

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: P481694

Luminaire Tested: **IFLD-L-SA7D-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481694
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

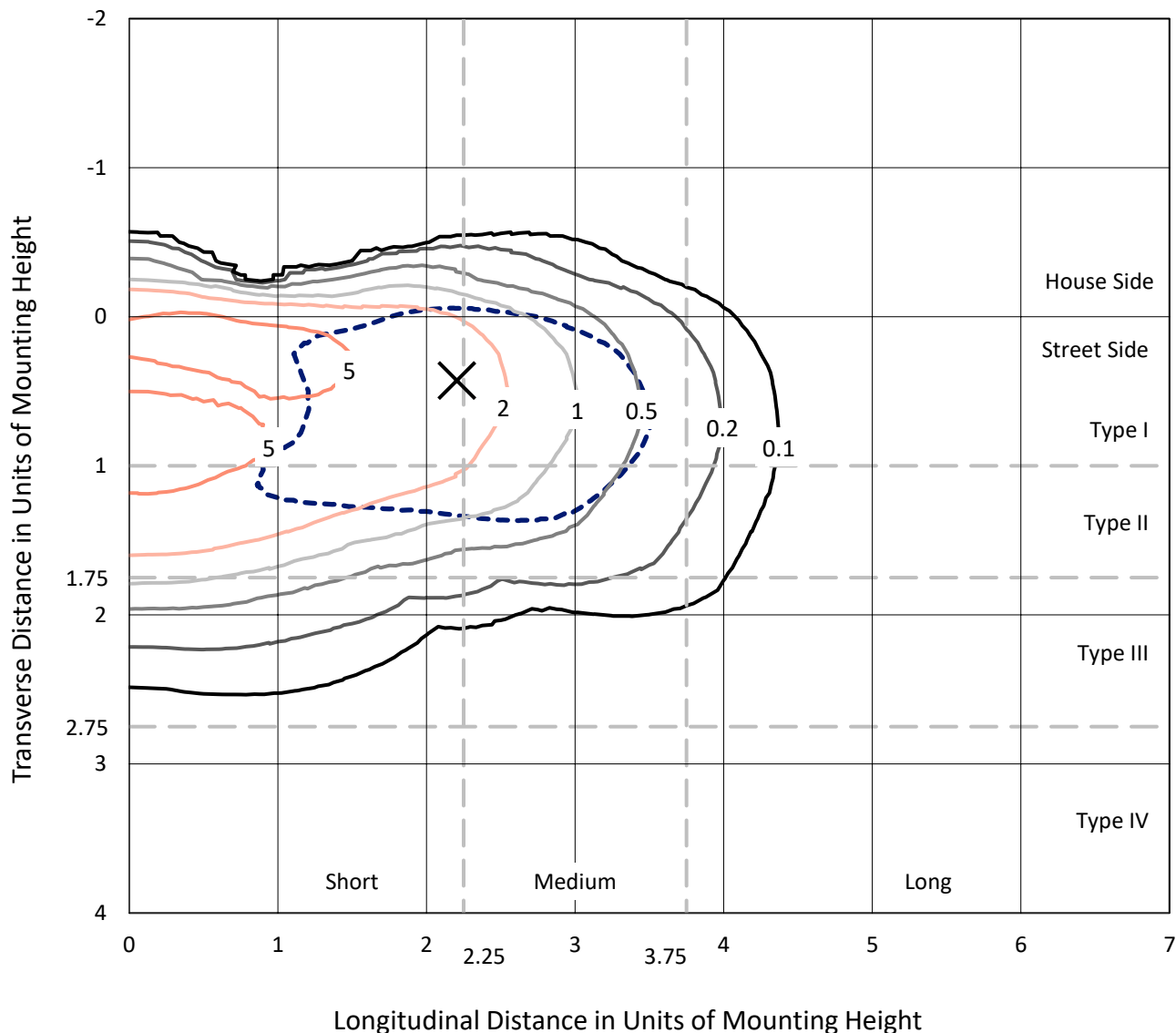
Lumens per Lamp: N/A
Luminaire Lumens: 35127.7 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

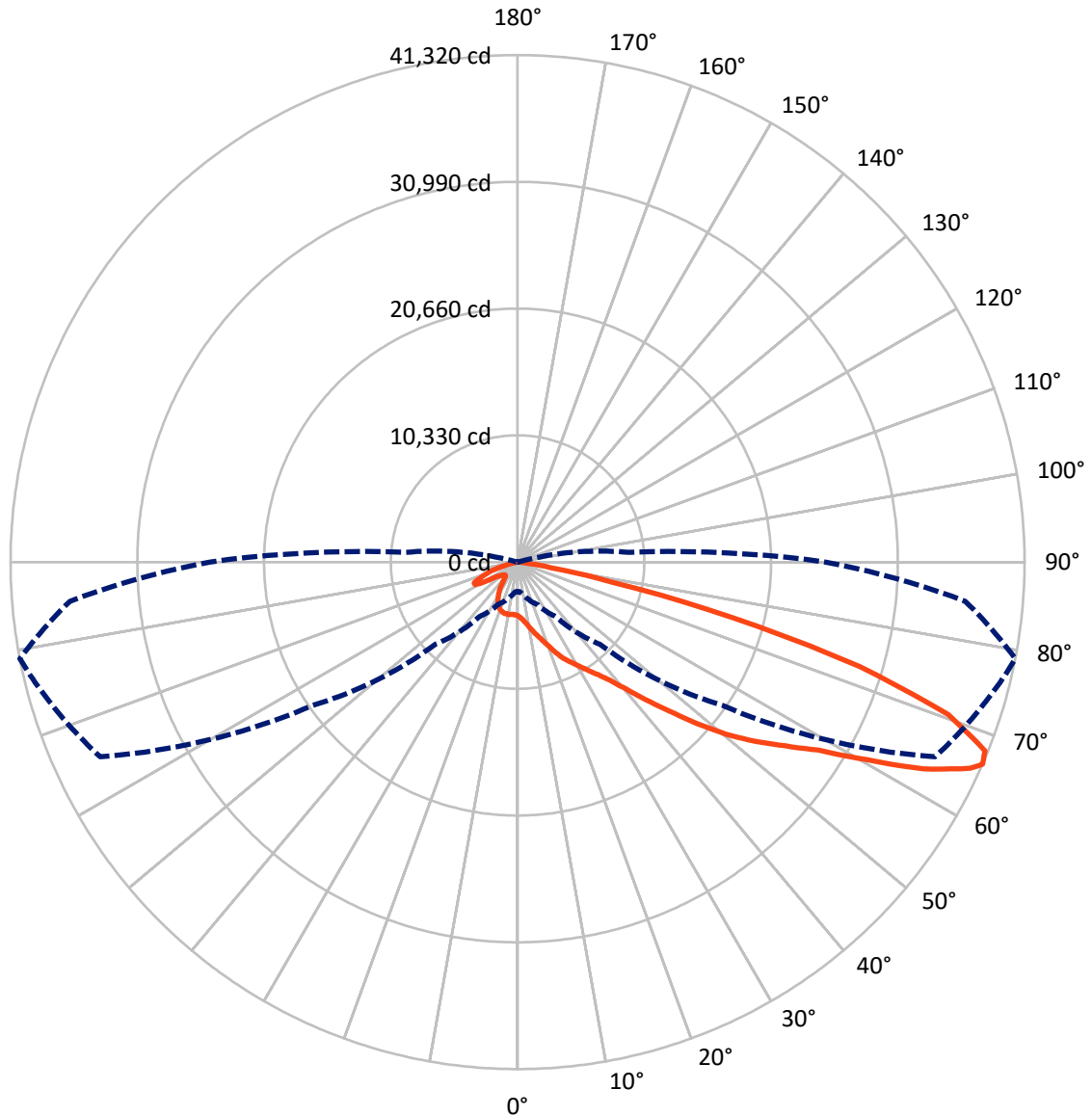
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2637.6	0.0	2637.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	32490.1	0.0	32490.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	35127.7	0.0	35127.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.3	1.2
10°-20°	1137.5	3.2
20°-30°	1889.7	5.4
30°-40°	3245.7	9.2
40°-50°	5880.0	16.7
50°-60°	9294.6	26.5
60°-70°	9457.9	26.9
70°-80°	3606.8	10.3
80°-90°	202.2	0.6
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°	35127.7	100.0
0°-180°	35127.7	100.0



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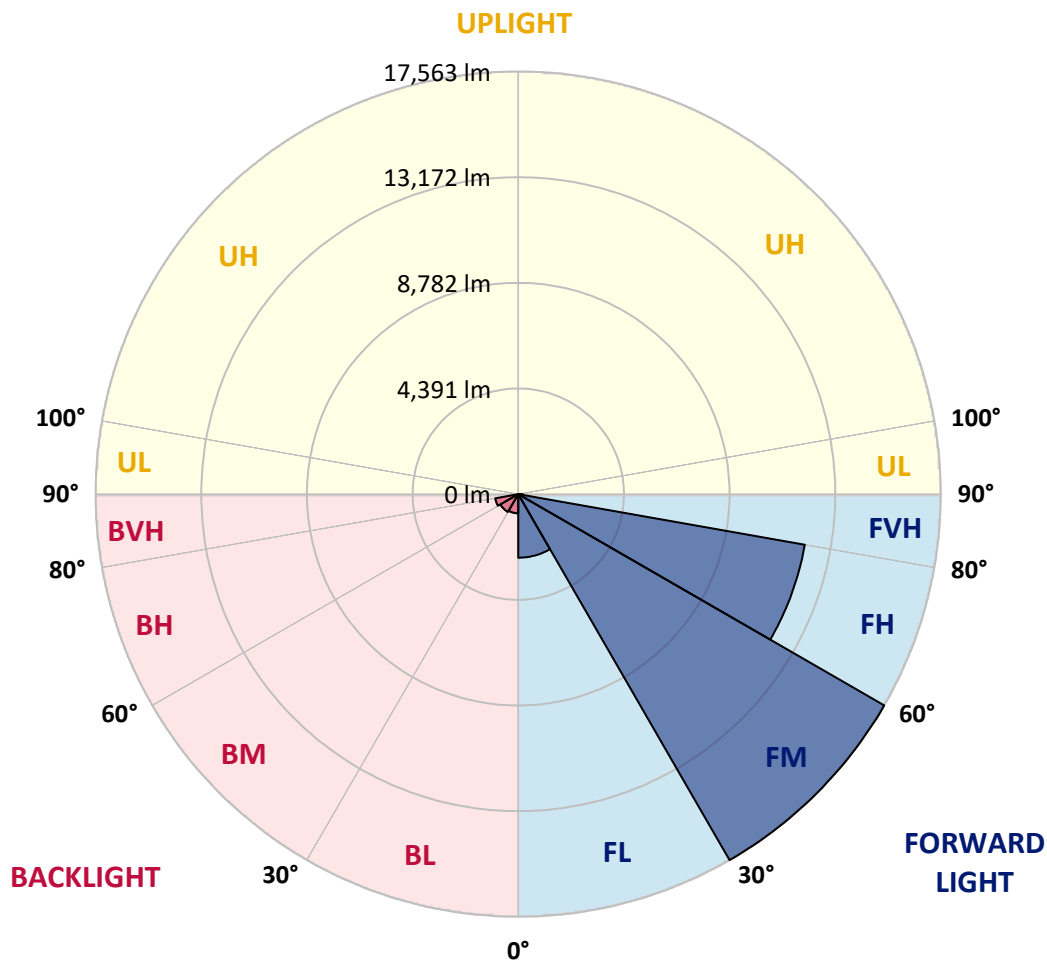
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.8	7.5			
FM (30°-60°)	17563.0	50.0			
FH (60°-80°)	12092.4	34.4			G5
FVH (80°-90°)	191.9	0.5			G2/225
BL (0°-30°)	797.7	2.3	B2/1000		
BM (30°-60°)	857.3	2.4	B1/1000		
BH (60°-80°)	972.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3
2.5°	4949.8	4944.3	4922.7	4884.8	4836.0	4819.8	4749.4	4651.9	4597.8	4538.2	4511.1
