

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: P482157

Luminaire Tested: **IFLD-M-SA4D-760-U-T2R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482157  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-760-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R  
distribution lens with House Side Shield  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

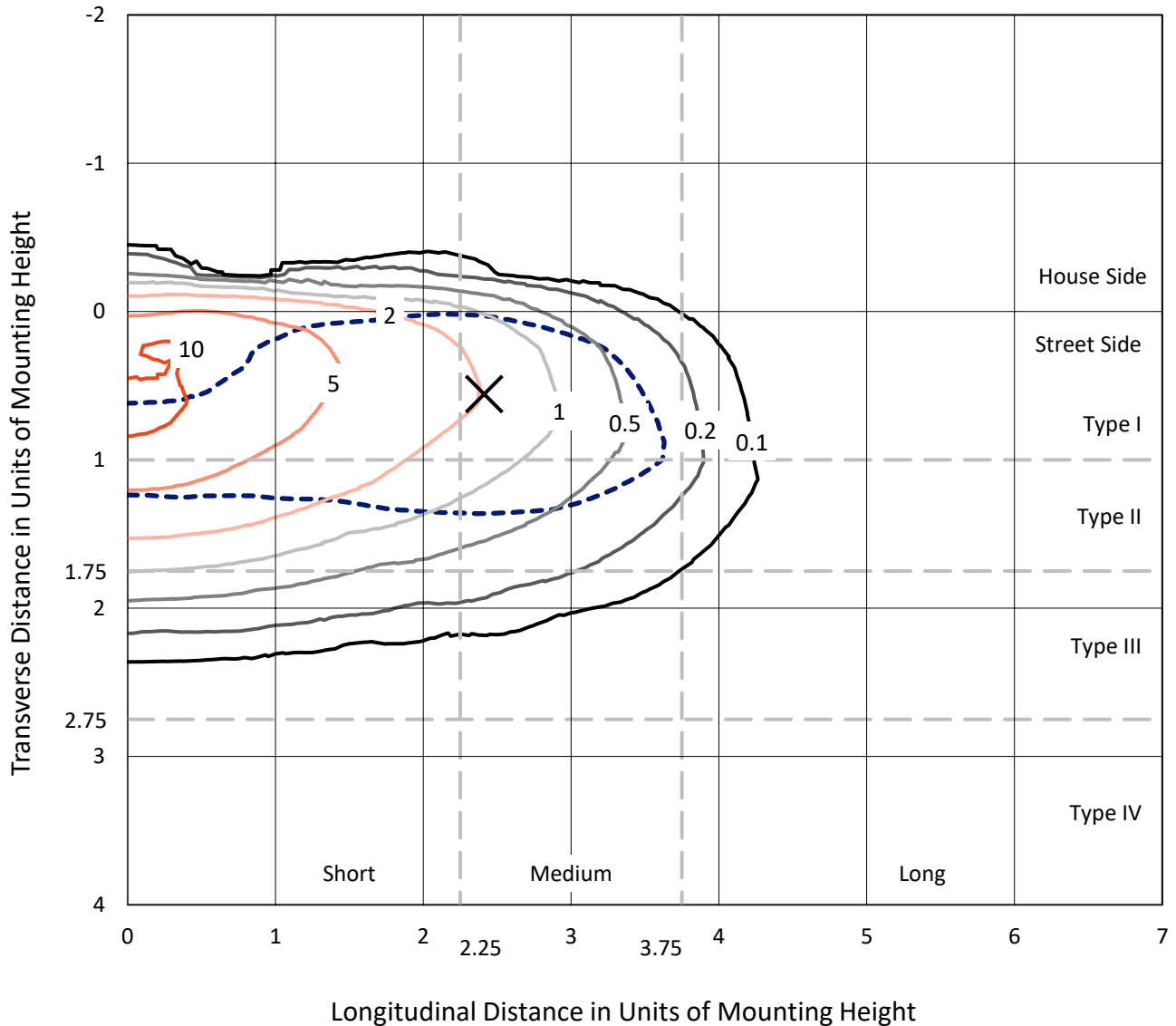
Lumens per Lamp: N/A  
Luminaire Lumens: 25158.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

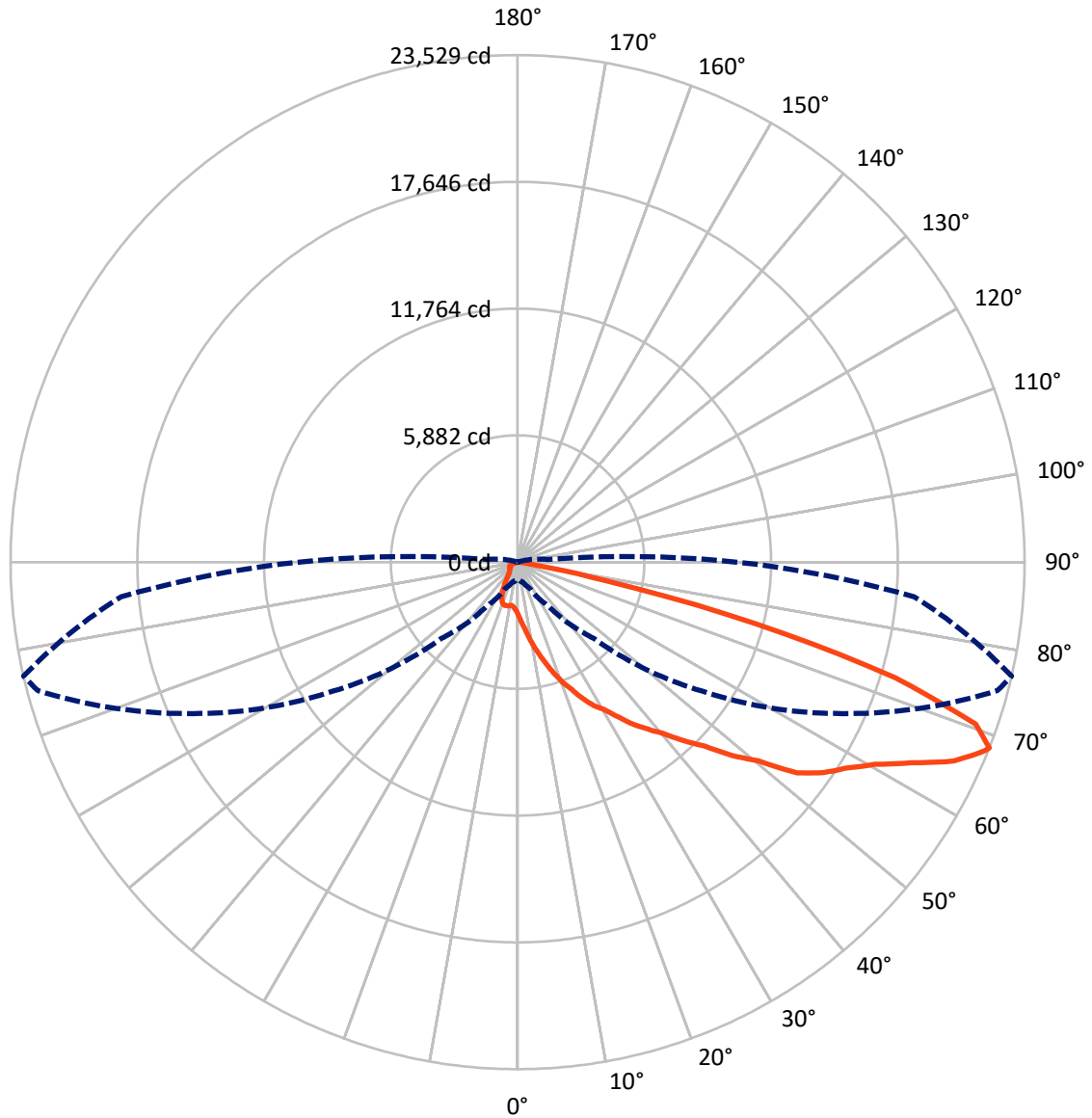
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1140.9	0.0	1140.9
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	24018.0	0.0	24018.0
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	25158.9	0.0	25158.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.4	1.1
10°-20°	1038.0	4.1
20°-30°	2011.6	8.0
30°-40°	3506.9	13.9
40°-50°	5136.2	20.4
50°-60°	6034.2	24.0
60°-70°	5095.3	20.3
70°-80°	1975.1	7.9
80°-90°	80.3	0.3
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°	25158.9	100.0
0°-180°	25158.9	100.0

**Coefficient of Utilization**

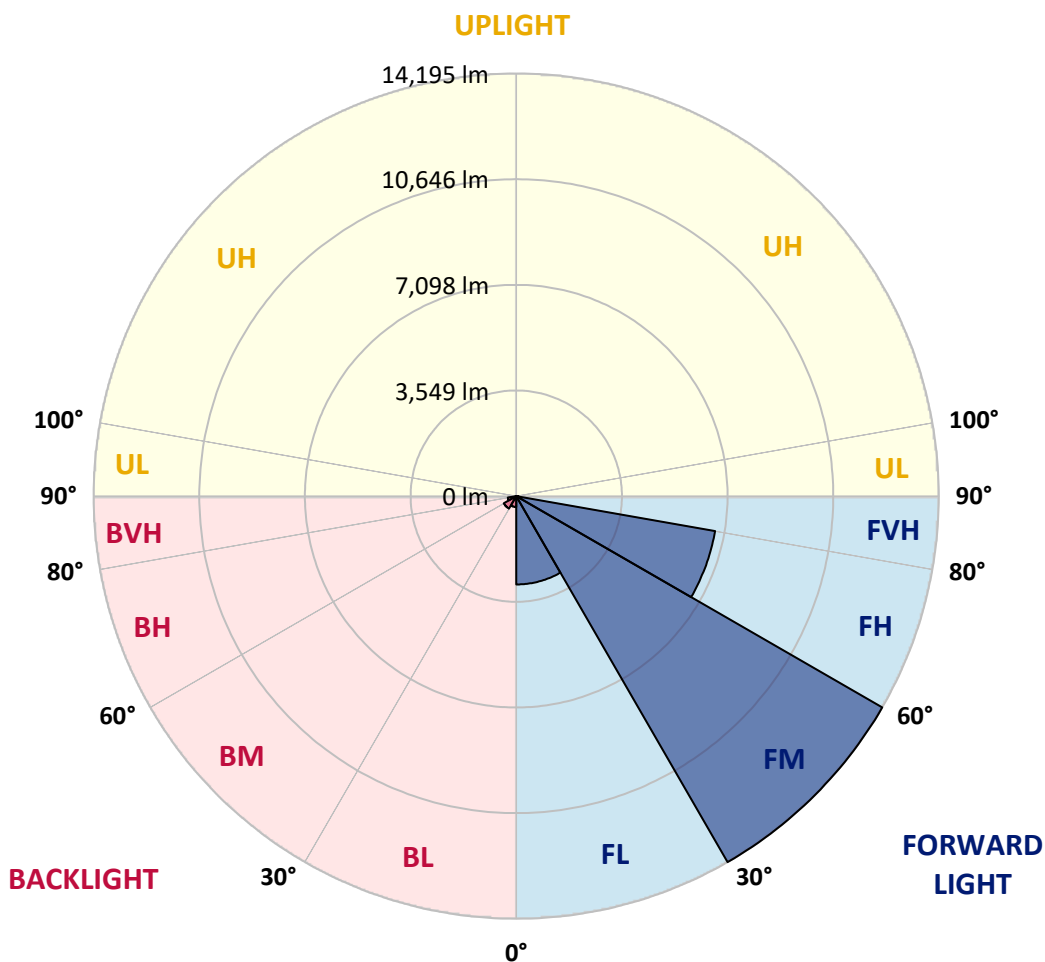


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2966.5	11.8			
FM (30°-60°)	14195.1	56.4			
FH (60°-80°)	6782.3	27.0			G3/7500
FVH (80°-90°)	74.1	0.3			G1/100
BL (0°-30°)	364.5	1.4	B1/500		
BM (30°-60°)	482.1	1.9	B1/1000		
