

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: P482050

Luminaire Tested: **IFLD-L-SA8D-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

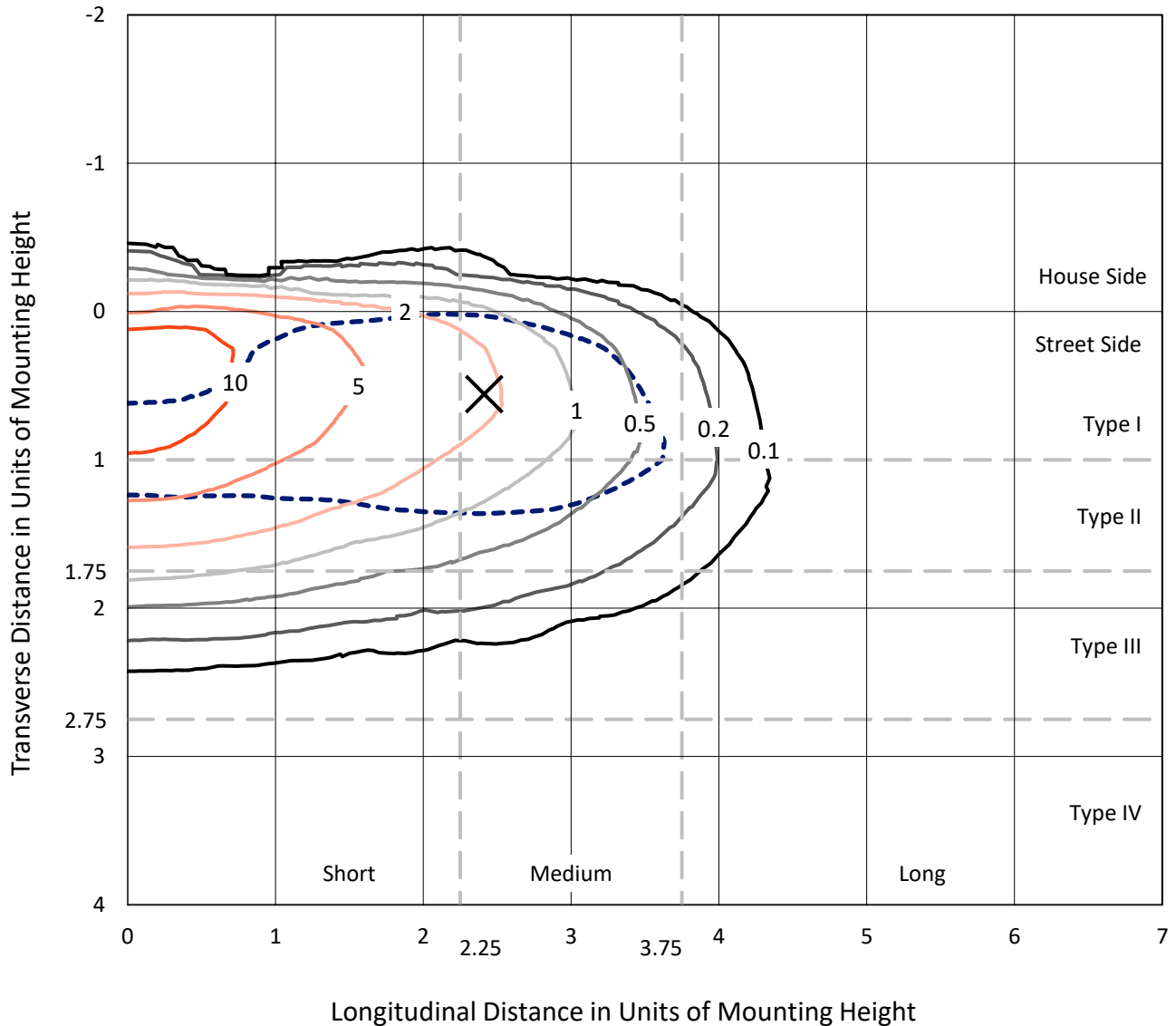
Lumens per Lamp: N/A
Luminaire Lumens: 43228.8 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3
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

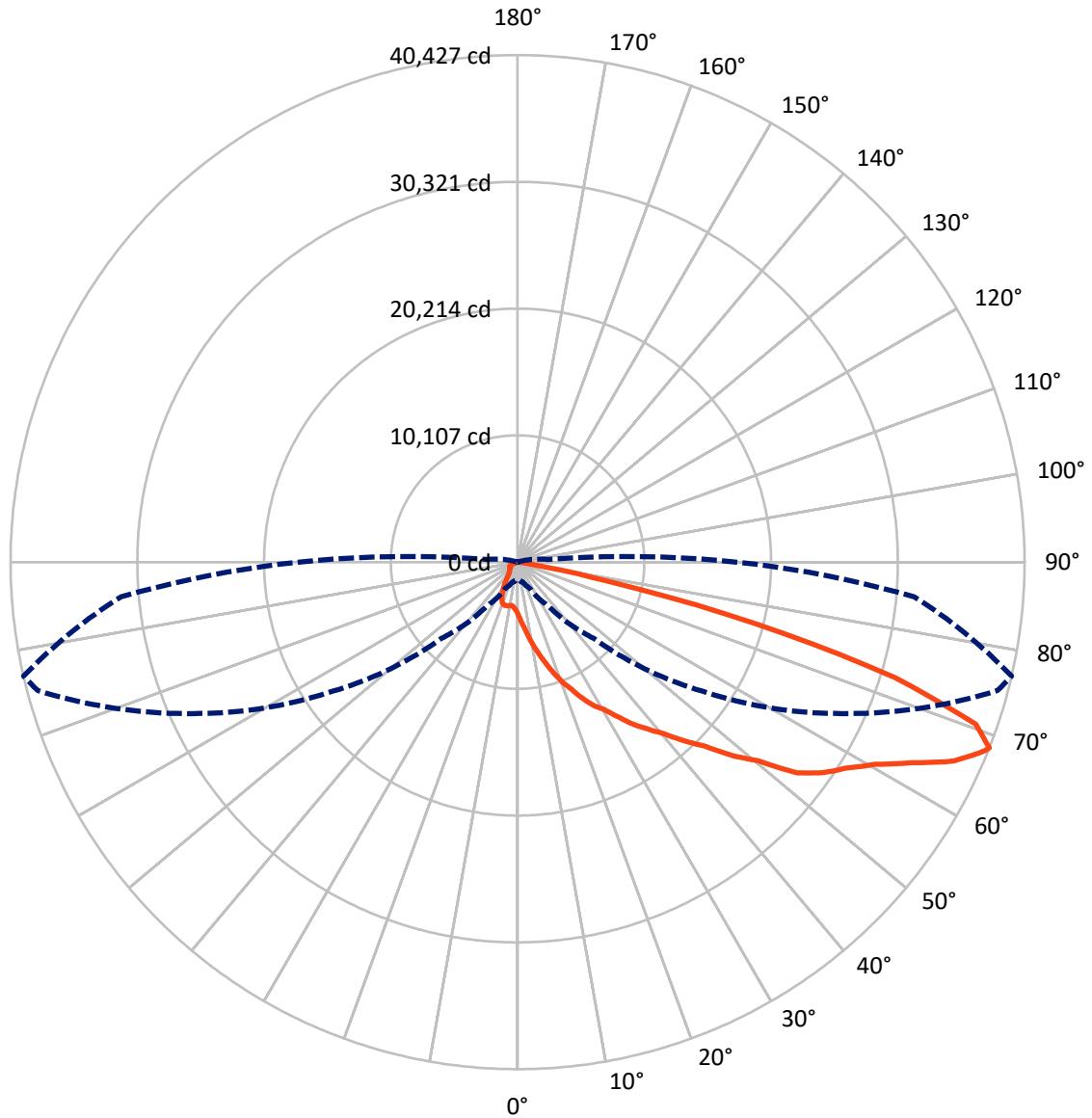
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 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	1960.4	0.0	1960.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	41268.4	0.0	41268.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	43228.8	0.0	43228.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.6	1.1
10°-20°	1783.5	4.1
20°-30°	3456.4	8.0
30°-40°	6025.6	13.9
40°-50°	8825.1	20.4
50°-60°	10368.1	24.0
60°-70°	8754.9	20.3
70°-80°	3393.6	7.9
80°-90°	138.0	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°	43228.8	100.0
0°-180°	43228.8	100.0

Coefficient of Utilization

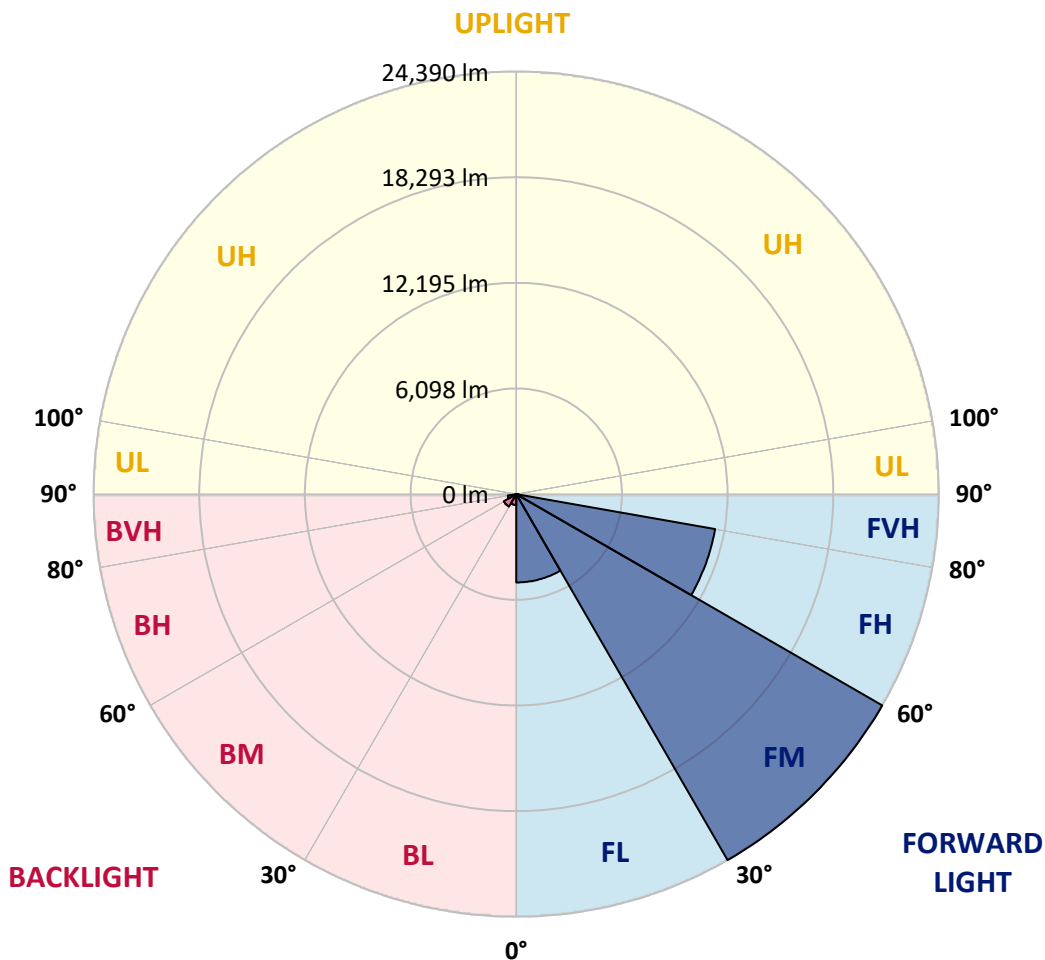


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5097.1	11.8			
FM (30°-60°)	24390.4	56.4			
FH (60°-80°)	11653.6	27.0			G4/12000
FVH (80°-90°)	127.3	0.3			G2/225
BL (0°-30°)	626.3	1.4	B2/1000		
BM (30°-60°)	828.4	1.9	B1/1000		
BH (60°-80°)	495.0	1.1	B1/500		G1/500
BVH (80°-90°)	10.7	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2
2.5°	6289.2	6170.1	6045.0	6009.3	5777.0	5515.0	5270.8	5032.6	4633.5	4639.5	4365.5
