

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: P481815

Luminaire Tested: **IFLD-L-SA8C-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481815
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

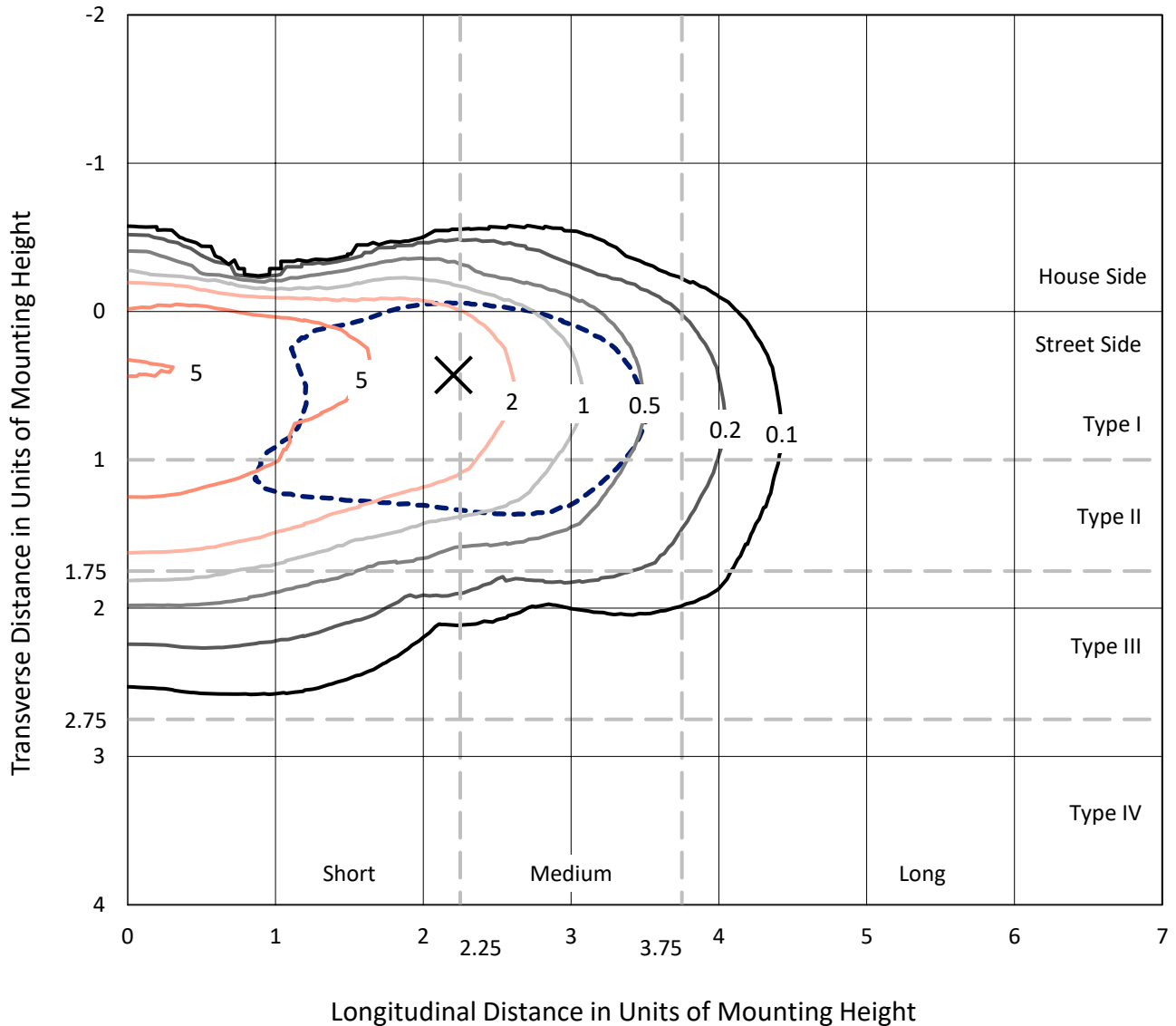
Lumens per Lamp: N/A
Luminaire Lumens: 26820.2 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3
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

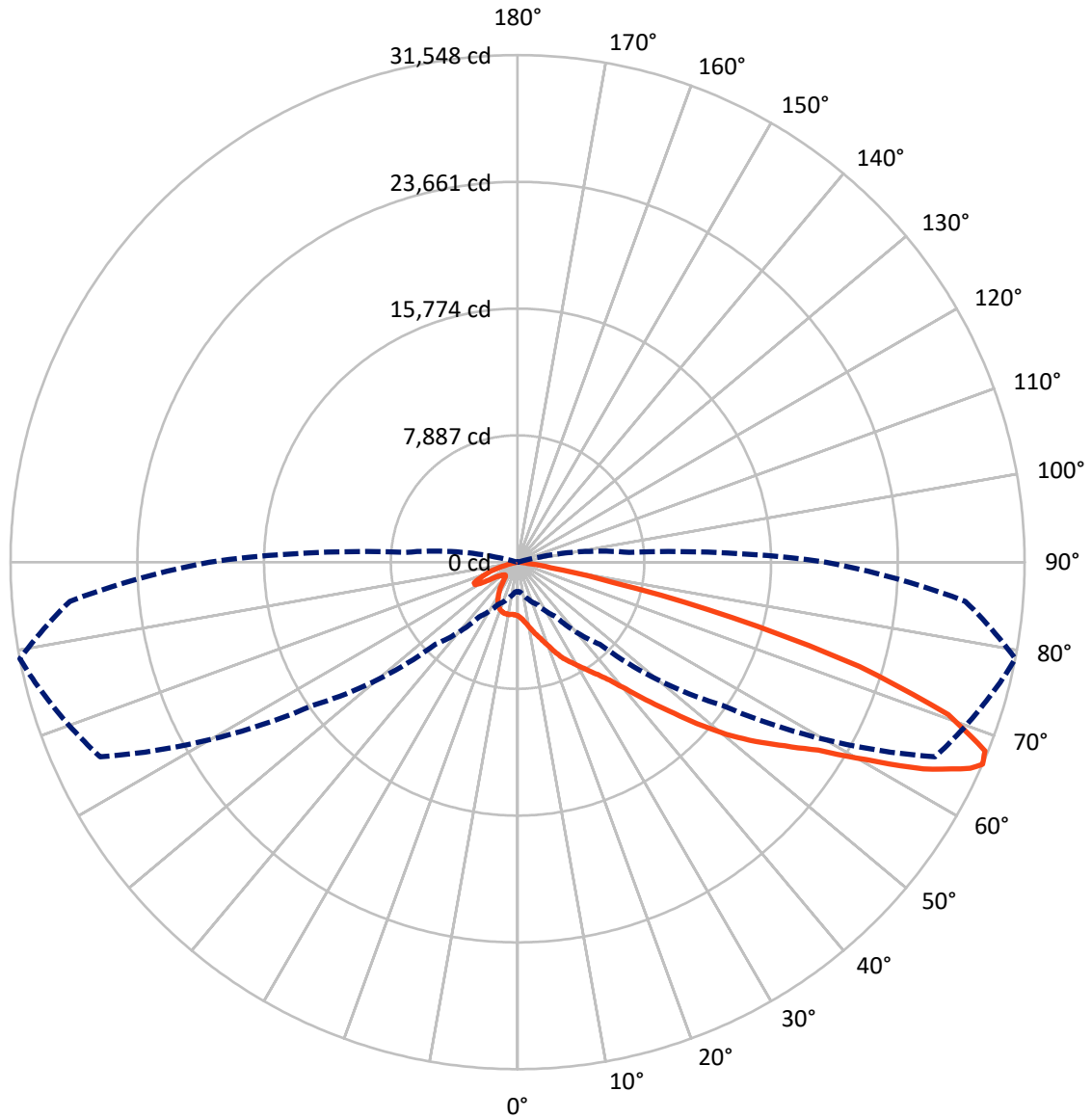
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	2013.8	0.0	2013.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	24806.4	0.0	24806.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	26820.2	0.0	26820.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	1.2
10°-20°	868.5	3.2
20°-30°	1442.8	5.4
30°-40°	2478.1	9.2
40°-50°	4489.4	16.7
50°-60°	7096.5	26.5
60°-70°	7221.2	26.9
70°-80°	2753.8	10.3
80°-90°	154.4	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°	26820.2	100.0
0°-180°	26820.2	100.0



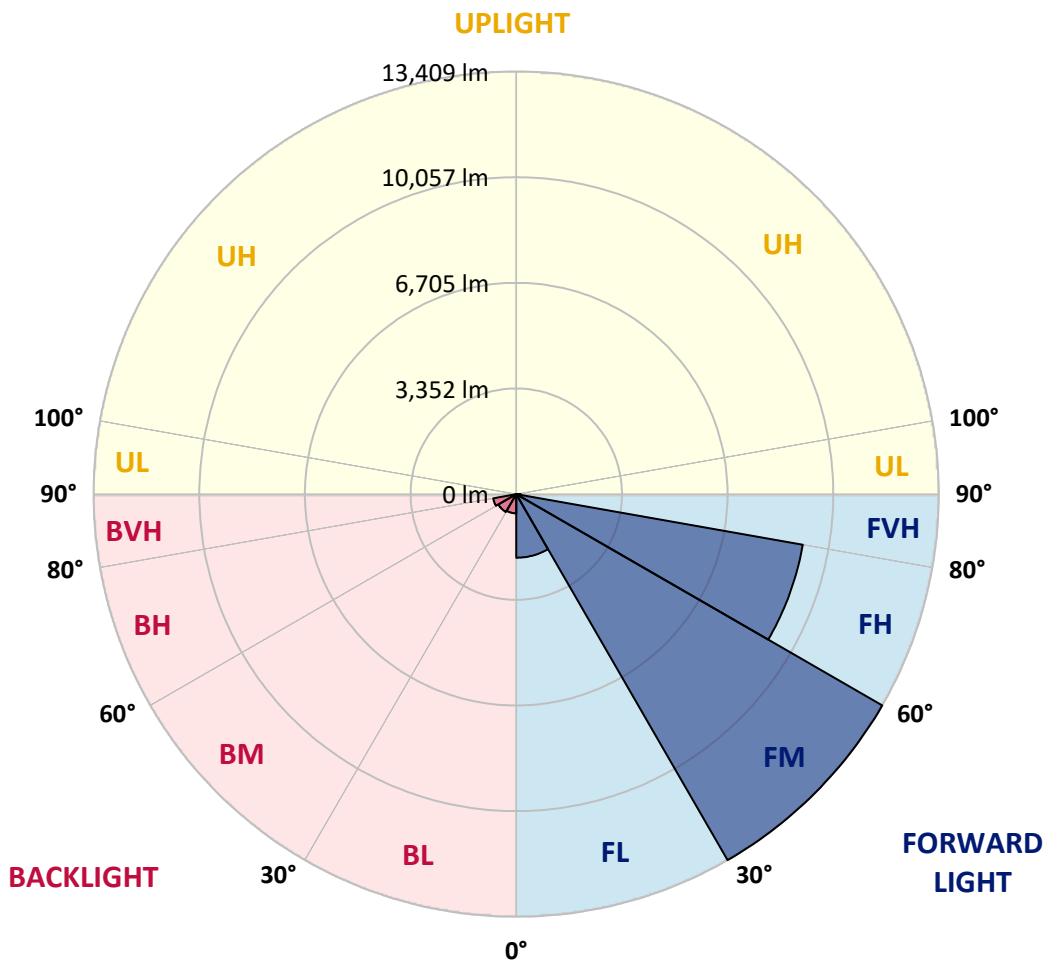
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.8	7.5			
FM (30°-60°)	13409.5	50.0			
FH (60°-80°)	9232.6	34.4			G4/12000
FVH (80°-90°)	146.5	0.5			G2/225
BL (0°-30°)	609.0	2.3	B2/1000		
BM (30°-60°)	654.5	2.4	B1/1000		
BH (60°-80°)	742.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8
2.5°	3779.2	3775.0	3758.5	3729.6	3692.3	3679.9	3626.2	3551.8	3510.4	3464.9	3444.3
