

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: P483649

Luminaire Tested: **IFLD-L-SA8D-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483649
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-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

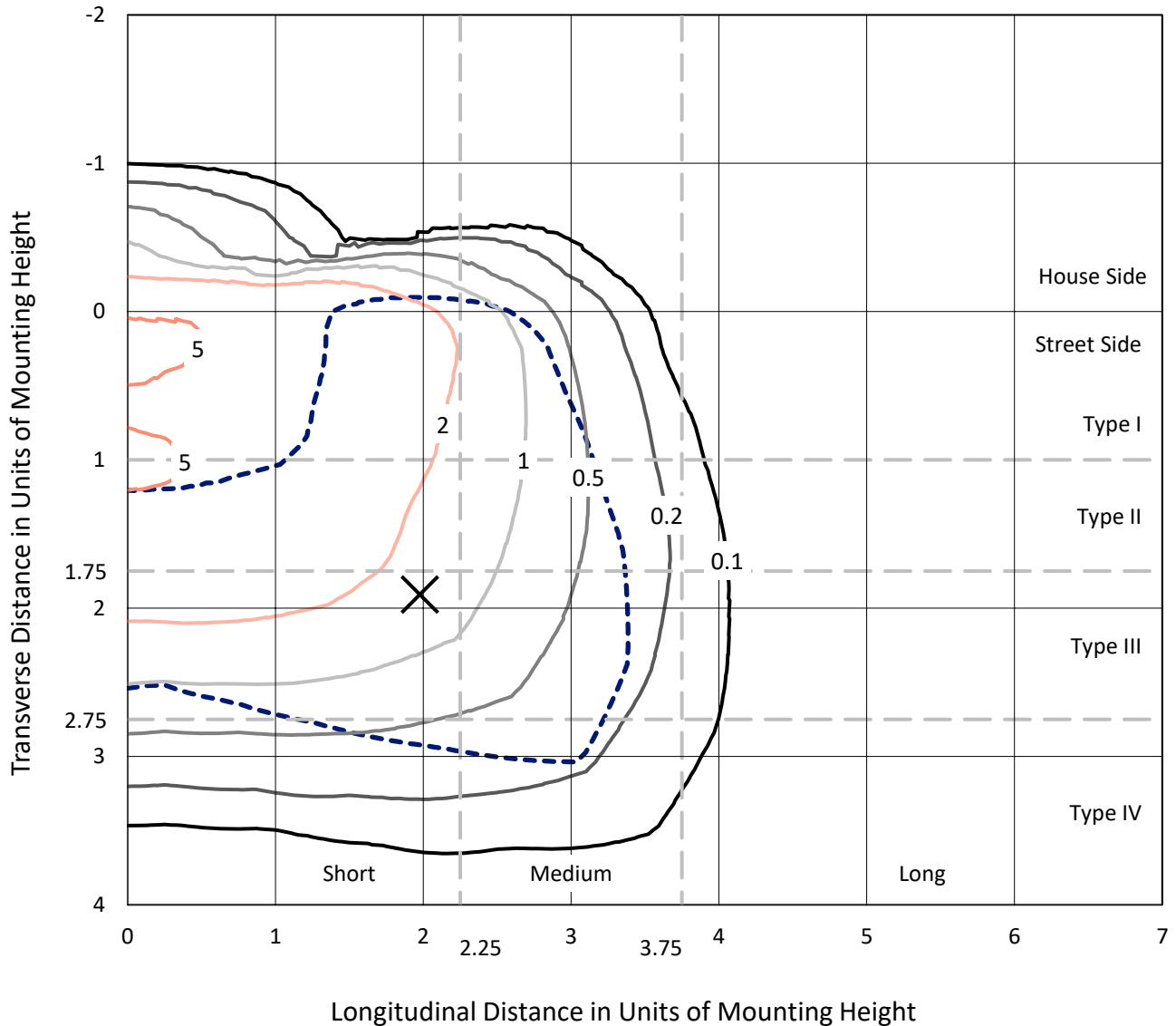
Lumens per Lamp: N/A
Luminaire Lumens: 41132.6 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

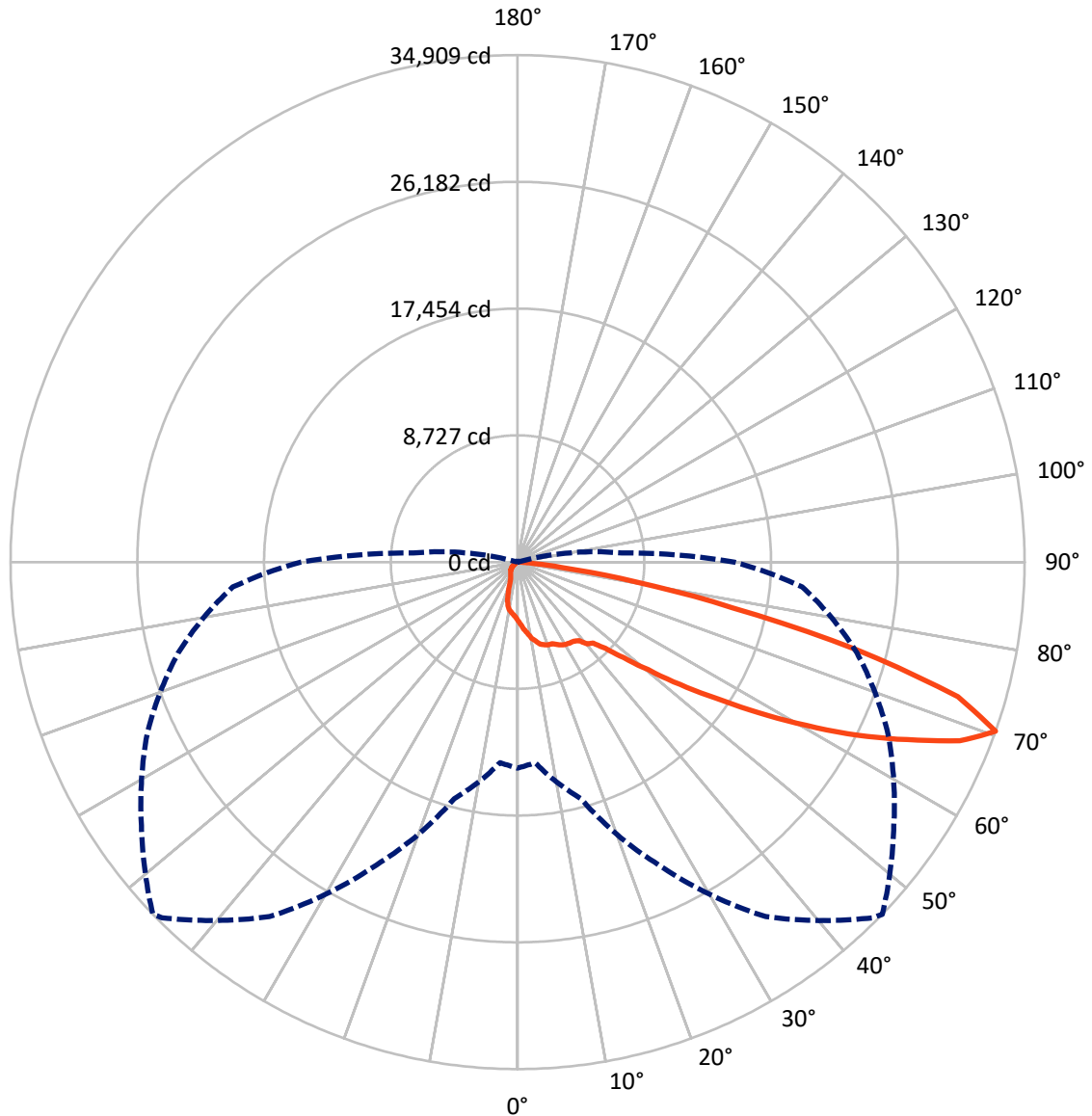
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	4092.8	0.0	4092.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	37039.8	0.0	37039.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	41132.6	0.0	41132.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.6	1.0
10°-20°	1215.9	3.0
20°-30°	1947.6	4.7
30°-40°	2780.0	6.8
40°-50°	4800.2	11.7
50°-60°	9190.5	22.3
60°-70°	13609.7	33.1
70°-80°	6740.7	16.4
80°-90°	445.4	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°	41132.6	100.0
0°-180°	41132.6	100.0

Coefficient of Utilization



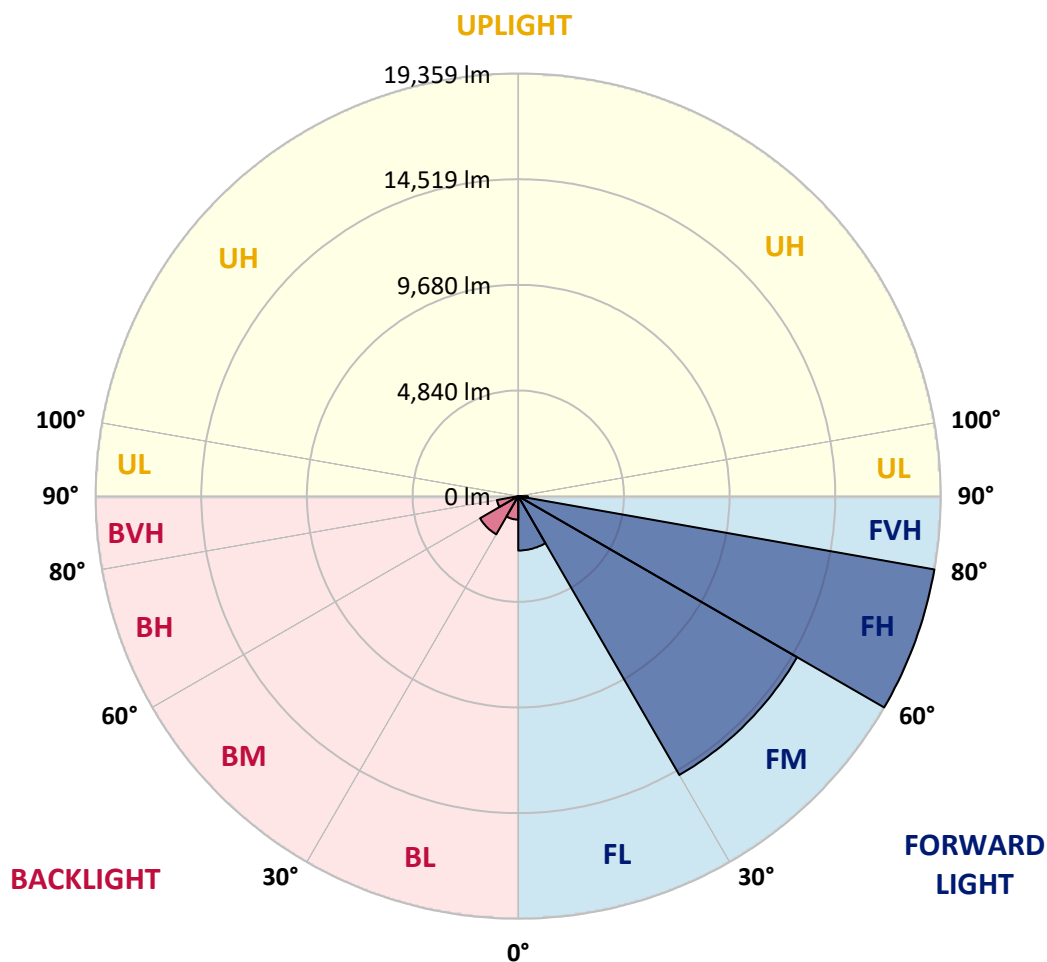
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.9	6.1			
FM (30°-60°)	14750.1	35.9			
FH (60°-80°)	19359.1	47.1			G5
FVH (80°-90°)	439.7	1.1			G3/500
BL (0°-30°)	1075.3	2.6	B3/2500		
BM (30°-60°)	2020.6	4.9	B2/2500		
BH (60°-80°)	991.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9
2.5°	4505.7	4476.1	4428.7	4410.9	4363.6	4339.9	4304.4	4286.6	4221.5	4156.4	4114.9