BH (60°-80°)	288.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0
2.5°	3660.3	3591.0	3518.2	3497.4	3362.2	3209.7	3067.6	2928.9	2696.7	2700.2	2540.7
5°	4717.5	4630.8	4571.9	4558.0	4346.6	4083.2	3868.3	3476.6	3091.8	3005.2	2714.0
7.5°	5587.5	5559.8	5473.1	5400.3	5244.3	4922.0	4669.0	4107.4	3521.7	3424.6	2925.5
10°	6114.4	6156.0	6194.1	6100.5	5979.2	5746.9	5400.3	4793.7	4010.4	3889.1	3199.3
12.5°	6675.9	6606.6	6630.8	6707.1	6547.6	6495.6	6065.8	5500.8	4582.3	4350.1	3545.9
15°	6821.5	6849.2	6908.1	7130.0	7237.4	7088.4	6717.5	6072.8	5175.0	4852.7	3868.3
17.5°	6918.5	6904.7	6977.4	7310.2	7473.1	7615.2	7383.0	6710.5	5691.5	5403.8	4270.3
20°	7039.8	6963.6	7123.0	7334.5	7712.3	8010.4	8000.0	7351.8	6232.2	5927.2	4669.0
22.5°	7490.4	7431.5	7559.8	7580.6	7844.0	8259.9	8360.5	7875.2	6786.8	6412.5	5098.8
25°	8322.3	8429.8	8277.3	8145.5	8225.3	8499.1	8571.9	8339.7	7344.9	7001.7	5528.6
27.5°	9539.0	9525.1	9223.5	9053.7	8863.1	8828.4	8880.4	8772.9	7785.1	7539.0	5882.1
30°	10845.7	10731.3	10454.0	10045.0	9625.6	9365.6	9292.9	9181.9	8301.5	7944.5	6232.2
32.5°	11885.6	11948.0	11639.5	11105.7	10409.0	10058.9	9708.8	9587.5	8870.0	8554.6	6634.3
35°	12842.2	12759.0	12512.9	12062.3	11438.4	10873.4	10325.8	10065.8	9552.8	9240.9	7078.0
37.5°	13549.3	13653.3	13185.4	12755.6	12135.1	11667.2	11129.9	10561.5	10256.5	9840.5	7618.7
40°	14218.3	14055.4	13740.0	13344.8	12769.4	12412.4	12058.9	11171.5	11005.2	10467.9	8228.7
