

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: P483642

Luminaire Tested: **IFLD-L-SA7B-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483642
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

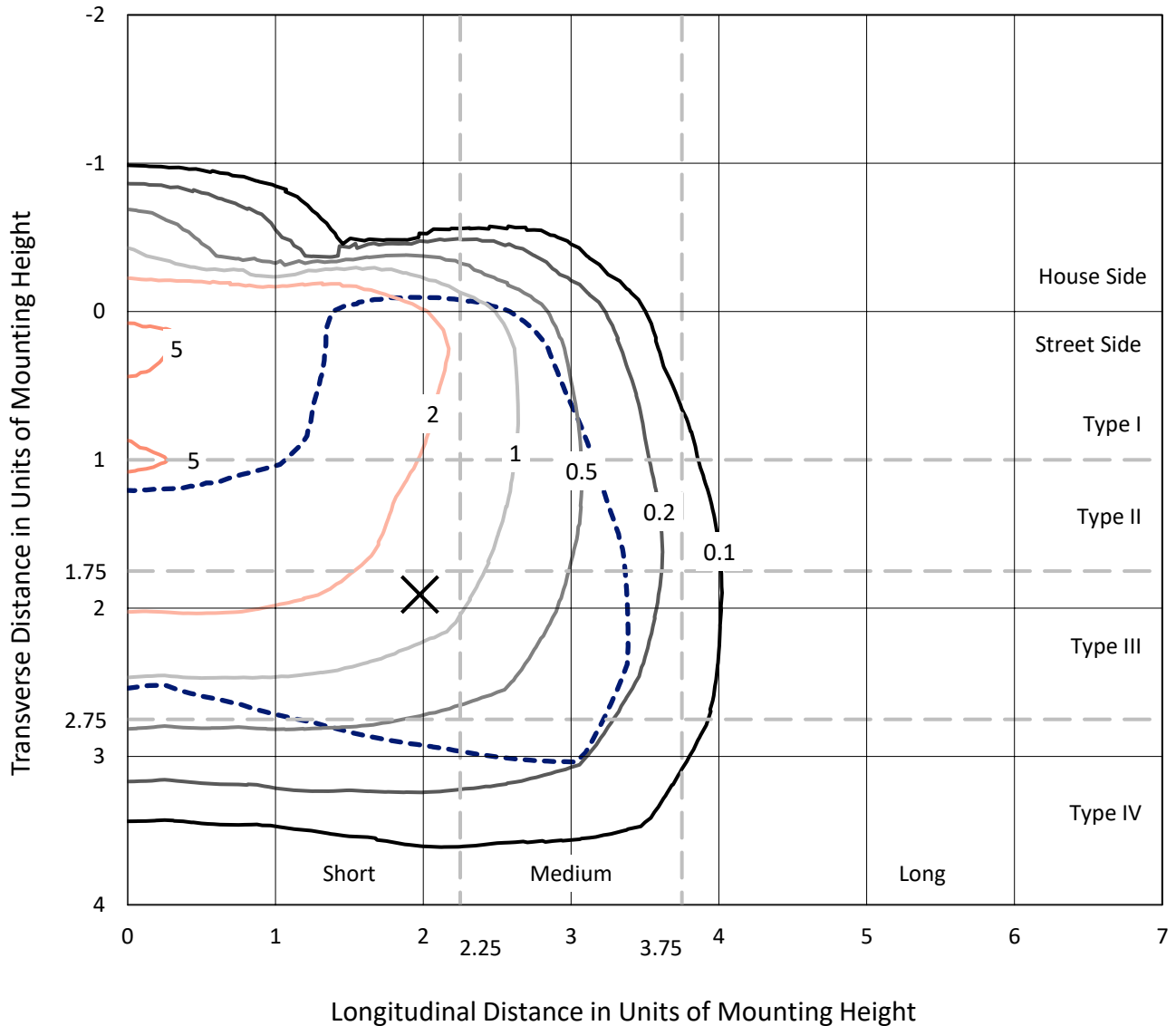
Lumens per Lamp: N/A
Luminaire Lumens: 26275.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 281
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

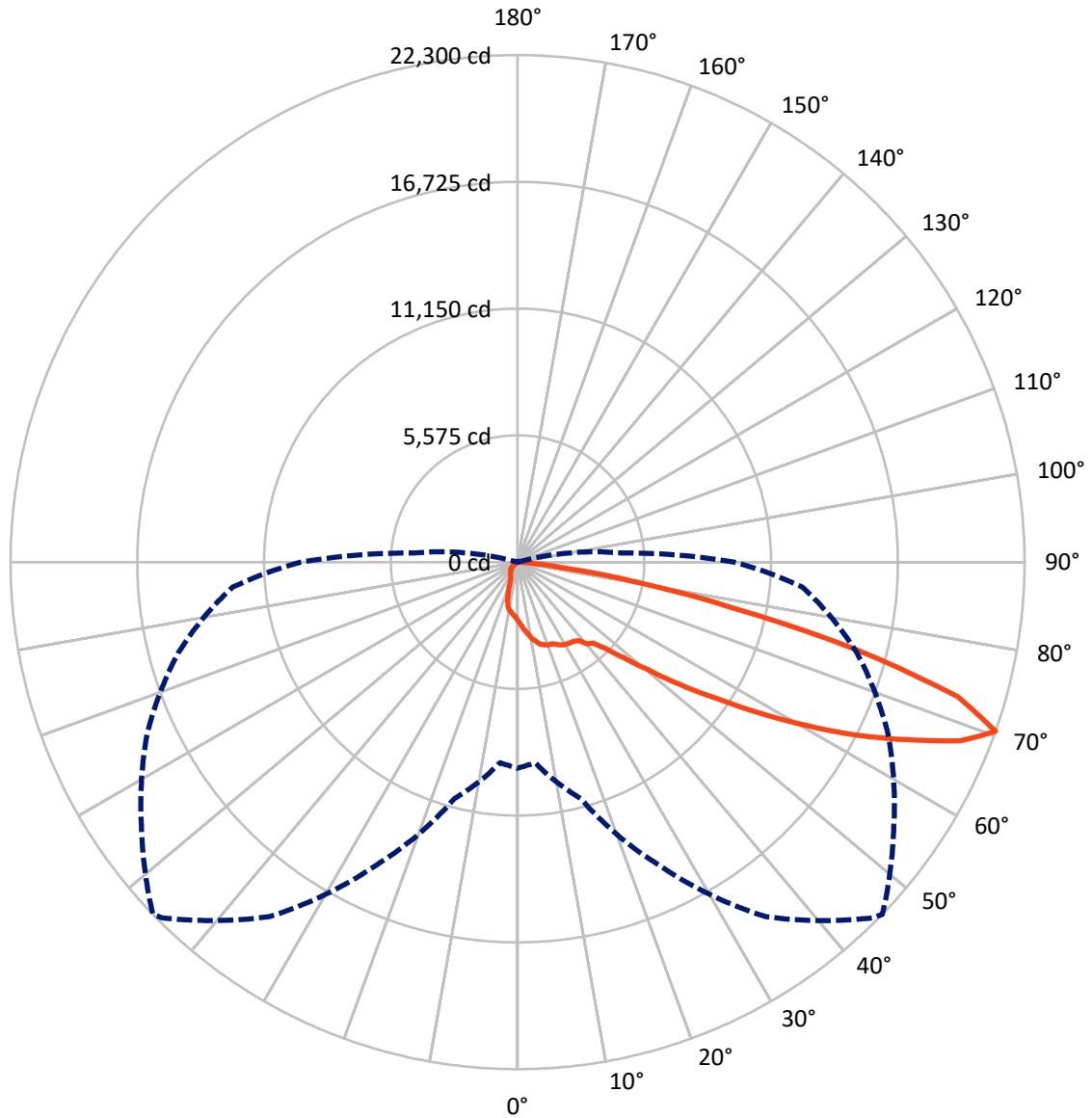
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2614.5	0.0	2614.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	23661.3	0.0	23661.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	26275.9	0.0	26275.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	1.0
10°-20°	776.7	3.0
20°-30°	1244.2	4.7
30°-40°	1775.9	6.8
40°-50°	3066.4	11.7
50°-60°	5871.0	22.3
60°-70°	8694.0	33.1
70°-80°	4306.0	16.4
80°-90°	284.5	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°	26275.9	100.0
0°-180°	26275.9	100.0

Coefficient of Utilization

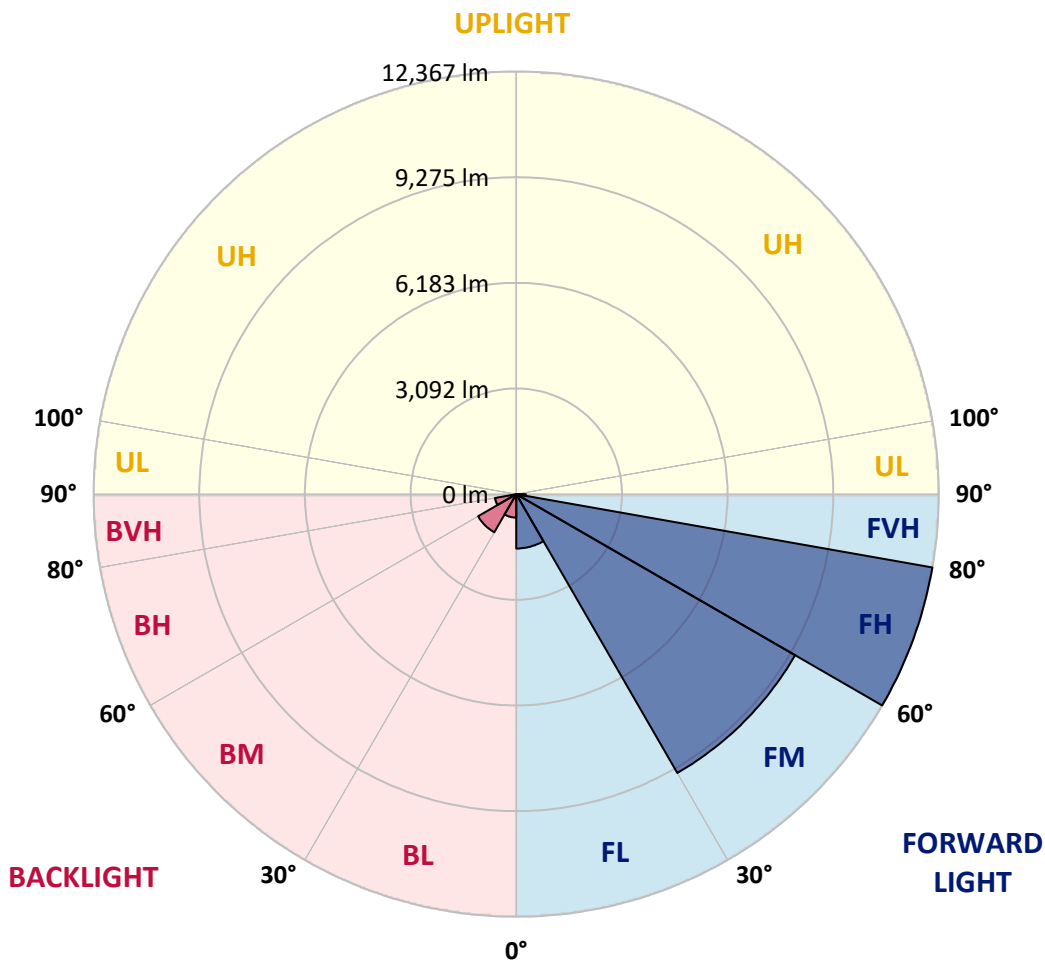


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1591.2	6.1			
FM (30°-60°)	9422.5	35.9			
FH (60°-80°)	12366.8	47.1			G5
FVH (80°-90°)	280.9	1.1			G3/500
BL (0°-30°)	686.9	2.6	B2/1000		
BM (30°-60°)	1290.8	4.9	B2/2500		
BH (60°-80°)	633.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.6	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2878.3	2859.4	2829.1	2817.8	2787.5	2772.4	2749.7	2738.3	2696.7	2655.1	2628.6