5°	5056.3	4985.3	5008.9	4937.9	4784.0	4659.6	4653.7	4517.5	4369.5	4251.1	4091.2
7.5°	5612.9	5553.6	5464.8	5364.2	5192.5	5008.9	4955.7	4825.4	4618.2	4410.9	4197.8
10°	6033.2	5991.8	5914.8	5772.7	5535.9	5328.7	5334.6	5115.5	4896.4	4659.6	4369.5
12.5°	6293.7	6311.5	6199.0	6056.9	5849.7	5589.2	5583.3	5435.2	5186.6	4937.9	4594.5
15°	6554.3	6619.4	6447.7	6281.9	6015.5	5826.0	5861.5	5683.9	5441.2	5157.0	4778.0
17.5°	6595.7	6613.5	6577.9	6335.2	6139.8	5979.9	5985.9	5867.4	5683.9	5376.0	5050.4
20°	6524.6	6512.8	6471.4	6293.7	6163.5	6068.8	6074.7	6045.1	5944.4	5695.7	5251.7
22.5°	6317.4	6317.4	6264.1	6145.7	6086.5	6175.3	6104.3	6216.8	6110.2	5962.2	5595.1
25°	6151.6	6216.8	6187.2	6110.2	6133.9	6252.3	6287.8	6394.4	6376.6	6193.1	5831.9
27.5°	6329.3	6252.3	6270.1	6181.2	6270.1	6447.7	6465.4	6542.4	6536.5	6388.5	6045.1
30°	6447.7	6518.7	6382.6	6187.2	6281.9	6583.9	6572.0	6672.7	6720.0	6542.4	6246.4
32.5°	6826.6	6767.4	6654.9	6394.4	6406.2	6577.9	6631.2	6761.5	6791.1	6684.5	6441.8
35°	7602.2	7513.4	7022.0	6631.2	6572.0	6654.9	6690.4	6945.0	6998.3	6879.9	6649.0
37.5°	8798.2	8596.9	8004.8	7140.4	6874.0	6856.2	6856.2	7193.7	7395.0	7122.6	6956.9
40°	10509.3	10225.1	9585.7	8081.8	7270.7	7341.7	7412.8	7596.3	7572.6	7395.0	7359.5
42.5°	12688.1	12469.1	11776.3	9662.6	8028.5	7673.3	7614.1	7862.7	8235.7	8164.7	8141.0
45°	14505.8	14517.6	14073.6	11829.6	9337.0	8437.0	8478.5	8668.0	9295.6	9242.3	9236.3