5°	5290.9	5263.9	5328.8	5301.8	5312.6	5182.6	5096.0	5025.6	4819.8	4738.6	4608.6
7.5°	5366.8	5393.8	5388.4	5431.7	5475.1	5523.8	5464.2	5361.3	5155.6	5036.4	4895.6
10°	5366.8	5355.9	5399.2	5458.8	5583.4	5691.7	5854.2	5718.8	5561.7	5420.9	5166.4
12.5°	5269.3	5253.0	5296.4	5420.9	5642.9	5865.0	6043.7	6173.7	5951.6	5837.9	5507.6
15°	4971.4	4955.2	5133.9	5355.9	5648.4	6011.2	6384.9	6596.1	6444.4	6265.7	5897.5
17.5°	4603.2	4624.8	4814.4	5182.6	5648.4	6081.6	6558.2	7018.5	6996.8	6769.4	6384.9
20°	4478.6	4494.9	4684.4	4949.8	5480.5	6130.3	6828.9	7478.8	7608.8	7338.0	6834.4
22.5°	4716.9	4700.6	4716.9	4879.4	5366.8	6087.0	7007.7	8004.1	8237.0	8025.8	7424.6
25°	5529.2	5518.4	5383.0	5133.9	5301.8	5989.5	7099.7	8350.7	8886.8	8691.9	7901.2
27.5°	6720.6	6677.3	6466.1	5946.2	5605.0	6049.1	7251.3	8686.5	9455.5	9233.4	8329.0
30°	7998.7	7895.8	7619.6	6969.7	6390.3	6271.1	7338.0	8935.6	10089.1	9807.5	8702.7
32.5°	8881.4	9016.8	8930.2	8269.5	7381.3	6785.6	7478.8	9249.7	10673.9	10489.8	9341.7
35°	10246.1	10403.2	10040.3	9455.5	8561.9	7603.4	7776.7	9504.2	11572.9	11264.2	9937.4
37.5°	11968.2	12087.4	11827.4	10717.3	9775.0	8610.6	8388.6	10034.9	12347.3	12201.1	10701.0
40°	12834.7	13408.8	13040.5	12038.6	11025.9	10018.7	9401.3	10657.7	13695.8	13576.6	11757.0
42.5°	14031.5	14318.6	14129.0	13387.1	12331.1	11524.2	10652.3	11870.8	15331.3	15331.3	13186.7
45°	15298.8	15309.6	15298.8	14692.2	13755.4	13338.4	12341.9	13392.5	17091.3	17286.3	14898.0