5°	3230.0	3184.6	3199.8	3154.4	3056.0	2976.6	2972.8	2885.8	2791.3	2715.6	2613.5
7.5°	3585.5	3547.7	3491.0	3426.7	3317.0	3199.8	3165.7	3082.5	2950.1	2817.8	2681.6
10°	3854.1	3827.6	3778.4	3687.7	3536.4	3404.0	3407.8	3267.8	3127.9	2976.6	2791.3
12.5°	4020.5	4031.8	3960.0	3869.2	3736.8	3570.4	3566.6	3472.1	3313.2	3154.4	2935.0
15°	4186.9	4228.5	4118.8	4012.9	3842.7	3721.7	3744.4	3630.9	3475.9	3294.3	3052.2
17.5°	4213.4	4224.7	4202.0	4047.0	3922.2	3820.0	3823.8	3748.2	3630.9	3434.3	3226.2
20°	4168.0	4160.4	4134.0	4020.5	3937.3	3876.8	3880.6	3861.6	3797.3	3638.5	3354.8
22.5°	4035.6	4035.6	4001.6	3925.9	3888.1	3944.9	3899.5	3971.3	3903.2	3808.7	3574.2
25°	3929.7	3971.3	3952.4	3903.2	3918.4	3994.0	4016.7	4084.8	4073.4	3956.2	3725.5
27.5°	4043.2	3994.0	4005.4	3948.6	4005.4	4118.8	4130.2	4179.3	4175.6	4081.0	3861.6
30°	4118.8	4164.2	4077.2	3952.4	4012.9	4205.8	4198.3	4262.6	4292.8	4179.3	3990.2
32.5°	4360.9	4323.1	4251.2	4084.8	4092.4	4202.0	4236.1	4319.3	4338.2	4270.1	4115.1
35°	4856.4	4799.6	4485.7	4236.1	4198.3	4251.2	4273.9	4436.5	4470.6	4394.9	4247.4
37.5°	5620.4	5491.8	5113.6	4561.4	4391.2	4379.8	4379.8	4595.4	4724.0	4550.0	4444.1
40°	6713.4	6531.9	6123.4	5162.7	4644.6	4689.9	4735.3	4852.6	4837.5	4724.0	4701.3
42.5°	8105.3	7965.3	7522.8	6172.6	5128.7	4901.8	4863.9	5022.8	5261.1	5215.7	5200.5
