

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: P483634

Luminaire Tested: **IFLD-S-SA6D-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483634
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

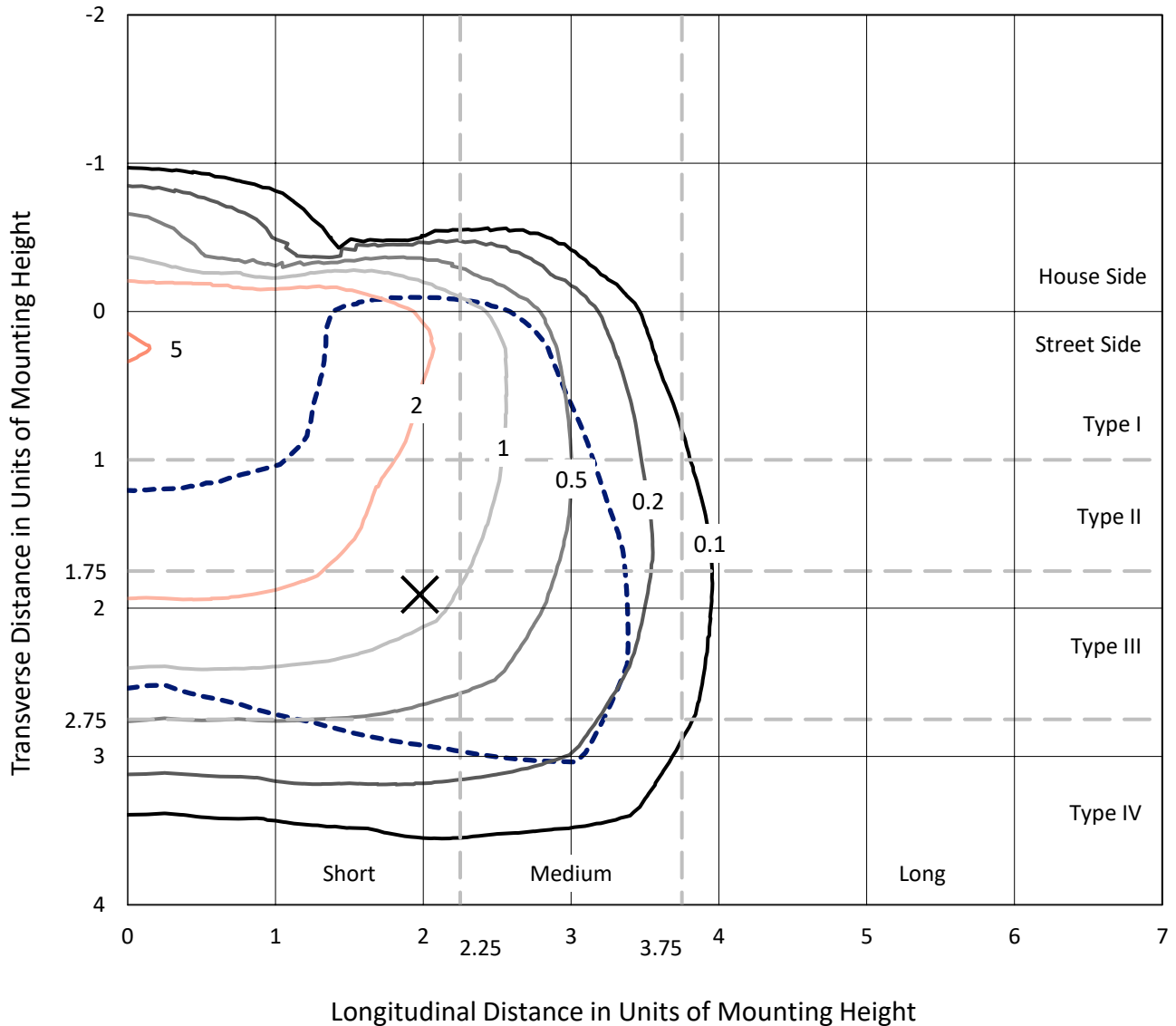
Lumens per Lamp: N/A
Luminaire Lumens: 33735.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2
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

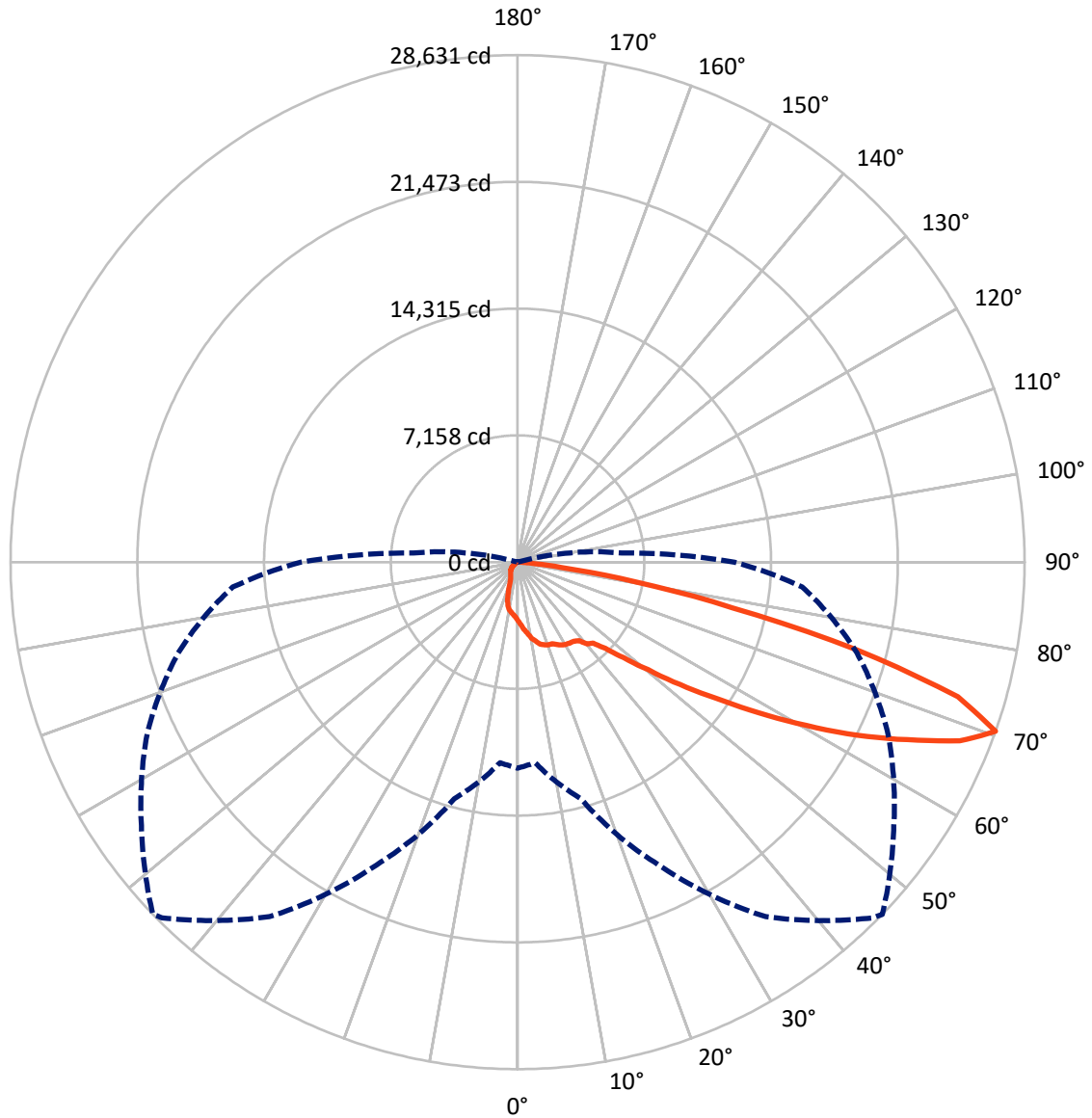
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	3356.7	0.0	3356.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	30378.5	0.0	30378.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	33735.2	0.0	33735.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.2	1.0
10°-20°	997.2	3.0
20°-30°	1597.3	4.7
30°-40°	2280.0	6.8
40°-50°	3937.0	11.7
50°-60°	7537.6	22.3
60°-70°	11162.1	33.1
70°-80°	5528.5	16.4
80°-90°	365.3	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°	33735.2	100.0
0°-180°	33735.2	100.0

Coefficient of Utilization

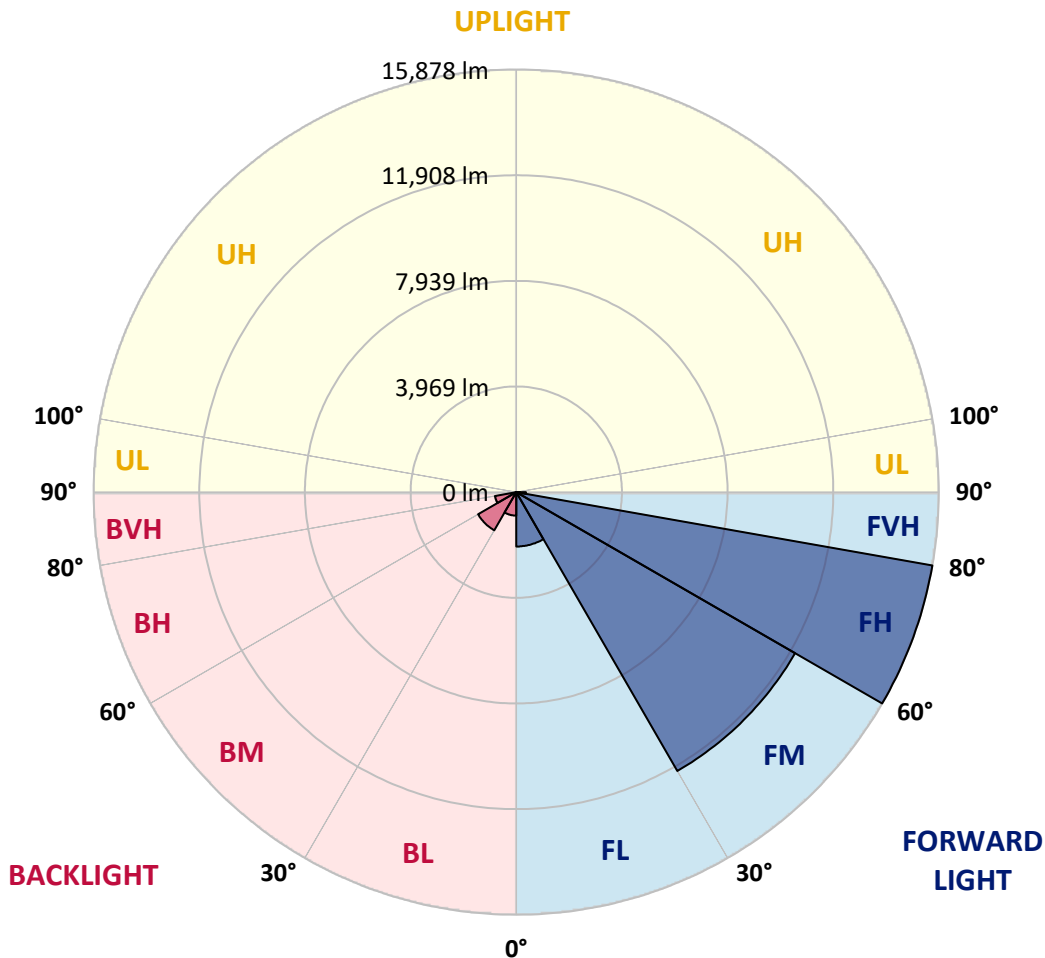


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2042.9	6.1			
FM (30°-60°)	12097.4	35.9			
FH (60°-80°)	15877.5	47.1			G5
FVH (80°-90°)	360.7	1.1			G3/500
BL (0°-30°)	881.9	2.6	B2/1000		
BM (30°-60°)	1657.2	4.9	B2/2500		
BH (60°-80°)	813.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7
2.5°	3695.4	3671.1	3632.2	3617.7	3578.8	3559.4	3530.3	3515.7	3462.3	3408.9	3374.9