47.5°	16338.5	16663.5	16636.4	16273.6	15547.9	15390.8	14031.5	15125.5	19300.8	19642.0	16566.0
50°	16874.7	17237.5	17345.8	17535.4	17502.9	17833.2	15878.2	17134.6	21207.1	22046.5	18710.5
52.5°	16728.5	16755.5	17421.6	18169.0	19360.4	20286.4	18104.0	19414.5	23438.3	24266.8	20367.7
55°	15531.6	15428.7	16798.9	17654.5	20118.6	21786.5	21185.4	22257.7	25176.6	26438.4	22079.0
57.5°	12905.1	12932.2	14199.4	15937.8	19555.4	22382.2	24478.0	25972.7	27613.6	28886.3	24483.5
60°	8908.5	8876.0	10294.9	12304.0	16246.5	21272.1	26373.5	30787.1	30873.7	32677.1	28799.6
62.5°	5009.3	5020.2	6097.8	7814.6	11367.1	17383.7	26281.4	35899.3	35531.1	37112.4	33706.0
65°	2837.7	2908.1	3650.0	4630.2	6807.3	11670.4	22604.3	37935.5	39121.5	40529.6	36684.6
66°	2399.1	2447.8	3081.4	3823.3	5431.7	9466.3	20346.0	37540.2	40248.0	41320.2	36625.0
67.5°	1857.5	1922.5	2453.2	3032.7	3985.8	6552.7	16376.5	35574.4	40453.7	41081.9	35590.6
70°	1272.6	1316.0	1722.1	2301.6	2724.0	3352.2	9791.2	29411.6	36706.2	37236.9	30933.3
72.5°	893.6	915.2	1207.7	1743.8	2095.8	1917.1	4857.7	20925.5	28090.2	29124.5	24061.0
75°	644.4	666.1	828.6	1251.0	1635.5	1256.4	2225.8	13365.4	17226.7	18039.0	14491.9
77.5°	465.7	492.8	563.2	806.9	1186.0	882.7	1093.9	6980.6	8123.2	7982.4	6233.2
80°	281.6	308.7	417.0	519.9	866.5	622.8	601.1	2913.5	2881.0	2734.8	1960.4
82.5°	130.0	151.6	222.0	352.0	606.5	433.2	287.0	1039.8	909.8	834.0	552.4
85°	37.9	48.7	130.0	265.4	308.7	211.2	173.3	357.4	373.7	319.5	184.1