45°	9266.4	9274.0	8990.3	7556.9	5964.6	5389.7	5416.1	5537.2	5938.1	5904.0	5900.3
47.5°	10113.6	10007.7	9966.1	8892.0	7182.4	6316.3	6278.5	6361.7	6883.6	7099.2	7197.6
50°	10885.2	10813.4	10715.0	10189.3	8646.1	7477.4	7439.6	7447.2	8245.2	8547.8	8789.9
52.5°	11842.1	11932.9	11607.6	11286.1	10541.0	8986.5	8944.9	8797.4	9788.4	10204.4	10491.9
55°	13022.2	12852.0	12485.1	12651.5	12352.7	10616.7	10541.0	10367.1	11547.1	11721.1	12023.7
57.5°	13283.1	13154.5	13532.8	14122.8	14410.2	12530.5	12500.2	12186.3	13026.0	12867.1	13721.9
60°	13933.7	13967.7	14493.5	15665.9	16165.2	14739.3	14591.8	14039.6	14459.4	14489.7	15401.2
62.5°	14603.1	14523.7	15700.0	16827.1	17594.9	16830.9	16781.7	15684.9	16161.4	15775.6	16982.2
65°	14111.4	14232.5	15915.6	17802.9	19448.2	18877.0	18835.4	17269.6	17530.6	17050.2	17625.1
67.5°	12364.1	12118.2	14474.5	17356.6	20401.3	21021.6	20976.2	18998.1	18302.1	17042.7	16290.0
70°	9062.2	8850.4	10771.8	14697.7	19035.9	22118.4	22299.9	20200.8	17988.2	15454.1	12568.3
72.5°	4440.3	4444.1	6036.4	9966.1	15060.8	20159.2	20250.0	18521.5	15454.1	11392.0	7118.1
75°	1312.4	1327.6	2235.3	4886.6	9735.4	15310.4	15412.5	14058.5	10711.2	5885.1	2428.2
77.5°	480.3	480.3	741.3	1834.4	4856.4	9663.6	9656.0	8631.0	5423.7	1993.2	567.3
80°	249.6	261.0	385.8	748.9	2102.9	5034.1	5223.2	4224.7	2061.3	839.7	166.4
82.5°	102.1	113.5	211.8	385.8	1009.9	1766.3	1932.7	1656.6	896.4	586.2	75.6
