

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: P483646

Luminaire Tested: **IFLD-L-SA8A-740-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483646
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

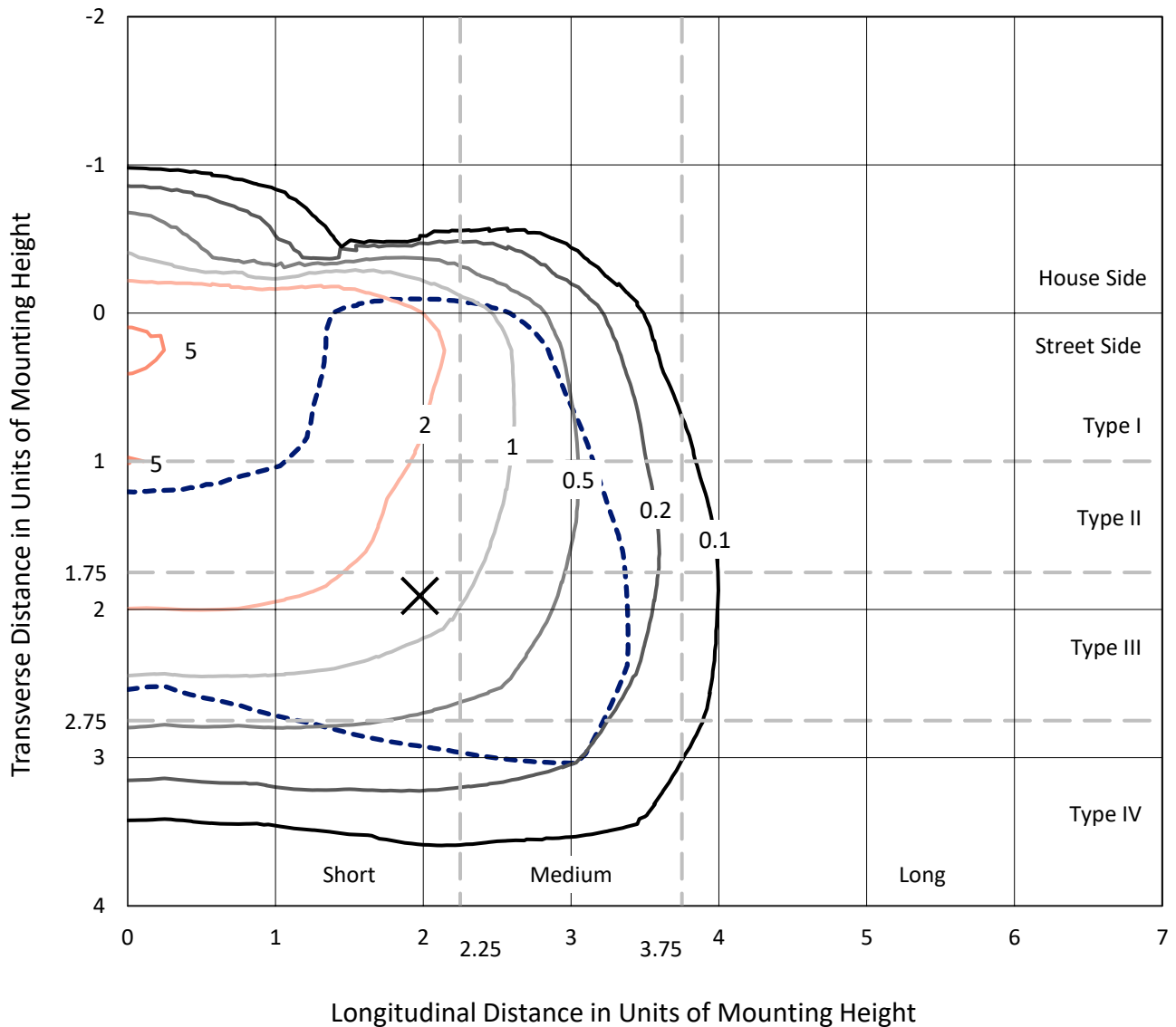
Lumens per Lamp: N/A
Luminaire Lumens: 25275.5 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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: P483646
 CATALOG NUMBER: IFLD-L-SA8A-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

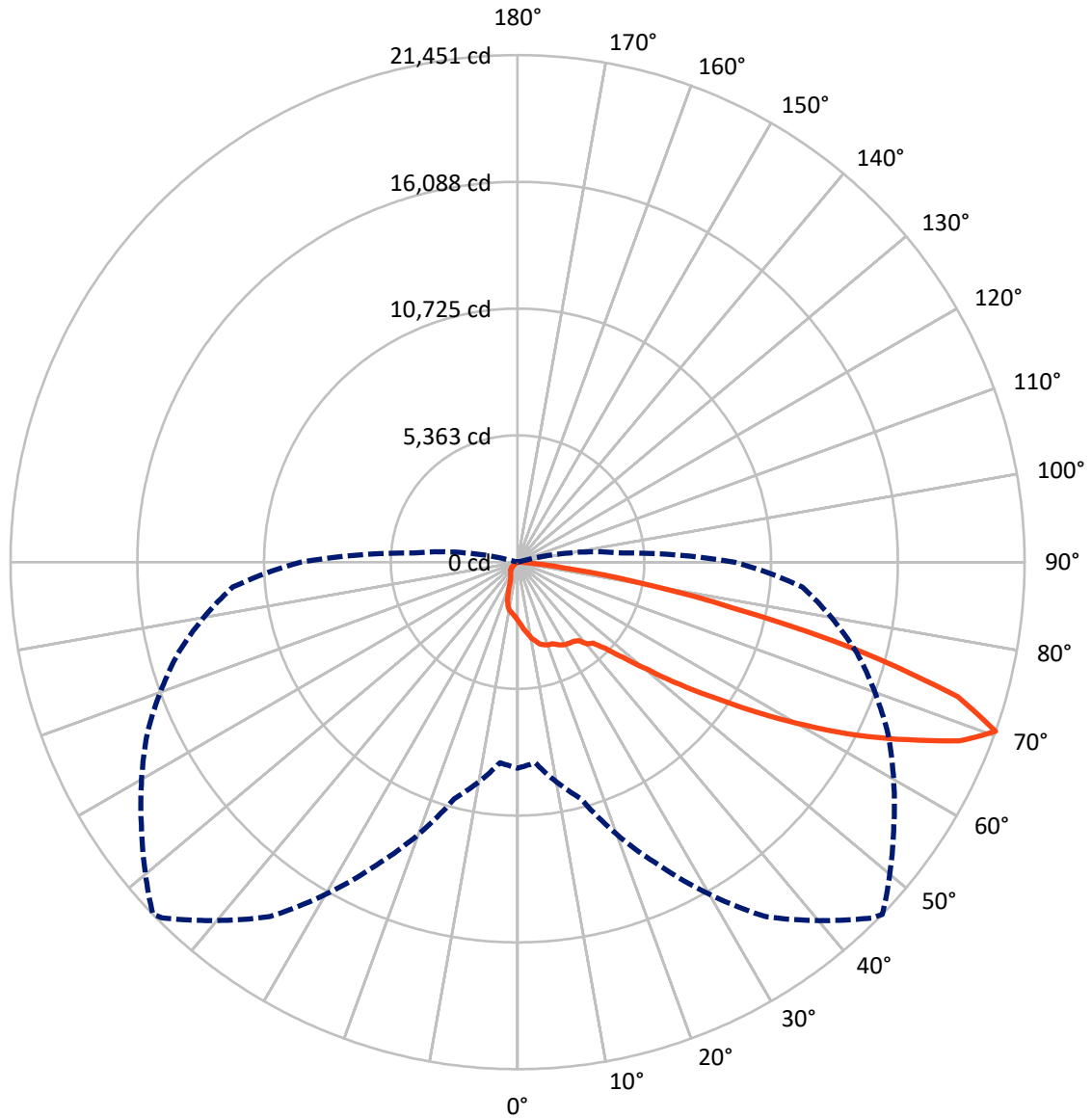
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P483646
CATALOG NUMBER: IFLD-L-SA8A-740-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483646
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2515.0	0.0	2515.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	22760.5	0.0	22760.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	25275.5	0.0	25275.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.0
10°-20°	747.2	3.0
20°-30°	1196.8	4.7
30°-40°	1708.2	6.8
40°-50°	2949.7	11.7
50°-60°	5647.4	22.3
60°-70°	8363.0	33.1
70°-80°	4142.1	16.4
80°-90°	273.7	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°	25275.5	100.0
0°-180°	25275.5	100.0

Coefficient of Utilization



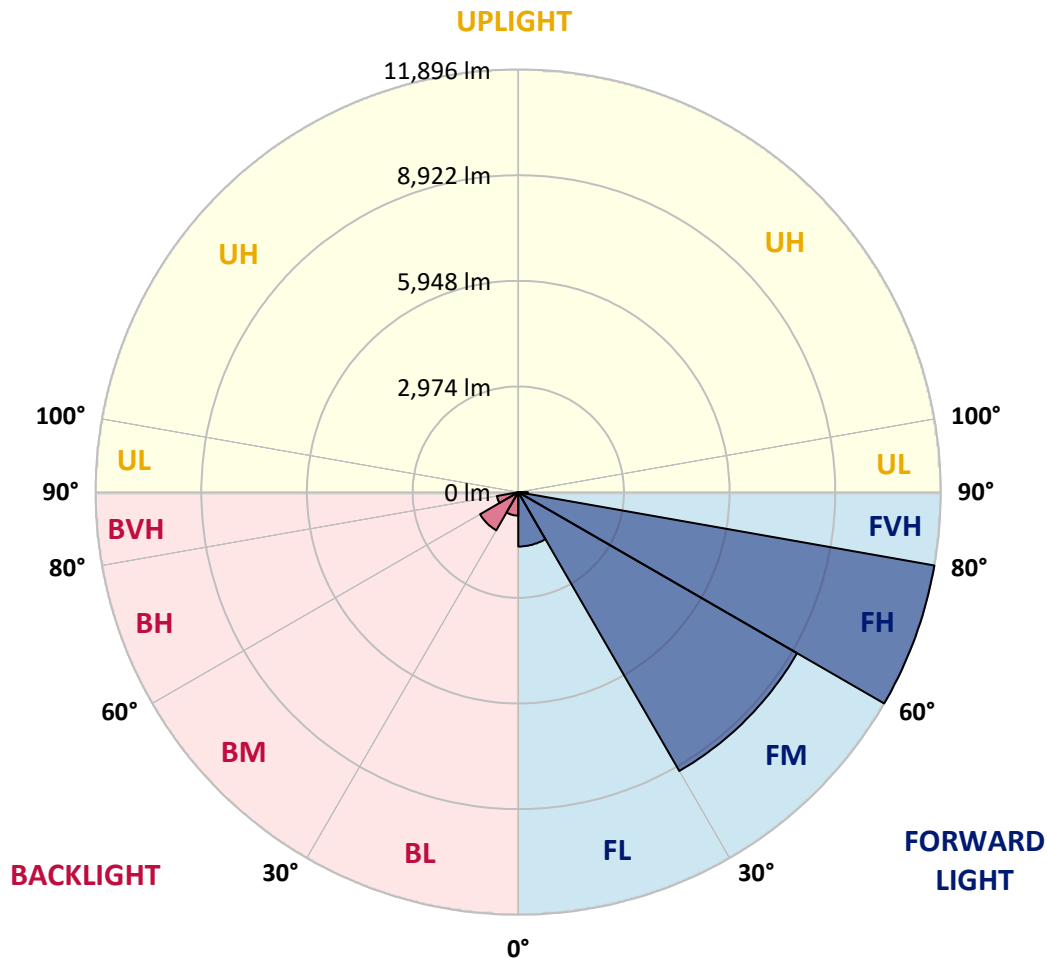
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 CATALOG NUMBER: IFLD-L-SA8A-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.6	6.1			
FM (30°-60°)	9063.7	35.9			
