

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: P483210

Luminaire Tested: **IFLD-M-SA4D-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483210
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

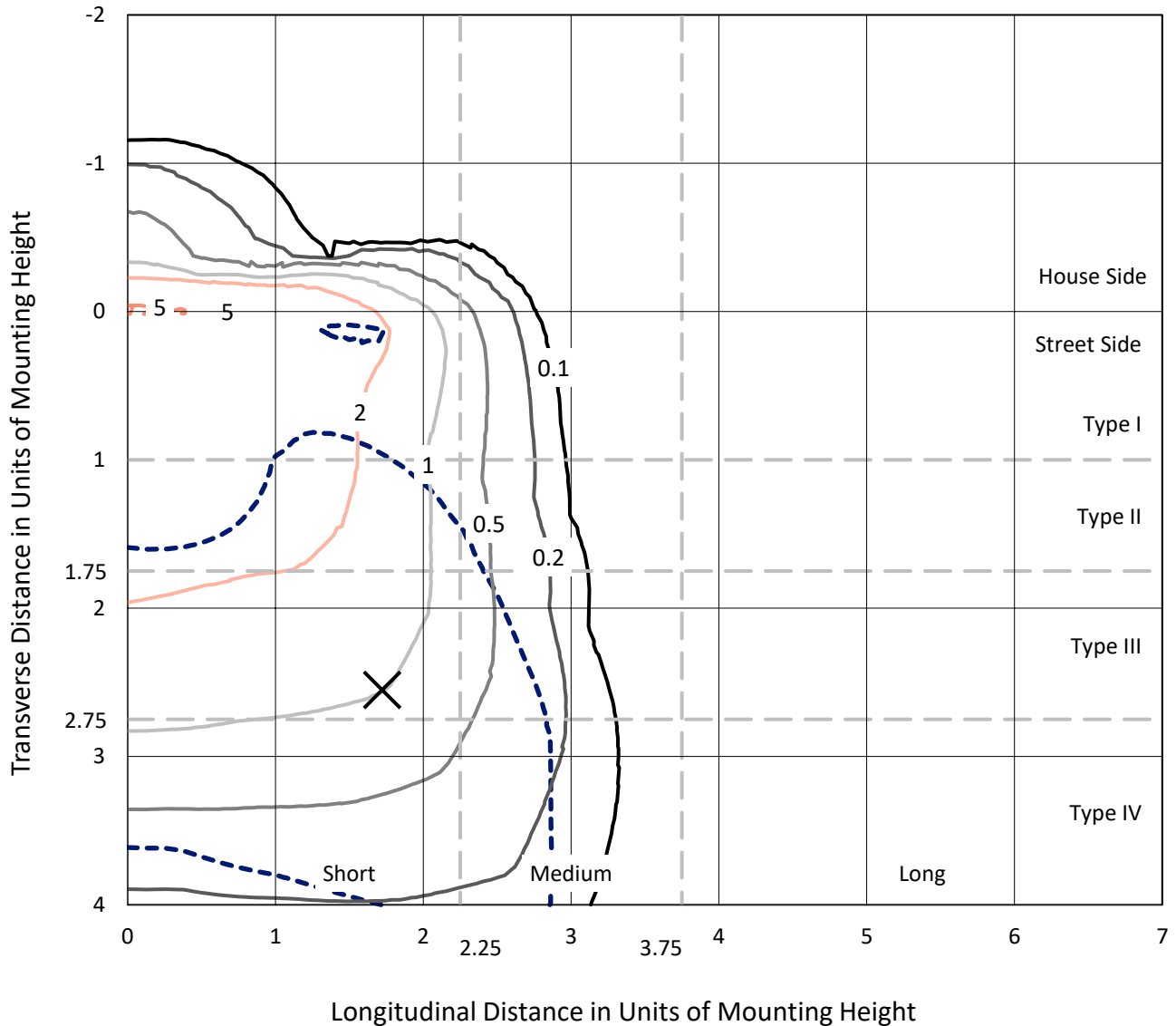
Lumens per Lamp: N/A
Luminaire Lumens: 22311.1 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

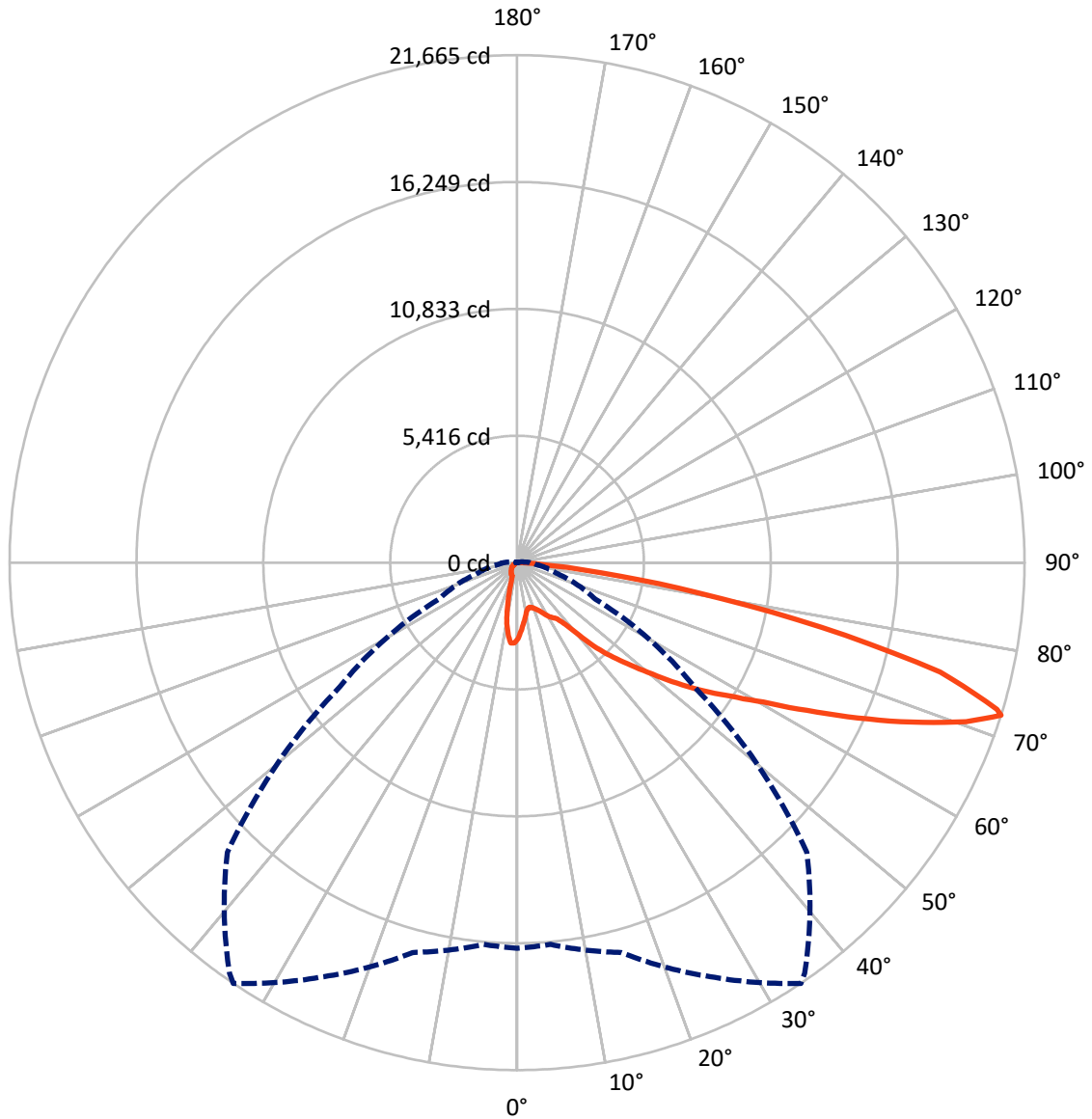
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2284.1	0.0	2284.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	20027.0	0.0	20027.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	22311.1	0.0	22311.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	1.3
10°-20°	641.5	2.9
20°-30°	968.3	4.3
30°-40°	1571.4	7.0
40°-50°	2954.8	13.2
50°-60°	4831.2	21.7
60°-70°	6422.4	28.8
70°-80°	4301.1	19.3
80°-90°	337.1	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°	22311.1	100.0
0°-180°	22311.1	100.0



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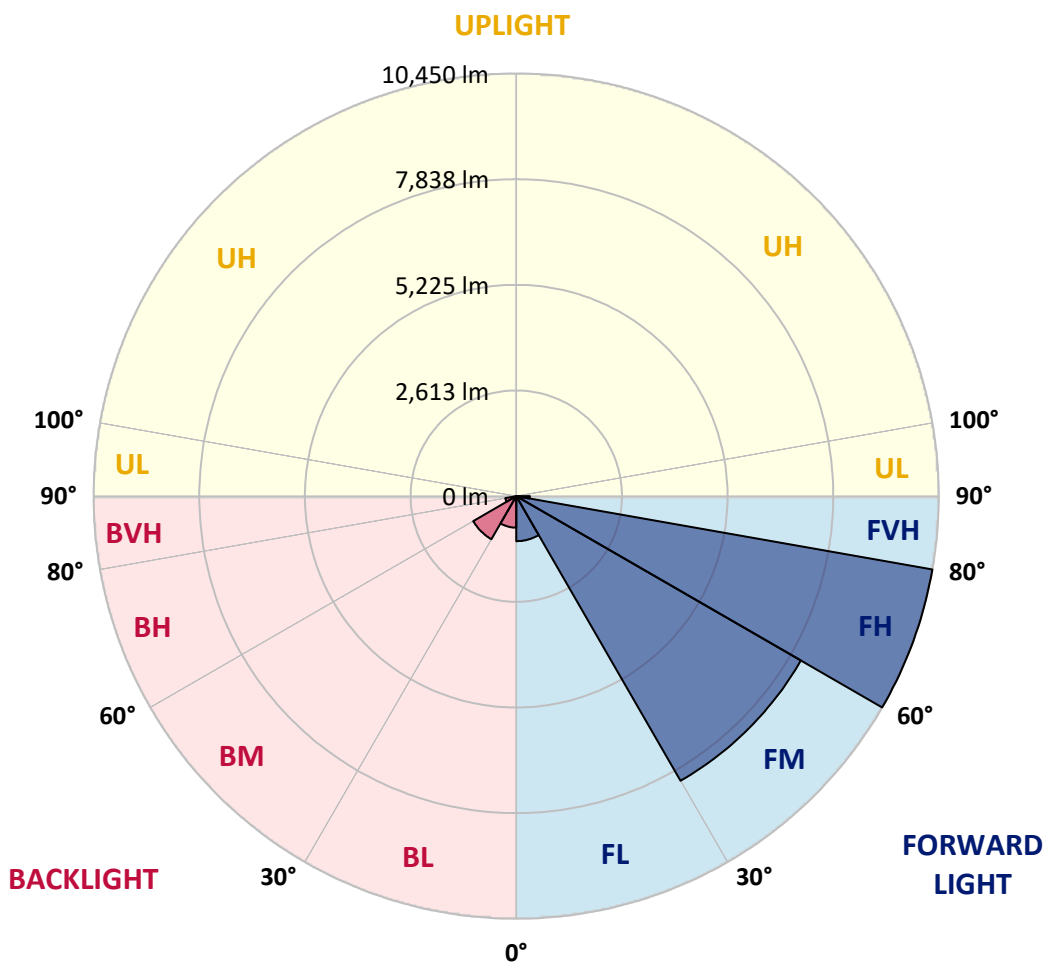
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.8	5.0			
FM (30°-60°)	8127.9	36.4			
FH (60°-80°)	10450.4	46.8			G4/12000
FVH (80°-90°)	334.9	1.5			G3/500
BL (0°-30°)	779.3	3.5	B2/1000		
BM (30°-60°)	1229.5	5.5	B2/2500		
BH (60°-80°)	273.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	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°	34°	35°	45°	55°	65°	75°	85°
0°	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1