5°	4147.0	4088.7	4108.1	4049.8	3923.6	3821.6	3816.8	3705.1	3583.7	3486.6	3355.4
7.5°	4603.4	4554.9	4482.0	4399.5	4258.7	4108.1	4064.4	3957.6	3787.6	3617.7	3442.9
10°	4948.2	4914.2	4851.1	4734.5	4540.3	4370.3	4375.2	4195.5	4015.9	3821.6	3583.7
12.5°	5161.9	5176.4	5084.2	4967.6	4797.7	4584.0	4579.1	4457.7	4253.8	4049.8	3768.2
15°	5375.5	5428.9	5288.1	5152.1	4933.6	4778.2	4807.4	4661.7	4462.6	4229.5	3918.7
17.5°	5409.5	5424.1	5394.9	5195.8	5035.6	4904.5	4909.3	4812.2	4661.7	4409.2	4142.1
20°	5351.2	5341.5	5307.5	5161.9	5055.0	4977.3	4982.2	4957.9	4875.4	4671.4	4307.2
22.5°	5181.3	5181.3	5137.6	5040.5	4991.9	5064.7	5006.5	5098.7	5011.3	4889.9	4588.9
25°	5045.3	5098.7	5074.5	5011.3	5030.7	5127.9	5157.0	5244.4	5229.8	5079.3	4783.1
27.5°	5191.0	5127.9	5142.4	5069.6	5142.4	5288.1	5302.7	5365.8	5361.0	5239.6	4957.9
30°	5288.1	5346.4	5234.7	5074.5	5152.1	5399.8	5390.1	5472.6	5511.5	5365.8	5123.0
32.5°	5598.9	5550.3	5458.1	5244.4	5254.1	5394.9	5438.6	5545.5	5569.8	5482.3	5283.3
35°	6235.0	6162.2	5759.1	5438.6	5390.1	5458.1	5487.2	5696.0	5739.7	5642.6	5453.2
37.5°	7215.9	7050.8	6565.2	5856.3	5637.7	5623.2	5623.2	5900.0	6065.1	5841.7	5705.7
40°	8619.3	8386.2	7861.8	6628.3	5963.1	6021.4	6079.6	6230.2	6210.7	6065.1	6035.9
42.5°	10406.3	10226.6	9658.5	7924.9	6584.6	6293.3	6244.7	6448.7	6754.6	6696.3	6676.9
45°	11897.0	11906.7	11542.6	9702.2	7657.8	6919.7	6953.7	7109.1	7623.8	7580.1	7575.3