47.5°	15832.0	15666.3	15601.1	13919.6	11243.5	9887.6	9828.4	9958.7	10775.7	11113.2	11267.2
50°	17039.9	16927.4	16773.4	15950.5	13534.8	11705.3	11646.1	11657.9	12907.2	13380.9	13759.8
52.5°	18537.8	18679.9	18170.7	17667.5	16501.1	14067.7	14002.5	13771.6	15322.9	15974.1	16424.1
55°	20385.1	20118.7	19544.3	19804.9	19337.1	16619.5	16501.1	16228.7	18076.0	18348.4	18822.0
57.5°	20793.6	20592.3	21184.4	22108.0	22558.0	19615.4	19568.0	19076.6	20391.0	20142.3	21480.4
60°	21812.0	21865.3	22688.3	24523.7	25305.2	23073.1	22842.2	21977.8	22635.0	22682.3	24109.2
62.5°	22860.0	22735.6	24577.0	26341.3	27543.3	26347.3	26270.3	24553.3	25299.3	24695.4	26584.1
65°	22090.3	22279.7	24914.5	27868.9	30444.4	29550.4	29485.3	27034.1	27442.6	26690.7	27590.6
67.5°	19354.9	18970.0	22658.7	27170.3	31936.4	32907.4	32836.4	29739.8	28650.4	26678.8	25500.6
70°	14186.1	13854.5	16862.3	23008.0	29799.1	34624.5	34908.7	31622.6	28159.0	24192.1	19674.6
72.5°	6950.9	6956.9	9449.5	15601.1	23576.4	31557.5	31699.6	28993.8	24192.1	17833.3	11142.8
75°	2054.5	2078.2	3499.2	7649.6	15240.0	23967.1	24127.0	22007.4	16767.5	9212.7	3801.1
77.5°	751.9	751.9	1160.5	2871.6	7602.2	15127.5	15115.6	13511.1	8490.3	3120.2	888.1
80°	390.8	408.5	603.9	1172.3	3291.9	7880.5	8176.5	6613.5	3226.8	1314.4	260.5
82.5°	159.9	177.6	331.6	603.9	1580.8	2765.0	3025.5	2593.3	1403.2	917.7	118.4