2.5°	2886.8	2880.3	2899.7	2931.9	2964.2	2951.3	3012.6	3077.1	3122.2	3183.5	3257.7
5°	2522.3	2538.4	2557.8	2622.3	2664.2	2673.9	2786.8	2870.6	3009.3	3151.2	3283.5
7.5°	2190.1	2209.4	2248.1	2319.1	2406.2	2428.7	2541.6	2709.4	2890.0	3077.1	3293.2
10°	1948.2	1967.5	2009.4	2054.6	2170.7	2170.7	2325.5	2557.8	2793.2	3012.6	3296.4
12.5°	1896.6	1906.2	1903.0	1938.5	2012.7	2028.8	2180.4	2435.2	2709.4	2990.0	3348.0
15°	1957.8	1964.3	1932.0	1912.7	1977.2	1993.3	2135.2	2361.0	2654.5	3002.9	3431.9
17.5°	2080.4	2057.8	1993.3	1964.3	2019.1	2028.8	2161.0	2357.8	2648.1	3038.4	3528.6
20°	2151.4	2177.2	2064.3	2009.4	2086.9	2099.8	2241.7	2409.4	2680.3	3099.6	3664.1
22.5°	2277.2	2290.1	2138.5	2103.0	2177.2	2177.2	2338.4	2512.6	2757.7	3199.6	3825.4
25°	2454.6	2438.4	2261.0	2225.5	2296.5	2325.5	2486.8	2677.1	2877.1	3293.2	3973.7
27.5°	2593.2	2602.9	2457.8	2364.2	2483.6	2502.9	2677.1	2854.5	2967.4	3370.6	4154.4
30°	2799.7	2780.3	2625.5	2519.1	2667.4	2670.7	2838.4	3022.2	3141.6	3509.3	4425.3
32.5°	3044.8	3006.1	2828.7	2677.1	2796.4	2825.5	2996.4	3264.1	3412.5	3770.5	4844.6
35°	3564.1	3470.6	3180.3	2944.8	2954.5	2967.4	3231.9	3615.7	3786.7	4102.7	5405.8
37.5°	4322.1	4283.4	3954.4	3506.0	3335.1	3296.4	3593.1	4080.2	4293.0	4541.4	6134.8
40°	5073.6	5018.8	4712.4	4373.7	4064.0	3986.6	4135.0	4696.2	4889.7	5151.0	6883.1
42.5°	5909.0	5812.2	5451.0	5176.8	4983.3	4899.4	4841.4	5470.3	5689.7	5867.1	7615.2