47.5°	12984.8	12848.8	12795.4	11416.3	9221.4	8109.4	8060.8	8167.7	8837.8	9114.6	9240.8
50°	13975.4	13883.1	13756.9	13081.9	11100.7	9600.2	9551.6	9561.3	10585.9	10974.4	11285.2
52.5°	15203.9	15320.5	14902.9	14490.1	13533.5	11537.7	11484.3	11294.9	12567.2	13101.3	13470.4
55°	16719.0	16500.5	16029.4	16243.1	15859.5	13630.6	13533.5	13310.1	14825.2	15048.5	15437.0
57.5°	17054.0	16888.9	17374.5	18132.1	18501.1	16087.7	16048.9	15645.8	16723.8	16519.9	17617.3
60°	17889.3	17933.0	18607.9	20113.3	20754.3	18923.6	18734.2	18025.2	18564.2	18603.1	19773.4
62.5°	18748.8	18646.8	20157.0	21604.0	22589.8	21608.9	21545.8	20137.6	20749.4	20254.1	21803.1
65°	18117.5	18272.9	20433.8	22856.9	24969.2	24236.0	24182.5	22172.2	22507.3	21890.5	22628.6
67.5°	15874.0	15558.4	18583.7	22283.9	26192.9	26989.3	26931.0	24391.4	23497.9	21880.8	20914.5
70°	11634.8	11362.9	13829.7	18870.2	24439.9	28397.5	28630.6	25935.5	23094.8	19841.3	16136.3
72.5°	5700.9	5705.7	7750.1	12795.4	19336.3	25882.1	25998.7	23779.5	19841.3	14626.1	9138.9
75°	1685.0	1704.4	2869.9	6273.9	12499.2	19656.8	19787.9	18049.5	13752.0	7555.8	3117.5
77.5°	616.7	616.7	951.8	2355.1	6235.0	12406.9	12397.2	11081.2	6963.4	2559.1	728.4
80°	320.5	335.1	495.3	961.5	2699.9	6463.2	6706.0	5424.1	2646.5	1078.0	213.7
82.5°	131.1	145.7	271.9	495.3	1296.5	2267.7	2481.4	2126.9	1150.9	752.7	97.1