5°	8105.7	7956.8	7855.6	7831.8	7468.5	7015.8	6646.6	5973.6	5312.5	5163.6	4663.3
7.5°	9600.6	9553.0	9404.1	9279.0	9011.0	8457.1	8022.3	7057.5	6051.0	5884.2	5026.6
10°	10505.9	10577.3	10642.9	10482.1	10273.6	9874.6	9279.0	8236.7	6890.8	6682.3	5497.1
12.5°	11470.7	11351.6	11393.3	11524.3	11250.3	11161.0	10422.5	9451.7	7873.5	7474.4	6092.7
15°	11720.8	11768.5	11869.7	12250.9	12435.5	12179.4	11542.2	10434.4	8891.9	8338.0	6646.6
17.5°	11887.6	11863.8	11988.8	12560.6	12840.5	13084.7	12685.7	11530.3	9779.3	9285.0	7337.4
20°	12096.0	11965.0	12239.0	12602.3	13251.5	13763.6	13745.8	12632.1	10708.4	10184.3	8022.3
22.5°	12870.3	12769.0	12989.4	13025.1	13477.8	14192.5	14365.2	13531.4	11661.3	11018.1	8760.9
25°	14299.7	14484.3	14222.2	13995.9	14132.9	14603.4	14728.5	14329.4	12620.2	12030.5	9499.4
27.5°	16390.1	16366.3	15848.1	15556.3	15228.8	15169.2	15258.5	15073.9	13376.5	12953.7	10106.8
30°	18635.4	18438.9	17962.4	17259.7	16539.0	16092.3	15967.3	15776.7	14263.9	13650.5	10708.4
32.5°	20422.1	20529.3	19999.3	19082.1	17885.0	17283.5	16681.9	16473.5	15240.7	14698.7	11399.2
35°	22065.9	21923.0	21500.1	20725.9	19653.8	18683.1	17742.1	17295.4	16413.9	15877.9	12161.6
37.5°	23280.9	23459.5	22655.5	21917.0	20850.9	20046.9	19123.8	18147.1	17622.9	16908.3	13090.7
40°	24430.3	24150.4	23608.4	22929.5	21940.8	21327.4	20719.9	19195.3	18909.4	17986.2	14138.9
42.5°	24227.8	24245.7	23947.9	23400.0	22685.3	22333.9	22125.5	20469.8	20076.7	19487.1	15163.2