FH (60°-80°)	11895.9	47.1			G4/12000
FVH (80°-90°)	270.2	1.1			G3/500
BL (0°-30°)	660.7	2.6	B2/1000		
BM (30°-60°)	1241.7	4.9	B2/2500		
BH (60°-80°)	609.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.5	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: P483646

CATALOG NUMBER: IFLD-L-SA8A-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3
2.5°	2768.7	2750.5	2721.4	2710.5	2681.4	2666.8	2645.0	2634.1	2594.0	2554.0	2528.6
5°	3107.0	3063.4	3077.9	3034.3	2939.7	2863.3	2859.6	2776.0	2685.0	2612.2	2514.0
7.5°	3449.0	3412.6	3358.1	3296.2	3190.7	3077.9	3045.2	2965.1	2837.8	2710.5	2579.5
10°	3707.3	3681.9	3634.6	3547.3	3401.7	3274.4	3278.0	3143.4	3008.8	2863.3	2685.0
12.5°	3867.4	3878.3	3809.2	3721.9	3594.6	3434.5	3430.8	3339.9	3187.1	3034.3	2823.3
15°	4027.5	4067.5	3962.0	3860.1	3696.4	3580.0	3601.8	3492.7	3343.5	3168.9	2936.0
17.5°	4053.0	4063.9	4042.1	3892.9	3772.8	3674.6	3678.2	3605.5	3492.7	3303.5	3103.4
20°	4009.3	4002.0	3976.6	3867.4	3787.4	3729.2	3732.8	3714.6	3652.8	3500.0	3227.1
22.5°	3882.0	3882.0	3849.2	3776.5	3740.1	3794.7	3751.0	3820.1	3754.6	3663.7	3438.1
25°	3780.1	3820.1	3801.9	3754.6	3769.2	3842.0	3863.8	3929.3	3918.4	3805.6	3583.6
27.5°	3889.3	3842.0	3852.9	3798.3	3852.9	3962.0	3972.9	4020.2	4016.6	3925.6	3714.6
30°	3962.0	4005.7	3922.0	3801.9	3860.1	4045.7	4038.4	4100.3	4129.4	4020.2	3838.3
32.5°	4194.9	4158.5	4089.4	3929.3	3936.6	4042.1	4074.8	4154.8	4173.0	4107.5	3958.4
35°	4671.5	4616.9	4314.9	4074.8	4038.4	4089.4	4111.2	4267.6	4300.4	4227.6	4085.7