85°	30.3	34.0	102.1	215.6	397.1	442.5	491.7	556.0	563.6	453.9	34.0
87.5°	3.8	3.8	41.6	71.9	87.0	94.6	109.7	109.7	287.4	317.7	18.9
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°	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5	2579.5
2.5°	2598.4	2579.5	2549.2	2481.1	2466.0	2416.8	2413.1	2367.7	2382.8	2352.5	2341.2
5°	2579.5	2537.9	2454.7	2401.7	2348.8	2314.7	2292.0	2273.1	2269.3	2254.2	2246.6
7.5°	2613.5	2556.8	2428.2	2345.0	2254.2	2223.9	2174.8	2171.0	2144.5	2118.0	2118.0
10°	2727.0	2624.9	2484.9	2345.0	2227.7	2129.4	2015.9	1932.7	1902.5	1834.4	1841.9
12.5°	2817.8	2727.0	2522.7	2379.0	2201.2	1978.1	1728.5	1535.6	1444.8	1357.8	1391.9
15°	2946.3	2814.0	2594.6	2386.6	2099.1	1713.3	1304.9	1089.3	1006.1	987.2	983.4
17.5°	3086.3	2946.3	2685.4	2367.7	1891.1	1323.8	960.7	835.9	851.0	873.7	869.9
20°	3241.4	3071.2	2753.5	2303.4	1562.1	960.7	786.7	782.9	805.6	839.7	847.2
22.5°	3404.0	3256.5	2836.7	2110.5	1164.9	771.6	756.4	756.4	771.6	813.2	805.6
25°	3585.5	3388.9	2878.3	1811.7	835.9	711.1	718.6	733.7	741.3	775.4	779.1
27.5°	3725.5	3536.4	2889.6	1452.4	680.8	658.1	677.0	695.9	707.3	733.7	745.1
30°	3854.1	3721.7	2829.1	1081.7	624.1	612.7	620.3	646.8	669.5	692.1	692.1
32.5°	4016.7	3827.6	2689.2	767.8	590.0	571.1	567.3	578.7	605.2	631.6	631.6
35°	4183.1	4005.4	2466.0	616.5	559.8	533.3	518.2	506.8	518.2	537.1	552.2
