6
45°	6271.0	6124.2	5639.1	5444.4	5348.6	5306.7	5300.7	5983.5	6106.3	6139.2	7825.3
47.5°	6959.8	6801.1	6360.8	6142.2	6070.3	6058.4	6393.8	7025.7	6929.8	6843.0	8666.8
50°	7489.8	7388.0	7070.6	6992.7	6938.8	6917.8	7702.5	8097.8	7654.6	7501.8	9406.5
52.5°	8310.4	8082.8	7723.4	7750.4	7939.1	7942.0	9029.1	9116.0	8256.5	7954.0	10104.2
55°	8966.2	8816.5	8523.0	8484.1	8981.2	9035.1	10218.0	9888.6	8591.9	8385.3	10361.8
57.5°	9738.9	9670.0	9457.4	9463.4	9984.5	10098.3	11275.2	10541.5	8870.4	8663.8	10400.7
60°	10855.9	10658.3	10547.5	10598.4	11212.3	11323.1	12299.4	11011.7	9005.2	8846.5	10304.9
62.5°	12089.8	11859.2	11739.4	11999.9	12895.3	12913.3	13078.0	11427.9	8921.3	8894.4	9688.0
65°	13575.1	13347.5	13251.7	13775.8	14838.9	14773.0	14171.1	11604.6	8654.8	8412.2	8067.8
67.5°	15054.5	14916.8	14719.1	15554.7	16878.3	16878.3	15306.1	11538.7	7957.0	6753.1	5276.7
70°	15755.3	15851.1	16165.6	17477.3	18881.8	18738.1	16426.1	10781.1	5923.6	3626.6	2075.4
72°	15288.1	15189.3	16000.9	18106.2	20115.7	19879.1	16237.5	8570.9	3423.0	1590.2	721.7
72.5°	14485.5	14578.4	15695.4	18019.3	19885.1	20079.7	15776.3	7906.1	2815.1	1266.8	545.0
75°	8882.4	9041.1	11715.4	15300.1	17327.6	17108.9	12203.6	3767.4	1081.1	539.1	194.7
77.5°	3243.3	3375.1	5684.0	9628.1	12323.3	12185.6	7061.6	1338.6	587.0	401.3	98.8
80°	844.5	913.4	1931.6	4441.2	7247.3	7256.3	2955.8	536.1	398.3	329.4	59.9
82.5°	167.7	185.7	593.0	1728.0	3387.0	3342.1	934.4	287.5	299.5	269.5	41.9
85°	21.0	27.0	125.8	587.0	1096.1	982.3	230.6	143.7	221.6	209.6	27.0
87.5°	3.0	3.0	29.9	134.8	230.6	224.6	47.9	44.9	98.8	128.8	15.0
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: P483139

CATALOG NUMBER: IFLD-L-SA8A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7
2.5°	3063.6	3075.6	3117.5	3153.5	3195.4	3207.4	3189.4	3219.3	3177.4	3201.4	3207.4
5°	3069.6	3138.5	3216.3	3267.3	3255.3	3225.3	3201.4	3120.5	3063.6	3042.7	3087.6
7.5°	3111.5	3189.4	3273.2	3273.2	3207.4	3051.6	2901.9	2758.2	2638.4	2578.5	2629.4
10°	3165.4	3246.3	3333.1	3219.3	2973.8	2689.3	2476.6	2207.1	2024.4	1928.6	1937.6
12.5°	3237.3	3351.1	3381.1	3117.5	2710.2	2288.0	1901.7	1527.3	1353.6	1215.9	1218.9
15°	3330.1	3441.0	3351.1	2895.9	2374.8	1751.9	1287.7	931.4	793.6	721.7	721.7
17.5°	3452.9	3536.8	3342.1	2692.3	1922.6	1197.9	790.6	628.9	598.9	587.0	587.0
20°	3596.7	3659.6	3255.3	2374.8	1428.5	769.6	581.0	563.0	566.0	560.0	560.0
22.5°	3758.4	3779.4	3156.5	2006.5	967.3	569.0	542.0	545.0	548.0	542.0	545.0
25°	3929.1	3872.2	3012.7	1575.2	643.9	518.1	524.1	530.1	533.1	536.1	536.1
27.5°	4120.8	4007.0	2812.1	1153.0	503.1	488.1	506.1	524.1	527.1	527.1	524.1
30°	4402.3	4213.6	2617.4	781.6	443.2	455.2	485.1	506.1	521.1	521.1	518.1
32.5°	4758.6	4429.2	2344.9	533.1	410.3	416.3	440.2	482.2	515.1	518.1	509.1
35°	5252.8	4689.8	2060.4	425.3	386.3	389.3	404.3	437.2	494.1	512.1	509.1
37.5°	5773.9	4986.2	1707.0	383.3	368.4	365.4	374.3	401.3	452.2	497.1	500.1
40°	6327.9	5297.7	1335.7	362.4	353.4	347.4	350.4	362.4	401.3	458.2	470.2
42.5°	6849.0	5579.2	1003.2	341.4	338.4	332.4	332.4	335.4	356.4	395.3	401.3
45°	7412.0	5809.8	763.7	326.4	317.4	320.4	308.5	302.5	317.4	320.4	317.4
47.5°	7939.1	6040.4	610.9	308.5	299.5	299.5	284.5	272.5	272.5	245.6	242.6
50°	8433.2	6166.2	488.1	284.5	281.5	278.5	257.5	236.6	218.6	185.7	179.7
52.5°	8843.5	6160.2	377.3	254.6	263.5	254.6	221.6	191.7	164.7	134.8	128.8
55°	8966.2	5872.7	284.5	209.6	224.6	212.6	176.7	149.7	119.8	95.8	92.8
57.5°	8861.4	5435.4	215.6	161.7	173.7	161.7	134.8	110.8	83.9	65.9	59.9
60°	8511.0	4923.3	167.7	125.8	131.8	122.8	101.8	83.9	59.9	41.9	35.9
62.5°	7846.2	4282.5	128.8	98.8	95.8	95.8	77.9	62.9	41.9	24.0	21.0
65°	6438.7	3339.1	98.8	68.9	68.9	68.9	59.9	44.9	27.0	12.0	6.0
67.5°	4042.9	1943.6	80.9	53.9	50.9	50.9	41.9	29.9	15.0	3.0	0.0
70°	1521.3	712.7	62.9	41.9	38.9	38.9	29.9	18.0	9.0	0.0	0.0
72°	524.1	272.5	50.9	29.9	29.9	27.0	21.0	15.0	6.0	0.0	0.0
72.5°	431.2	218.6	47.9	29.9	27.0	27.0	21.0	15.0	6.0	0.0	0.0
75°	155.7	89.8	32.9	21.0	18.0	18.0	15.0	9.0	3.0	0.0	0.0
77.5°	77.9	56.9	27.0	18.0	15.0	9.0	9.0	6.0	3.0	0.0	0.0
80°	47.9	35.9	15.0	12.0	9.0	6.0	3.0	3.0	0.0	0.0	0.0
82.5°	32.9	21.0	9.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	9.0	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	6.0	3.0	0.0	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)