5°	4039.7	4019.0	4068.6	4047.9	4056.2	3957.0	3890.8	3837.1	3679.9	3617.9	3518.7
7.5°	4097.5	4118.2	4114.1	4147.2	4180.2	4217.5	4172.0	4093.4	3936.3	3845.3	3737.8
10°	4097.5	4089.3	4122.4	4167.8	4262.9	4345.6	4469.7	4366.3	4246.4	4138.9	3944.6
12.5°	4023.1	4010.7	4043.8	4138.9	4308.4	4477.9	4614.4	4713.6	4544.1	4457.3	4205.1
15°	3795.7	3783.3	3919.8	4089.3	4312.6	4589.6	4874.9	5036.1	4920.4	4783.9	4502.8
17.5°	3514.5	3531.1	3675.8	3957.0	4312.6	4643.3	5007.2	5358.6	5342.1	5168.5	4874.9
20°	3419.4	3431.9	3576.6	3779.2	4184.4	4680.5	5213.9	5710.1	5809.3	5602.6	5218.1
22.5°	3601.4	3589.0	3601.4	3725.4	4097.5	4647.5	5350.4	6111.2	6289.0	6127.7	5668.8
25°	4221.6	4213.3	4110.0	3919.8	4047.9	4573.0	5420.7	6375.8	6785.1	6636.3	6032.6
27.5°	5131.2	5098.2	4936.9	4540.0	4279.5	4618.5	5536.4	6632.2	7219.3	7049.8	6359.3
30°	6107.0	6028.5	5817.6	5321.4	4879.0	4788.1	5602.6	6822.4	7703.1	7488.1	6644.6
32.5°	6781.0	6884.4	6818.2	6313.8	5635.7	5180.9	5710.1	7062.2	8149.6	8009.0	7132.5
35°	7823.0	7942.9	7665.8	7219.3	6537.1	5805.2	5937.5	7256.5	8836.0	8600.3	7587.3
37.5°	9137.8	9228.8	9030.3	8182.7	7463.2	6574.3	6404.7	7661.7	9427.3	9315.6	8170.3
40°	9799.4	10237.7	9956.5	9191.6	8418.4	7649.3	7177.9	8137.2	10456.8	10365.8	8976.6
42.5°	10713.2	10932.3	10787.6	10221.1	9414.8	8798.8	8133.1	9063.4	11705.5	11705.5	10068.1
45°	11680.7	11689.0	11680.7	11217.6	10502.3	10183.9	9423.1	10225.3	13049.3	13198.2	11374.7