37.5°	4425.2	4273.9	2186.1	567.3	537.1	499.3	469.0	442.5	423.6	419.8	431.2
40°	4769.4	4576.5	1826.8	533.3	510.6	465.2	419.8	374.4	332.8	306.4	310.1
42.5°	5291.3	5022.8	1437.2	514.4	491.7	427.4	363.1	298.8	245.8	219.4	219.4
45°	6036.4	5612.8	1055.2	495.5	469.0	382.0	298.8	223.2	170.2	155.1	158.9
47.5°	7159.7	6323.9	756.4	465.2	438.7	332.8	234.5	158.9	124.8	117.2	121.0
50°	8627.2	7167.3	590.0	431.2	400.9	279.9	174.0	117.2	98.3	94.6	98.3
52.5°	10166.6	8018.3	518.2	400.9	344.2	223.2	128.6	94.6	83.2	79.4	83.2
55°	11482.8	8566.7	450.1	355.5	276.1	166.4	102.1	83.2	71.9	60.5	60.5
57.5°	12814.1	8842.8	355.5	295.0	204.2	124.8	87.0	71.9	60.5	49.2	45.4
60°	13895.9	9039.5	253.4	219.4	143.7	98.3	75.6	64.3	49.2	37.8	34.0
62.5°	14606.9	8475.9	185.3	166.4	105.9	83.2	64.3	53.0	37.8	26.5	26.5
65°	14255.2	7696.8	143.7	117.2	79.4	64.3	53.0	37.8	26.5	15.1	11.3
67.5°	12791.5	6270.9	117.2	87.0	60.5	49.2	41.6	30.3	15.1	3.8	3.8
70°	9542.5	4595.4	94.6	64.3	49.2	37.8	30.3	18.9	7.6	3.8	0.0
72.5°	5219.5	2515.2	75.6	53.0	37.8	30.3	22.7	15.1	7.6	0.0	0.0
75°	1724.7	669.5	56.7	37.8	22.7	18.9	15.1	11.3	3.8	0.0	0.0
77.5°	416.0	174.0	45.4	34.0	18.9	11.3	7.6	3.8	3.8	0.0	0.0
80°	128.6	71.9	34.0	22.7	15.1	11.3	3.8	0.0	0.0	0.0	0.0
82.5°	53.0	34.0	15.1	15.1	11.3	3.8	0.0	0.0	0.0	0.0	0.0
85°	26.5	18.9	11.3	7.6	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	7.6	3.8	3.8	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)