45°	6754.0	6596.0	6073.5	5863.8	5760.6	5715.5	5709.0	6444.4	6576.6	6612.1	8428.0
47.5°	7495.9	7324.9	6850.8	6615.4	6537.9	6525.0	6886.3	7566.9	7463.6	7370.1	9334.4
50°	8066.8	7957.1	7615.2	7531.4	7473.3	7450.7	8295.8	8721.6	8244.2	8079.7	10131.1
52.5°	8950.6	8705.4	8318.4	8347.4	8550.6	8553.8	9724.7	9818.2	8892.5	8566.7	10882.6
55°	9656.9	9495.7	9179.6	9137.6	9673.1	9731.1	11005.2	10650.4	9253.8	9031.2	11160.0
57.5°	10489.1	10414.9	10185.9	10192.4	10753.6	10876.1	12143.7	11353.5	9553.7	9331.2	11201.9
60°	11692.2	11479.3	11360.0	11414.8	12076.0	12195.3	13246.8	11859.9	9698.9	9527.9	11098.7
62.5°	13021.1	12772.7	12643.7	12924.3	13888.7	13908.0	14085.4	12308.2	9608.6	9579.5	10434.3
65°	14620.9	14375.7	14272.5	14837.0	15982.0	15911.0	15262.7	12498.5	9321.5	9060.2	8689.3
67.5°	16214.2	16065.9	15853.0	16752.9	18178.5	18178.5	16485.2	12427.6	8570.0	7273.3	5683.2
70°	16969.0	17072.2	17410.9	18823.6	20336.3	20181.5	17691.5	11611.5	6379.9	3906.0	2235.2
72°	16465.8	16359.4	17233.5	19500.9	21665.2	21410.4	17488.3	9231.2	3686.7	1712.7	777.3
72.5°	15601.4	15701.4	16904.5	19407.4	21416.8	21626.5	16991.6	8515.1	3031.9	1364.4	587.0
75°	9566.6	9737.6	12617.9	16478.7	18662.3	18426.9	13143.6	4057.6	1164.4	580.6	209.7
77.5°	3493.1	3635.1	6121.9	10369.8	13272.6	13124.3	7605.6	1441.8	632.2	432.2	106.4
80°	909.6	983.8	2080.4	4783.3	7805.5	7815.2	3183.5	577.4	429.0	354.8	64.5
82.5°	180.6	200.0	638.6	1861.1	3648.0	3599.6	1006.3	309.6	322.5	290.3	45.2