47.5°	12474.6	12722.7	12702.0	12425.0	11870.9	11751.0	10713.2	11548.4	14736.3	14996.8	12648.2
50°	12883.9	13160.9	13243.6	13388.4	13363.5	13615.8	12123.1	13082.4	16191.7	16832.6	14285.6
52.5°	12772.3	12792.9	13301.5	13872.1	14781.8	15488.8	13822.5	14823.1	17895.2	18527.9	15550.8
55°	11858.5	11779.9	12826.0	13479.3	15360.6	16634.1	16175.2	16993.9	19222.5	20185.9	16857.4
57.5°	9853.1	9873.8	10841.3	12168.6	14930.6	17089.0	18689.1	19830.3	21083.1	22054.8	18693.3
60°	6801.7	6776.9	7860.2	9394.2	12404.3	16241.3	20136.3	23506.1	23572.3	24949.1	21988.7
62.5°	3824.7	3832.9	4655.7	5966.5	8678.9	13272.6	20066.0	27409.3	27128.2	28335.5	25734.7
65°	2166.6	2220.4	2786.8	3535.2	5197.4	8910.4	17258.5	28964.0	29869.5	30944.5	28008.9
66°	1831.7	1868.9	2352.7	2919.1	4147.2	7227.6	15534.3	28662.2	30729.5	31548.2	27963.4
67.5°	1418.2	1467.8	1873.0	2315.5	3043.2	5003.1	12503.5	27161.2	30886.7	31366.3	27173.6
70°	971.7	1004.7	1314.9	1757.3	2079.8	2559.4	7475.6	22455.9	28025.4	28430.6	23617.7
72.5°	682.2	698.8	922.1	1331.4	1600.2	1463.7	3708.9	15976.7	21447.0	22236.7	18370.7
75°	492.0	508.6	632.6	955.1	1248.7	959.3	1699.4	10204.6	13152.7	13772.9	11064.6
77.5°	355.6	376.3	430.0	616.1	905.5	674.0	835.2	5329.7	6202.1	6094.6	4759.1
80°	215.0	235.7	318.4	396.9	661.6	475.5	459.0	2224.5	2199.7	2088.1	1496.8
82.5°	99.2	115.8	169.5	268.8	463.1	330.8	219.1	793.9	694.6	636.8	421.7