87.5°	0.0	5.4	59.6	65.0	92.1	70.4	65.0	92.1	173.3	140.8	59.6
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°	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3
2.5°	4413.6	4375.7	4283.7	4142.9	4018.3	3953.3	3861.2	3780.0	3736.7	3731.3	3725.9
5°	4521.9	4419.0	4197.0	3942.5	3752.9	3547.1	3406.3	3303.5	3206.0	3113.9	3168.1
7.5°	4668.2	4505.7	4142.9	3812.5	3400.9	3135.6	2886.5	2740.2	2653.6	2572.4	2561.5
10°	4895.6	4689.8	4104.9	3509.2	3038.1	2648.2	2393.6	2182.4	2063.3	1922.5	1976.7
12.5°	5204.3	4836.0	3964.1	3233.1	2626.5	2214.9	1852.1	1510.9	1321.4	1175.2	1180.6
15°	5513.0	5031.0	3834.2	2897.3	2252.8	1711.3	1180.6	947.7	893.6	861.1	871.9
17.5°	5816.2	5188.0	3633.8	2556.1	1825.0	1088.5	861.1	812.3	785.2	752.8	752.8
20°	6184.5	5290.9	3384.7	2242.0	1256.4	806.9	736.5	704.0	660.7	617.4	622.8
22.5°	6541.9	5377.6	3097.7	1841.3	844.8	698.6	617.4	574.0	536.1	492.8	492.8
25°	6899.3	5404.7	2724.0	1321.4	682.4	557.8	482.0	422.4	384.5	346.6	352.0
27.5°	7143.0	5236.8	2372.0	844.8	547.0	422.4	335.8	287.0	254.5	216.6	216.6
30°	7283.8	4928.1	1992.9	595.7	411.6	287.0	200.4	151.6	119.1	92.1	86.6
32.5°	7424.6	4679.0	1565.1	454.9	270.8	151.6	75.8	27.1	0.0	0.0	0.0
35°	7706.2	4397.4	1050.6	254.5	92.1	5.4	0.0	0.0	0.0	0.0	0.0
37.5°	7885.0	4007.5	482.0	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8334.4	3812.5	119.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9065.5	3677.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9867.0	3623.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10933.9	3769.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12060.3	4164.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13295.0	4538.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14372.7	4987.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	16354.8	6049.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	19912.8	8134.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	23920.2	9682.9	59.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	25387.8	9645.0	102.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	25127.9	9114.3	102.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	23779.4	8096.2	92.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	20421.8	6688.1	92.1	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15569.5	5209.7	86.6	21.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	9395.9	2772.7	70.4	27.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3742.1	974.8	54.2	21.7	10.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	1012.7	292.4	32.5	21.7	16.2	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	265.4	108.3	27.1	21.7	10.8	5.4	0.0	0.0	0.0	0.0	0.0
85°	102.9	43.3	21.7	16.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0
87.5°	32.5	16.2	16.2	10.8	10.8	5.4	5.4	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)