85°	22.6	29.0	135.5	632.2	1180.5	1057.9	248.4	154.8	238.7	225.8	29.0
87.5°	3.2	3.2	32.3	145.1	248.4	241.9	51.6	48.4	106.4	138.7	16.1
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°	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1	3264.1
2.5°	3299.6	3312.5	3357.7	3396.4	3441.5	3454.4	3435.1	3467.3	3422.2	3448.0	3454.4
5°	3306.1	3380.2	3464.1	3518.9	3506.0	3473.8	3448.0	3360.9	3299.6	3277.0	3325.4
7.5°	3351.2	3435.1	3525.4	3525.4	3454.4	3286.7	3125.4	2970.6	2841.6	2777.1	2831.9
10°	3409.3	3496.4	3589.9	3467.3	3202.9	2896.4	2667.4	2377.1	2180.4	2077.2	2086.9
12.5°	3486.7	3609.3	3641.5	3357.7	2919.0	2464.2	2048.1	1645.0	1457.9	1309.5	1312.7
15°	3586.7	3706.0	3609.3	3119.0	2557.8	1886.9	1386.9	1003.1	854.7	777.3	777.3
17.5°	3718.9	3809.2	3599.6	2899.7	2070.7	1290.2	851.5	677.3	645.1	632.2	632.2
20°	3873.7	3941.5	3506.0	2557.8	1538.5	828.9	625.7	606.4	609.6	603.2	603.2
22.5°	4047.9	4070.5	3399.6	2161.0	1041.8	612.8	583.8	587.0	590.3	583.8	587.0
25°	4231.8	4170.5	3244.8	1696.6	693.5	558.0	564.4	570.9	574.1	577.4	577.4
27.5°	4438.2	4315.6	3028.7	1241.8	541.9	525.7	545.1	564.4	567.7	567.7	564.4
30°	4741.4	4538.2	2819.0	841.8	477.4	490.3	522.5	545.1	561.2	561.2	558.0
32.5°	5125.2	4770.4	2525.5	574.1	441.9	448.3	474.1	519.3	554.8	558.0	548.3
35°	5657.4	5051.0	2219.1	458.0	416.1	419.3	435.4	470.9	532.2	551.5	548.3
37.5°	6218.6	5370.3	1838.5	412.9	396.7	393.5	403.2	432.2	487.0	535.4	538.6