37.5°	5406.4	5282.7	4918.9	4387.7	4224.0	4213.1	4213.1	4420.4	4544.1	4376.8	4274.9
40°	6457.8	6283.2	5890.3	4966.2	4467.7	4511.4	4555.0	4667.8	4653.3	4544.1	4522.3
42.5°	7796.7	7662.1	7236.4	5937.6	4933.4	4715.1	4678.7	4831.6	5060.8	5017.1	5002.5
45°	8913.6	8920.9	8648.0	7269.2	5737.5	5184.5	5209.9	5326.4	5712.0	5679.3	5675.6
47.5°	9728.6	9626.7	9586.7	8553.4	6909.0	6075.8	6039.4	6119.5	6621.6	6828.9	6923.5
50°	10470.8	10401.7	10307.1	9801.4	8317.0	7192.8	7156.4	7163.7	7931.3	8222.4	8455.2
52.5°	11391.3	11478.6	11165.7	10856.4	10139.7	8644.4	8604.4	8462.5	9415.7	9815.9	10092.4
55°	12526.4	12362.7	12009.8	12169.8	11882.4	10212.5	10139.7	9972.4	11107.5	11274.8	11565.9
57.5°	12777.4	12653.7	13017.5	13585.1	13861.6	12053.4	12024.3	11722.3	12530.0	12377.2	13199.5
60°	13403.2	13435.9	13941.7	15069.5	15549.7	14178.1	14036.2	13505.1	13908.9	13938.0	14814.8
62.5°	14047.2	13970.8	15102.2	16186.4	16925.0	16190.1	16142.8	15087.7	15546.1	15175.0	16335.6
65°	13574.2	13690.6	15309.6	17125.1	18707.7	18158.3	18118.3	16612.1	16863.1	16401.1	16954.1
67.5°	11893.3	11656.8	13923.5	16695.8	19624.5	20221.2	20177.6	18274.8	17605.3	16393.8	15669.8
70°	8717.2	8513.4	10361.6	14138.1	18311.2	21276.3	21450.9	19431.7	17303.4	14865.8	12089.8
72.5°	4271.3	4274.9	5806.6	9586.7	14487.4	19391.7	19479.0	17816.4	14865.8	10958.3	6847.1
75°	1262.5	1277.0	2150.2	4700.6	9364.8	14727.5	14825.7	13523.3	10303.4	5661.1	2335.7
77.5°	462.1	462.1	713.1	1764.5	4671.5	9295.6	9288.4	8302.4	5217.2	1917.3	545.7
