

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: P482044

Luminaire Tested: **IFLD-L-SA7C-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482044
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

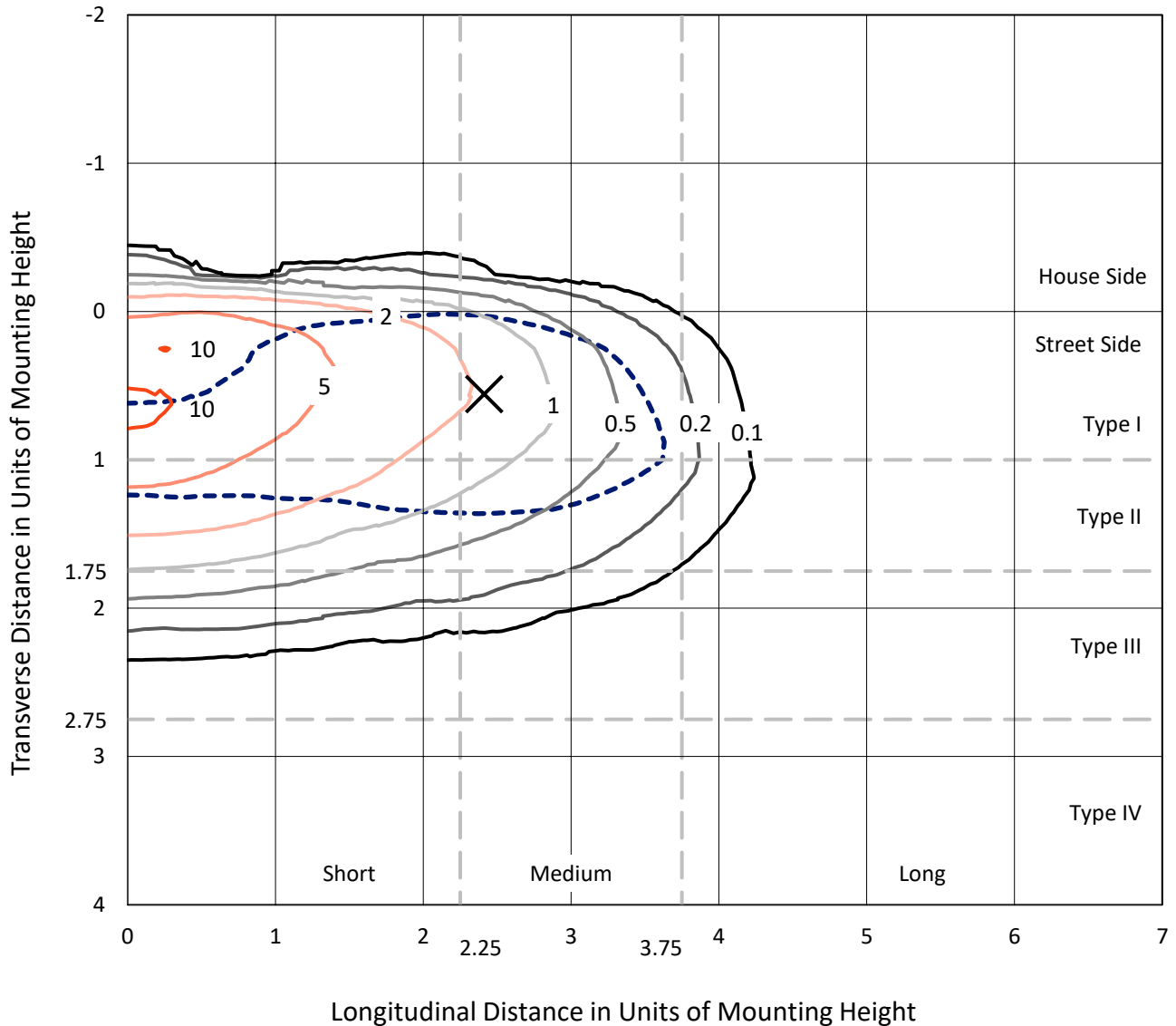
Lumens per Lamp: N/A
Luminaire Lumens: 34375.8 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 369
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

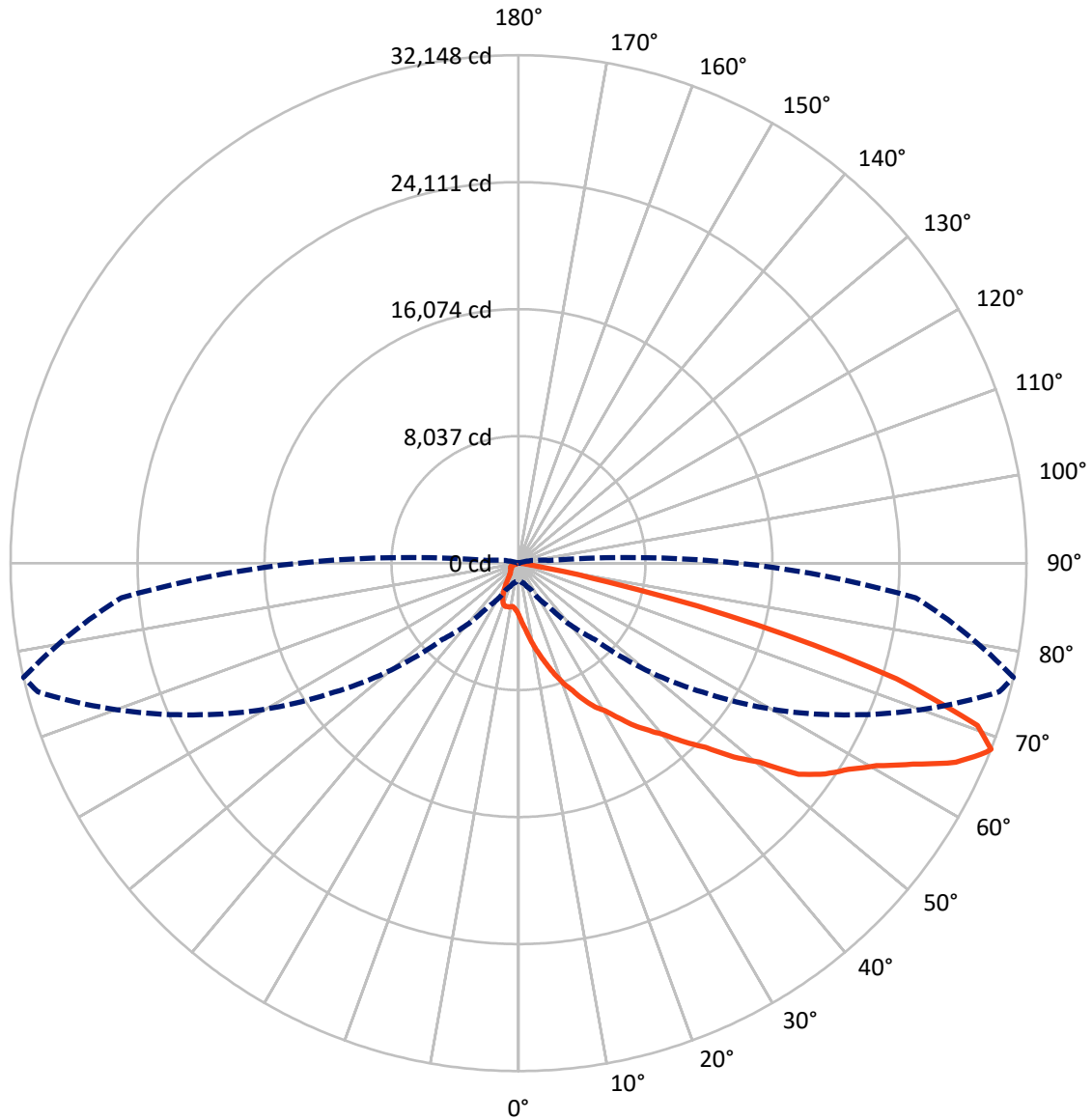
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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
House Side	Lumens	1558.9	0.0	1558.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	32816.9	0.0	32816.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	34375.8	0.0	34375.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	1.1
10°-20°	1418.2	4.1
20°-30°	2748.5	8.0
30°-40°	4791.6	13.9
40°-50°	7017.8	20.4
50°-60°	8244.8	24.0
60°-70°	6962.0	20.3
70°-80°	2698.6	7.9
80°-90°	109.7	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°	34375.8	100.0
0°-180°	34375.8	100.0

Coefficient of Utilization



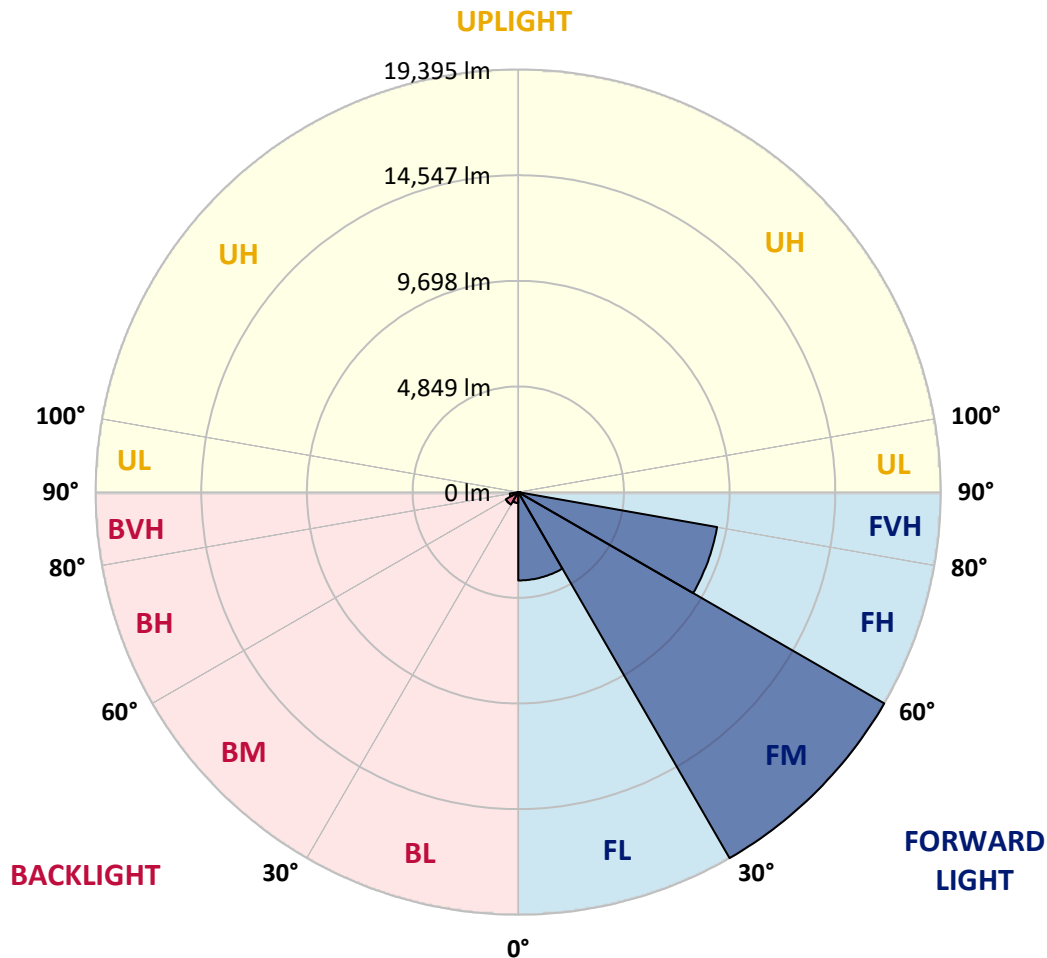
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4053.2	11.8			
FM (30°-60°)	19395.4	56.4			
FH (60°-80°)	9267.0	27.0			G4/12000
FVH (80°-90°)	101.2	0.3			G2/225
BL (0°-30°)	498.1	1.4	B1/500		
BM (30°-60°)	658.7	1.9	B1/1000		
BH (60°-80°)	393.6	1.1	B1/500		G1/500
BVH (80°-90°)	8.5	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5