85°	47.4	53.3	159.9	337.5	621.7	692.7	769.7	870.3	882.2	710.5	53.3
87.5°	5.9	5.9	65.1	112.5	136.2	148.0	171.7	171.7	450.0	497.3	29.6
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°	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9	4037.9
2.5°	4067.5	4037.9	3990.6	3884.0	3860.3	3783.3	3777.4	3706.4	3730.1	3682.7	3664.9
5°	4037.9	3972.8	3842.6	3759.7	3676.8	3623.5	3588.0	3558.4	3552.4	3528.8	3516.9
7.5°	4091.2	4002.4	3801.1	3670.9	3528.8	3481.4	3404.4	3398.5	3357.1	3315.6	3315.6
10°	4268.8	4109.0	3889.9	3670.9	3487.3	3333.4	3155.8	3025.5	2978.1	2871.6	2883.4
12.5°	4410.9	4268.8	3949.1	3724.1	3445.9	3096.5	2705.8	2403.8	2261.7	2125.5	2178.8
15°	4612.3	4405.0	4061.6	3736.0	3286.0	2682.1	2042.7	1705.2	1574.9	1545.3	1539.4
17.5°	4831.3	4612.3	4203.7	3706.4	2960.4	2072.3	1503.9	1308.5	1332.2	1367.7	1361.8
20°	5074.1	4807.6	4310.3	3605.7	2445.3	1503.9	1231.5	1225.6	1261.1	1314.4	1326.2
22.5°	5328.7	5097.8	4440.6	3303.8	1823.6	1207.8	1184.1	1184.1	1207.8	1273.0	1261.1
25°	5612.9	5305.0	4505.7	2836.0	1308.5	1113.1	1124.9	1148.6	1160.5	1213.8	1219.7
27.5°	5831.9	5535.9	4523.4	2273.6	1065.7	1030.2	1059.8	1089.4	1107.2	1148.6	1166.4
30°	6033.2	5826.0	4428.7	1693.3	976.9	959.2	971.0	1012.4	1048.0	1083.5	1083.5
32.5°	6287.8	5991.8	4209.6	1201.9	923.6	894.0	888.1	905.9	947.3	988.8	988.8
35°	6548.3	6270.1	3860.3	965.1	876.3	834.8	811.1	793.4	811.1	840.7	864.4
37.5°	6927.3	6690.4	3422.2	888.1	840.7	781.5	734.2	692.7	663.1	657.2	675.0