85°	38.8	43.7	131.1	276.8	509.9	568.1	631.3	713.8	723.5	582.7	43.7
87.5°	4.9	4.9	53.4	92.3	111.7	121.4	140.8	140.8	369.1	407.9	24.3
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°	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7	3311.7
2.5°	3336.0	3311.7	3272.9	3185.5	3166.1	3102.9	3098.1	3039.8	3059.2	3020.4	3005.8
5°	3311.7	3258.3	3151.5	3083.5	3015.5	2971.8	2942.7	2918.4	2913.6	2894.1	2884.4
7.5°	3355.4	3282.6	3117.5	3010.7	2894.1	2855.3	2792.2	2787.3	2753.3	2719.3	2719.3
10°	3501.1	3370.0	3190.3	3010.7	2860.1	2733.9	2588.2	2481.4	2442.5	2355.1	2364.8
12.5°	3617.7	3501.1	3238.9	3054.4	2826.2	2539.7	2219.2	1971.5	1855.0	1743.3	1787.0
15°	3782.8	3612.8	3331.2	3064.1	2695.0	2199.7	1675.3	1398.5	1291.7	1267.4	1262.5
17.5°	3962.4	3782.8	3447.7	3039.8	2428.0	1699.6	1233.4	1073.2	1092.6	1121.7	1116.9
20°	4161.5	3943.0	3535.1	2957.3	2005.5	1233.4	1010.0	1005.2	1034.3	1078.0	1087.7
22.5°	4370.3	4181.0	3641.9	2709.6	1495.6	990.6	971.2	971.2	990.6	1044.0	1034.3
25°	4603.4	4350.9	3695.4	2326.0	1073.2	912.9	922.6	942.1	951.8	995.5	1000.3
27.5°	4783.1	4540.3	3709.9	1864.7	874.1	844.9	869.2	893.5	908.1	942.1	956.6
30°	4948.2	4778.2	3632.2	1388.8	801.2	786.7	796.4	830.4	859.5	888.6	888.6
32.5°	5157.0	4914.2	3452.6	985.8	757.5	733.2	728.4	743.0	776.9	810.9	810.9
35°	5370.7	5142.4	3166.1	791.5	718.7	684.7	665.3	650.7	665.3	689.5	709.0
37.5°	5681.4	5487.2	2806.7	728.4	689.5	641.0	602.1	568.1	543.9	539.0	553.6