45°	23400.0	23471.5	23572.7	23304.7	23364.3	23012.9	23572.7	21934.9	21547.8	20922.4	16342.5
47.5°	22488.8	22607.9	22584.1	23072.4	23626.3	23745.4	25145.0	23560.8	23394.0	23048.6	17974.3
50°	20976.0	21023.7	21482.3	22369.7	23126.0	24370.8	26324.2	25335.6	25591.7	24912.7	19915.9
52.5°	18391.2	18564.0	19743.2	21011.7	22536.4	24686.4	27122.3	27974.0	28623.1	27926.3	21780.0
55°	15121.6	15359.8	16521.1	18897.5	21130.9	24210.0	27848.9	29367.6	30683.8	29629.7	22911.6
57.5°	12167.5	12191.3	13233.6	15687.3	19135.7	23274.9	28218.2	30046.6	31815.4	30969.7	24293.3
60°	9273.0	9177.8	10112.8	12239.0	15776.7	20976.0	27295.0	30392.0	33226.9	32738.5	25955.0
62.5°	5967.6	5818.7	6837.2	8909.7	12322.4	17146.5	25448.8	30397.9	35430.5	35245.9	28736.3
65°	2954.0	2852.8	3728.3	5461.4	8528.6	13114.5	22816.3	30284.8	38122.5	38241.6	31446.2
67.5°	1560.4	1596.1	1876.0	2769.4	4919.4	9267.1	18849.8	28956.7	39498.3	40165.3	32101.3
68°	1435.3	1447.2	1667.6	2304.9	4270.2	8594.1	17908.8	28569.5	39605.5	40427.4	31738.0
70°	1167.3	1185.2	1262.6	1447.2	2310.8	5592.4	13817.2	25282.0	37991.5	38741.9	28730.4
72.5°	929.1	982.7	1030.3	1107.8	1357.9	2936.2	8594.1	19701.5	31386.6	31470.0	22363.7
75°	708.7	750.4	845.7	911.2	1060.1	1614.0	4091.6	12012.7	20594.8	19582.4	13174.0
77.5°	547.9	583.7	625.3	714.7	887.4	1089.9	1250.7	5098.1	8748.9	7200.5	3722.3
80°	327.6	351.4	488.4	559.8	774.2	738.5	494.3	1417.5	1774.8	1399.6	679.0