85°	28.9	37.2	99.2	202.6	235.7	161.3	132.3	272.9	285.3	244.0	140.6
87.5°	0.0	4.1	45.5	49.6	70.3	53.8	49.6	70.3	132.3	107.5	45.5
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°	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8	3336.8
2.5°	3369.8	3340.9	3270.6	3163.1	3068.0	3018.4	2948.1	2886.1	2853.0	2848.8	2844.7
5°	3452.5	3374.0	3204.4	3010.1	2865.4	2708.3	2600.8	2522.2	2447.8	2377.5	2418.8
7.5°	3564.2	3440.1	3163.1	2910.9	2596.6	2394.0	2203.8	2092.2	2026.0	1964.0	1955.7
10°	3737.8	3580.7	3134.1	2679.3	2319.6	2021.9	1827.6	1666.3	1575.3	1467.8	1509.2
12.5°	3973.5	3692.3	3026.6	2468.5	2005.4	1691.1	1414.1	1153.6	1008.9	897.2	901.4
15°	4209.2	3841.2	2927.4	2212.1	1720.1	1306.6	901.4	723.6	682.2	657.4	665.7
17.5°	4440.7	3961.1	2774.4	1951.6	1393.4	831.1	657.4	620.2	599.5	574.7	574.7
20°	4721.9	4039.7	2584.2	1711.8	959.3	616.1	562.3	537.5	504.4	471.4	475.5
22.5°	4994.8	4105.8	2365.1	1405.8	645.0	533.4	471.4	438.3	409.3	376.3	376.3
25°	5267.7	4126.5	2079.8	1008.9	521.0	425.9	368.0	322.5	293.6	264.6	268.8
27.5°	5453.7	3998.3	1811.0	645.0	417.6	322.5	256.4	219.1	194.3	165.4	165.4
30°	5561.3	3762.6	1521.6	454.8	314.2	219.1	153.0	115.8	91.0	70.3	66.2
32.5°	5668.8	3572.4	1194.9	347.3	206.7	115.8	57.9	20.7	0.0	0.0	0.0
35°	5883.8	3357.4	802.1	194.3	70.3	4.1	0.0	0.0	0.0	0.0	0.0
37.5°	6020.2	3059.7	368.0	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6363.4	2910.9	91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6921.6	2807.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7533.5	2766.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8348.1	2877.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9208.1	3179.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10150.8	3464.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10973.7	3808.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12487.0	4618.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15203.5	6210.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18263.2	7393.0	45.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19383.8	7364.0	78.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	19185.3	6958.8	78.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18155.7	6181.5	70.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15592.2	5106.4	70.3	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11887.4	3977.6	66.2	16.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	7173.8	2117.0	53.8	20.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2857.1	744.3	41.3	16.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	773.2	223.3	24.8	16.5	12.4	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	202.6	82.7	20.7	16.5	8.3	4.1	0.0	0.0	0.0	0.0	0.0
85°	78.6	33.1	16.5	12.4	12.4	8.3	4.1	0.0	0.0	0.0	0.0
87.5°	24.8	12.4	12.4	8.3	8.3	4.1	4.1	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)