80°	240.1	251.0	371.1	720.4	2022.8	4842.5	5024.4	4063.9	1982.8	807.7	160.1
82.5°	98.2	109.1	203.7	371.1	971.4	1699.0	1859.1	1593.5	862.3	563.9	72.8
85°	29.1	32.7	98.2	207.4	382.0	425.7	473.0	534.8	542.1	436.6	32.7
87.5°	3.6	3.6	40.0	69.1	83.7	91.0	105.5	105.5	276.5	305.6	18.2
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: P483646

CATALOG NUMBER: IFLD-L-SA8A-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3
2.5°	2499.5	2481.3	2452.2	2386.7	2372.1	2324.8	2321.2	2277.5	2292.1	2263.0	2252.1
5°	2481.3	2441.2	2361.2	2310.3	2259.3	2226.6	2204.8	2186.6	2182.9	2168.4	2161.1
7.5°	2514.0	2459.4	2335.7	2255.7	2168.4	2139.3	2092.0	2088.3	2062.9	2037.4	2037.4
10°	2623.2	2524.9	2390.3	2255.7	2142.9	2048.3	1939.2	1859.1	1830.0	1764.5	1771.8
12.5°	2710.5	2623.2	2426.7	2288.4	2117.4	1902.8	1662.7	1477.1	1389.8	1306.1	1338.9
15°	2834.2	2706.8	2495.8	2295.7	2019.2	1648.1	1255.2	1047.8	967.8	949.6	945.9
17.5°	2968.8	2834.2	2583.1	2277.5	1819.1	1273.4	924.1	804.0	818.6	840.4	836.8
20°	3118.0	2954.2	2648.6	2215.7	1502.6	924.1	756.7	753.1	774.9	807.7	815.0
22.5°	3274.4	3132.5	2728.7	2030.1	1120.6	742.2	727.6	727.6	742.2	782.2	774.9
25°	3449.0	3259.8	2768.7	1742.7	804.0	684.0	691.3	705.8	713.1	745.8	749.5
27.5°	3583.6	3401.7	2779.6	1397.1	654.9	633.0	651.2	669.4	680.3	705.8	716.7
30°	3707.3	3580.0	2721.4	1040.5	600.3	589.4	596.7	622.1	644.0	665.8	665.8
32.5°	3863.8	3681.9	2586.8	738.6	567.6	549.4	545.7	556.6	582.1	607.6	607.6