82.5°	190.6	208.4	279.9	428.8	542.0	399.0	291.8	440.7	434.8	381.2	226.3
85°	6.0	11.9	154.8	256.1	190.6	107.2	178.7	184.6	154.8	142.9	101.2
87.5°	0.0	6.0	41.7	35.7	41.7	23.8	35.7	47.6	59.6	53.6	41.7
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°	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2	4139.2
2.5°	4180.9	4049.9	3758.1	3537.7	3299.5	3156.5	3013.6	2924.3	2876.6	2846.8	2870.7
5°	4288.1	4014.1	3543.6	3126.7	2852.8	2668.2	2483.5	2388.2	2298.9	2251.3	2281.0
7.5°	4526.3	4115.4	3335.2	2882.6	2561.0	2275.1	2042.8	1858.2	1751.0	1655.7	1673.6
10°	4818.2	4175.0	3341.2	2739.6	2275.1	1822.4	1494.9	1262.6	1131.6	1048.2	1042.2
12.5°	5116.0	4407.2	3365.0	2596.7	1923.7	1369.8	982.7	810.0	732.6	690.9	690.9
15°	5568.6	4615.7	3305.4	2334.6	1459.1	893.4	673.0	613.4	583.7	547.9	553.9
17.5°	5961.7	4949.2	3275.6	1941.6	1000.6	643.2	559.8	494.3	464.5	428.8	428.8
20°	6491.7	5157.6	3114.8	1500.8	690.9	536.0	452.6	393.1	345.4	315.7	321.6
22.5°	6974.1	5318.5	2829.0	1024.4	530.1	422.9	333.5	274.0	232.3	196.5	202.5
25°	7498.2	5479.3	2412.1	631.3	375.2	262.1	178.7	131.0	89.3	65.5	65.5
27.5°	7873.5	5526.9	1870.1	375.2	226.3	119.1	41.7	6.0	0.0	0.0	0.0
30°	8254.6	5544.8	1292.4	202.5	89.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8689.4	5538.8	810.0	107.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	9022.9	5437.6	387.1	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	9529.1	5288.7	119.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	10106.8	5020.7	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	10625.0	4746.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	11214.6	4407.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	12250.9	4264.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	13602.8	4151.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14436.6	3817.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14871.4	3472.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15514.6	3305.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16467.5	3317.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17956.5	3484.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18778.4	3317.3	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18081.5	2656.2	113.2	29.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	17480.0	2441.8	113.2	29.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14448.6	1590.2	107.2	29.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10523.7	881.4	89.3	23.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	6122.5	440.7	65.5	23.8	11.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1596.1	220.4	53.6	29.8	17.9	6.0	0.0	0.0	0.0	0.0	0.0
80°	315.7	142.9	47.6	35.7	23.8	11.9	0.0	0.0	0.0	0.0	0.0
82.5°	148.9	101.2	47.6	35.7	29.8	17.9	6.0	0.0	0.0	0.0	0.0
85°	77.4	47.6	47.6	35.7	35.7	23.8	11.9	0.0	0.0	0.0	0.0
87.5°	35.7	17.9	17.9	17.9	17.9	11.9	6.0	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)