42.5°	14100.5	14110.9	13937.6	13618.7	13202.7	12998.2	12876.9	11913.3	11684.5	11341.4	8824.9
45°	13618.7	13660.3	13719.2	13563.2	13597.9	13393.4	13719.2	12766.0	12540.7	12176.7	9511.2
47.5°	13088.3	13157.7	13143.8	13428.0	13750.4	13819.7	14634.3	13712.3	13615.2	13414.2	10461.0
50°	12207.9	12235.7	12502.6	13019.0	13459.2	14183.7	15320.6	14745.2	14894.2	14499.1	11590.9
52.5°	10703.6	10804.1	11490.4	12228.7	13116.1	14367.4	15785.0	16280.7	16658.5	16253.0	12675.9
55°	8800.7	8939.3	9615.2	10998.2	12298.0	14090.1	16207.9	17091.8	17857.8	17244.3	13334.4
57.5°	7081.4	7095.3	7701.9	9129.9	11136.9	13545.9	16422.8	17486.9	18516.4	18024.2	14138.6
60°	5396.9	5341.4	5885.6	7123.0	9181.9	12207.9	15885.6	17688.0	19337.9	19053.7	15105.7
62.5°	3473.1	3386.5	3979.2	5185.4	7171.5	9979.2	14811.0	17691.4	20620.4	20512.9	16724.4
65°	1719.2	1660.3	2169.8	3178.5	4963.6	7632.6	13279.0	17625.6	22187.1	22256.4	18301.5
67.5°	908.1	928.9	1091.9	1611.8	2863.1	5393.4	10970.5	16852.6	22987.8	23376.0	18682.8
68°	835.4	842.3	970.5	1341.4	2485.3	5001.7	10422.8	16627.3	23050.2	23528.5	18471.3
70°	679.4	689.8	734.8	842.3	1344.9	3254.8	8041.6	14714.0	22110.8	22547.6	16720.9
72.5°	540.7	571.9	599.7	644.7	790.3	1708.8	5001.7	11466.2	18266.8	18315.4	13015.5
75°	412.5	436.7	492.2	530.3	617.0	939.3	2381.3	6991.3	11986.1	11396.8	7667.2
77.5°	318.9	339.7	364.0	415.9	516.5	634.3	727.9	2967.1	5091.8	4190.6	2166.4
80°	190.6	204.5	284.2	325.8	450.6	429.8	287.7	825.0	1032.9	814.6	395.1