35°	4023.9	3852.9	2372.1	593.0	538.5	513.0	498.4	487.5	498.4	516.6	531.2
37.5°	4256.7	4111.2	2102.9	545.7	516.6	480.2	451.1	425.7	407.5	403.8	414.8
40°	4587.8	4402.2	1757.3	513.0	491.2	447.5	403.8	360.2	320.2	294.7	298.3
42.5°	5089.9	4831.6	1382.5	494.8	473.0	411.1	349.3	287.4	236.5	211.0	211.0
45°	5806.6	5399.1	1015.1	476.6	451.1	367.5	287.4	214.7	163.7	149.2	152.8
47.5°	6887.1	6083.1	727.6	447.5	422.0	320.2	225.6	152.8	120.1	112.8	116.4
50°	8298.8	6894.4	567.6	414.8	385.7	269.2	167.4	112.8	94.6	91.0	94.6
52.5°	9779.5	7713.0	498.4	385.7	331.1	214.7	123.7	91.0	80.0	76.4	80.0
55°	11045.6	8240.6	432.9	342.0	265.6	160.1	98.2	80.0	69.1	58.2	58.2
57.5°	12326.3	8506.2	342.0	283.8	196.5	120.1	83.7	69.1	58.2	47.3	43.7
60°	13366.8	8695.3	243.8	211.0	138.3	94.6	72.8	61.8	47.3	36.4	32.7
62.5°	14050.8	8153.2	178.3	160.1	101.9	80.0	61.8	50.9	36.4	25.5	25.5
65°	13712.4	7403.8	138.3	112.8	76.4	61.8	50.9	36.4	25.5	14.6	10.9
67.5°	12304.5	6032.2	112.8	83.7	58.2	47.3	40.0	29.1	14.6	3.6	3.6
70°	9179.2	4420.4	91.0	61.8	47.3	36.4	29.1	18.2	7.3	3.6	0.0
72.5°	5020.7	2419.4	72.8	50.9	36.4	29.1	21.8	14.6	7.3	0.0	0.0
75°	1659.0	644.0	54.6	36.4	21.8	18.2	14.6	10.9	3.6	0.0	0.0
77.5°	400.2	167.4	43.7	32.7	18.2	10.9	7.3	3.6	3.6	0.0	0.0
80°	123.7	69.1	32.7	21.8	14.6	10.9	3.6	0.0	0.0	0.0	0.0
82.5°	50.9	32.7	14.6	14.6	10.9	3.6	0.0	0.0	0.0	0.0	0.0
85°	25.5	18.2	10.9	7.3	7.3	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	7.3	3.6	3.6	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)