40°	7466.0	7164.1	2859.7	834.8	799.3	728.3	657.2	586.2	521.0	479.6	485.5
42.5°	8283.1	7862.7	2249.9	805.2	769.7	669.0	568.4	467.7	384.8	343.4	343.4
45°	9449.5	8786.4	1651.9	775.6	734.2	598.0	467.7	349.3	266.4	242.8	248.7
47.5°	11208.0	9899.5	1184.1	728.3	686.8	521.0	367.1	248.7	195.4	183.5	189.5
50°	13505.2	11219.8	923.6	675.0	627.6	438.1	272.4	183.5	153.9	148.0	153.9
52.5°	15914.9	12552.0	811.1	627.6	538.8	349.3	201.3	148.0	130.3	124.3	130.3
55°	17975.3	13410.5	704.6	556.5	432.2	260.5	159.9	130.3	112.5	94.7	94.7
57.5°	20059.4	13842.7	556.5	461.8	319.7	195.4	136.2	112.5	94.7	77.0	71.0
60°	21752.8	14150.6	396.7	343.4	225.0	153.9	118.4	100.7	77.0	59.2	53.3
62.5°	22865.9	13268.4	290.1	260.5	165.8	130.3	100.7	82.9	59.2	41.4	41.4
65°	22315.2	12048.7	225.0	183.5	124.3	100.7	82.9	59.2	41.4	23.7	17.8
67.5°	20023.9	9816.6	183.5	136.2	94.7	77.0	65.1	47.4	23.7	5.9	5.9
70°	14938.0	7193.7	148.0	100.7	77.0	59.2	47.4	29.6	11.8	5.9	0.0
72.5°	8170.6	3937.3	118.4	82.9	59.2	47.4	35.5	23.7	11.8	0.0	0.0
75°	2699.9	1048.0	88.8	59.2	35.5	29.6	23.7	17.8	5.9	0.0	0.0
77.5°	651.3	272.4	71.0	53.3	29.6	17.8	11.8	5.9	5.9	0.0	0.0
80°	201.3	112.5	53.3	35.5	23.7	17.8	5.9	0.0	0.0	0.0	0.0
82.5°	82.9	53.3	23.7	23.7	17.8	5.9	0.0	0.0	0.0	0.0	0.0
85°	41.4	29.6	17.8	11.8	11.8	5.9	0.0	0.0	0.0	0.0	0.0
87.5°	29.6	11.8	5.9	5.9	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)