82.5°	110.9	121.3	162.9	249.6	315.4	232.2	169.8	256.5	253.0	221.8	131.7
85°	3.5	6.9	90.1	149.0	110.9	62.4	104.0	107.5	90.1	83.2	58.9
87.5°	0.0	3.5	24.3	20.8	24.3	13.9	20.8	27.7	34.7	31.2	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°	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0
2.5°	2433.3	2357.0	2187.2	2058.9	1920.3	1837.1	1753.9	1701.9	1674.2	1656.8	1670.7
5°	2495.7	2336.2	2062.4	1819.8	1660.3	1552.9	1445.4	1389.9	1337.9	1310.2	1327.6
7.5°	2634.3	2395.1	1941.1	1677.6	1490.5	1324.1	1188.9	1081.5	1019.1	963.6	974.0
10°	2804.1	2429.8	1944.5	1594.4	1324.1	1060.7	870.0	734.8	658.6	610.0	606.6
12.5°	2977.5	2565.0	1958.4	1511.3	1119.6	797.2	571.9	471.4	426.3	402.1	402.1
15°	3240.9	2686.3	1923.7	1358.7	849.2	519.9	391.7	357.0	339.7	318.9	322.4
17.5°	3469.7	2880.4	1906.4	1130.0	582.3	374.3	325.8	287.7	270.4	249.6	249.6
20°	3778.1	3001.7	1812.8	873.5	402.1	312.0	263.4	228.8	201.0	183.7	187.2
22.5°	4058.9	3095.3	1646.4	596.2	308.5	246.1	194.1	159.4	135.2	114.4	117.9
25°	4363.9	3188.9	1403.8	367.4	218.4	152.5	104.0	76.3	52.0	38.1	38.1
27.5°	4582.3	3216.6	1088.4	218.4	131.7	69.3	24.3	3.5	0.0	0.0	0.0
30°	4804.1	3227.0	752.2	117.9	52.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5057.2	3223.6	471.4	62.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	5251.3	3164.6	225.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5545.9	3078.0	69.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5882.1	2922.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6183.7	2762.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6526.8	2565.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7130.0	2481.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7916.8	2415.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8402.0	2221.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8655.1	2020.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9029.4	1923.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9584.0	1930.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10450.6	2027.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10928.9	1930.7	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10523.4	1545.9	65.9	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	10173.3	1421.1	65.9	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	8409.0	925.5	62.4	17.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6124.8	513.0	52.0	13.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3563.2	256.5	38.1	13.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	928.9	128.2	31.2	17.3	10.4	3.5	0.0	0.0	0.0	0.0	0.0
80°	183.7	83.2	27.7	20.8	13.9	6.9	0.0	0.0	0.0	0.0	0.0
82.5°	86.7	58.9	27.7	20.8	17.3	10.4	3.5	0.0	0.0	0.0	0.0
85°	45.1	27.7	27.7	20.8	20.8	13.9	6.9	0.0	0.0	0.0	0.0
87.5°	20.8	10.4	10.4	10.4	10.4	6.9	3.5	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)