40°	6815.3	5705.8	1438.5	390.3	380.6	374.1	377.4	390.3	432.2	493.5	506.4
42.5°	7376.6	6009.0	1080.5	367.7	364.5	358.0	358.0	361.2	383.8	425.8	432.2
45°	7982.9	6257.3	822.5	351.6	341.9	345.1	332.2	325.8	341.9	345.1	341.9
47.5°	8550.6	6505.7	658.0	332.2	322.5	322.5	306.4	293.5	293.5	264.5	261.3
50°	9082.8	6641.2	525.7	306.4	303.2	300.0	277.4	254.8	235.5	200.0	193.5
52.5°	9524.7	6634.7	406.4	274.2	283.8	274.2	238.7	206.4	177.4	145.1	138.7
55°	9656.9	6325.1	306.4	225.8	241.9	229.0	190.3	161.3	129.0	103.2	100.0
57.5°	9544.0	5854.2	232.2	174.2	187.1	174.2	145.1	119.3	90.3	71.0	64.5
60°	9166.7	5302.6	180.6	135.5	141.9	132.2	109.7	90.3	64.5	45.2	38.7
62.5°	8450.6	4612.4	138.7	106.4	103.2	103.2	83.9	67.7	45.2	25.8	22.6
65°	6934.7	3596.4	106.4	74.2	74.2	74.2	64.5	48.4	29.0	12.9	6.5
67.5°	4354.3	2093.3	87.1	58.1	54.8	54.8	45.2	32.3	16.1	3.2	0.0
70°	1638.5	767.7	67.7	45.2	41.9	41.9	32.3	19.4	9.7	0.0	0.0
72°	564.4	293.5	54.8	32.3	32.3	29.0	22.6	16.1	6.5	0.0	0.0
72.5°	464.5	235.5	51.6	32.3	29.0	29.0	22.6	16.1	6.5	0.0	0.0
75°	167.7	96.8	35.5	22.6	19.4	19.4	16.1	9.7	3.2	0.0	0.0
77.5°	83.9	61.3	29.0	19.4	16.1	9.7	9.7	6.5	3.2	0.0	0.0
80°	51.6	38.7	16.1	12.9	9.7	6.5	3.2	3.2	0.0	0.0	0.0
82.5°	35.5	22.6	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
85°	22.6	9.7	6.5	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	6.5	3.2	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)