40°	6123.3	5875.7	2345.4	684.7	655.6	597.3	539.0	480.7	427.3	393.3	398.2
42.5°	6793.5	6448.7	1845.3	660.4	631.3	548.7	466.2	383.6	315.6	281.6	281.6
45°	7750.1	7206.2	1354.8	636.1	602.1	490.4	383.6	286.5	218.5	199.1	203.9
47.5°	9192.3	8119.1	971.2	597.3	563.3	427.3	301.1	203.9	160.2	150.5	155.4
50°	11076.4	9202.0	757.5	553.6	514.7	359.3	223.4	150.5	126.3	121.4	126.3
52.5°	13052.7	10294.6	665.3	514.7	441.9	286.5	165.1	121.4	106.8	102.0	106.8
55°	14742.6	10998.7	577.9	456.5	354.5	213.7	131.1	106.8	92.3	77.7	77.7
57.5°	16451.9	11353.2	456.5	378.8	262.2	160.2	111.7	92.3	77.7	63.1	58.3
60°	17840.7	11605.7	325.3	281.6	184.5	126.3	97.1	82.6	63.1	48.6	43.7
62.5°	18753.6	10882.1	237.9	213.7	136.0	106.8	82.6	68.0	48.6	34.0	34.0
65°	18302.0	9881.8	184.5	150.5	102.0	82.6	68.0	48.6	34.0	19.4	14.6
67.5°	16422.8	8051.1	150.5	111.7	77.7	63.1	53.4	38.8	19.4	4.9	4.9
70°	12251.5	5900.0	121.4	82.6	63.1	48.6	38.8	24.3	9.7	4.9	0.0
72.5°	6701.2	3229.2	97.1	68.0	48.6	38.8	29.1	19.4	9.7	0.0	0.0
75°	2214.3	859.5	72.8	48.6	29.1	24.3	19.4	14.6	4.9	0.0	0.0
77.5°	534.2	223.4	58.3	43.7	24.3	14.6	9.7	4.9	4.9	0.0	0.0
80°	165.1	92.3	43.7	29.1	19.4	14.6	4.9	0.0	0.0	0.0	0.0
82.5°	68.0	43.7	19.4	19.4	14.6	4.9	0.0	0.0	0.0	0.0	0.0
85°	34.0	24.3	14.6	9.7	9.7	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	24.3	9.7	4.9	4.9	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)