2.5°	5001.2	4906.5	4807.1	4778.6	4593.9	4385.6	4191.4	4001.9	3684.6	3689.4	3471.5
5°	6445.7	6327.3	6246.8	6227.9	5939.0	5579.0	5285.4	4750.2	4224.5	4106.1	3708.3
7.5°	7634.5	7596.6	7478.2	7378.7	7165.6	6725.1	6379.4	5612.2	4811.8	4679.2	3997.2
10°	8354.3	8411.2	8463.3	8335.4	8169.6	7852.3	7378.7	6549.9	5479.6	5313.8	4371.3
12.5°	9121.6	9026.8	9060.0	9164.2	8946.3	8875.3	8288.0	7516.1	6261.0	5943.7	4844.9
15°	9320.5	9358.4	9438.9	9742.0	9888.8	9685.2	9178.4	8297.5	7070.9	6630.4	5285.4
17.5°	9453.1	9434.1	9533.6	9988.3	10210.9	10405.0	10087.7	9168.9	7776.5	7383.4	5834.8
20°	9618.8	9514.7	9732.5	10021.4	10537.6	10944.9	10930.7	10045.1	8515.4	8098.6	6379.4
22.5°	10234.5	10154.0	10329.3	10357.7	10717.6	11285.9	11423.3	10760.2	9273.1	8761.6	6966.7
25°	11371.2	11518.0	11309.6	11129.6	11238.6	11612.7	11712.2	11394.9	10035.6	9566.8	7553.9
27.5°	13033.5	13014.6	12602.5	12370.5	12110.0	12062.6	12133.7	11986.9	10637.1	10300.8	8037.0
30°	14819.0	14662.7	14283.8	13725.0	13151.9	12796.7	12697.3	12545.7	11342.8	10854.9	8515.4
32.5°	16239.8	16325.0	15903.5	15174.2	14222.3	13743.9	13265.6	13099.8	12119.5	11688.5	9064.7
35°	17546.9	17433.3	17097.0	16481.3	15628.9	14856.9	14108.6	13753.4	13052.5	12626.2	9670.9
37.5°	18513.1	18655.2	18015.8	17428.5	16580.8	15941.4	15207.3	14430.6	14013.9	13445.6	10409.8
40°	19427.1	19204.5	18773.6	18233.7	17447.5	16959.7	16476.6	15264.2	15036.9	14302.8	11243.3
42.5°	19266.1	19280.3	19043.5	18607.8	18039.5	17760.1	17594.3	16277.7	15965.1	15496.2	12057.9
45°	18607.8	18664.6	18745.2	18532.0	18579.4	18300.0	18745.2	17442.7	17134.9	16637.6	12995.6
47.5°	17883.2	17977.9	17959.0	18347.3	18787.8	18882.5	19995.5	18735.7	18603.1	18328.4	14293.3
50°	16680.2	16718.1	17082.8	17788.5	18390.0	19379.8	20933.2	20147.0	20350.7	19810.8	15837.2
52.5°	14624.8	14762.2	15699.9	16708.7	17921.1	19630.8	21567.8	22245.1	22761.3	22207.2	17319.6
55°	12024.7	12214.2	13137.7	15027.4	16803.4	19251.9	22145.6	23353.3	24400.0	23561.7	18219.5
57.5°	9675.7	9694.6	10523.4	12474.7	15216.8	18508.4	22439.2	23893.2	25299.8	24627.3	19318.2
60°	7374.0	7298.2	8041.8	9732.5	12545.7	16680.2	21705.2	24167.9	26422.2	26033.9	20639.6
62.5°	4745.5	4627.1	5436.9	7085.1	9798.8	13635.0	20237.0	24172.6	28174.6	28027.7	22851.3
65°	2349.1	2268.6	2964.7	4342.9	6782.0	10428.7	18143.7	24082.6	30315.2	30410.0	25006.2
67.5°	1240.8	1269.3	1491.8	2202.2	3911.9	7369.2	14989.5	23026.5	31409.3	31939.7	25527.1
68°	1141.4	1150.9	1326.1	1832.8	3395.7	6834.1	14241.2	22718.7	31494.5	32148.1	25238.2
70°	928.3	942.5	1004.0	1150.9	1837.6	4447.1	10987.6	20104.4	30211.0	30807.8	22846.5
72.5°	738.8	781.4	819.3	880.9	1079.8	2334.9	6834.1	15666.7	24958.8	25025.1	17783.7
75°	563.6	596.7	672.5	724.6	843.0	1283.5	3253.6	9552.5	16377.1	15572.0	10476.1
77.5°	435.7	464.1	497.3	568.3	705.7	866.7	994.6	4054.0	6957.2	5725.8	2960.0
80°	260.5	279.4	388.4	445.2	615.7	587.3	393.1	1127.2	1411.3	1113.0	539.9
82.5°	151.6	165.8	222.6	341.0	431.0	317.3	232.1	350.5	345.7	303.1	180.0
85°	4.7	9.5	123.1	203.6	151.6	85.2	142.1	146.8	123.1	113.7	80.5
87.5°	0.0	4.7	33.2	28.4	33.2	18.9	28.4	37.9	47.4	42.6	33.2
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°	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5
2.5°	3324.7	3220.5	2988.4	2813.2	2623.8	2510.1	2396.4	2325.4	2287.5	2263.8	2282.8
5°	3409.9	3192.1	2817.9	2486.4	2268.6	2121.7	1974.9	1899.1	1828.1	1790.2	1813.9
7.5°	3599.4	3272.6	2652.2	2292.2	2036.5	1809.2	1624.5	1477.6	1392.4	1316.6	1330.8
10°	3831.4	3319.9	2656.9	2178.6	1809.2	1449.2	1188.7	1004.0	899.8	833.5	828.8
12.5°	4068.2	3504.7	2675.8	2064.9	1529.7	1089.3	781.4	644.1	582.5	549.4	549.4
15°	4428.2	3670.4	2628.5	1856.5	1160.3	710.4	535.2	487.8	464.1	435.7	440.4
17.5°	4740.8	3935.6	2604.8	1543.9	795.7	511.5	445.2	393.1	369.4	341.0	341.0
20°	5162.3	4101.4	2476.9	1193.5	549.4	426.2	359.9	312.6	274.7	251.0	255.7
22.5°	5545.9	4229.3	2249.6	814.6	421.5	336.3	265.2	217.9	184.7	156.3	161.0
25°	5962.6	4357.1	1918.1	502.0	298.4	208.4	142.1	104.2	71.0	52.1	52.1
27.5°	6261.0	4395.0	1487.1	298.4	180.0	94.7	33.2	4.7	0.0	0.0	0.0
30°	6564.1	4409.2	1027.7	161.0	71.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6909.8	4404.5	644.1	85.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	7175.1	4324.0	307.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7577.6	4205.6	94.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8037.0	3992.5	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8449.1	3774.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8917.9	3504.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9742.0	3391.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10817.1	3301.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11480.1	3035.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11825.8	2761.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12337.3	2628.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13095.1	2638.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14279.1	2770.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14932.7	2638.0	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14378.5	2112.3	90.0	23.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	13900.2	1941.8	90.0	23.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	11489.6	1264.5	85.2	23.7	9.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8368.5	700.9	71.0	18.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	4868.6	350.5	52.1	18.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1269.3	175.2	42.6	23.7	14.2	4.7	0.0	0.0	0.0	0.0	0.0
80°	251.0	113.7	37.9	28.4	18.9	9.5	0.0	0.0	0.0	0.0	0.0
82.5°	118.4	80.5	37.9	28.4	23.7	14.2	4.7	0.0	0.0	0.0	0.0
85°	61.6	37.9	37.9	28.4	28.4	18.9	9.5	0.0	0.0	0.0	0.0
87.5°	28.4	14.2	14.2	14.2	14.2	9.5	4.7	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)