

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: P481993

Luminaire Tested: **IFLD-S-SA6A-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481993
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

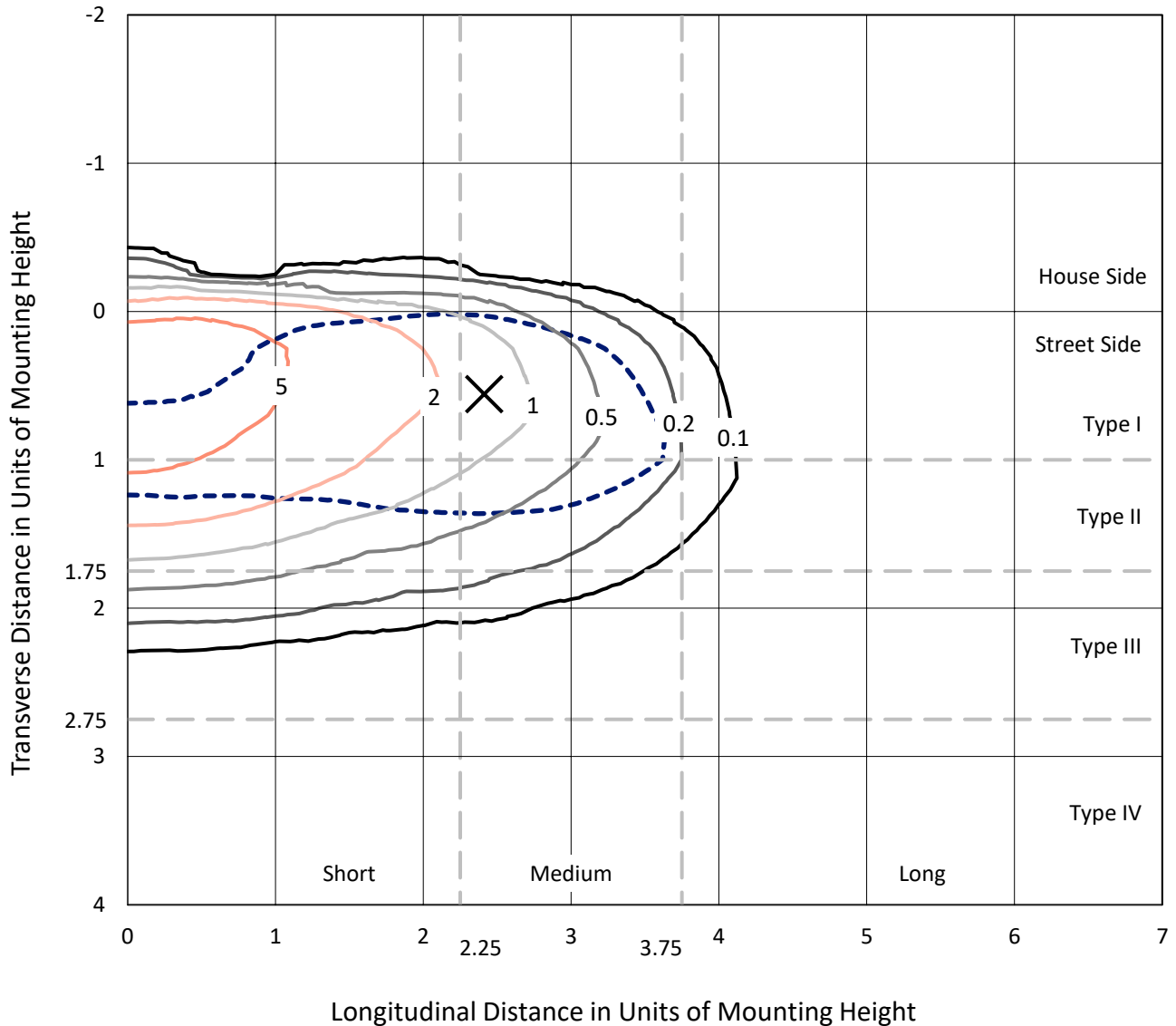
Lumens per Lamp: N/A
Luminaire Lumens: 19322.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6
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

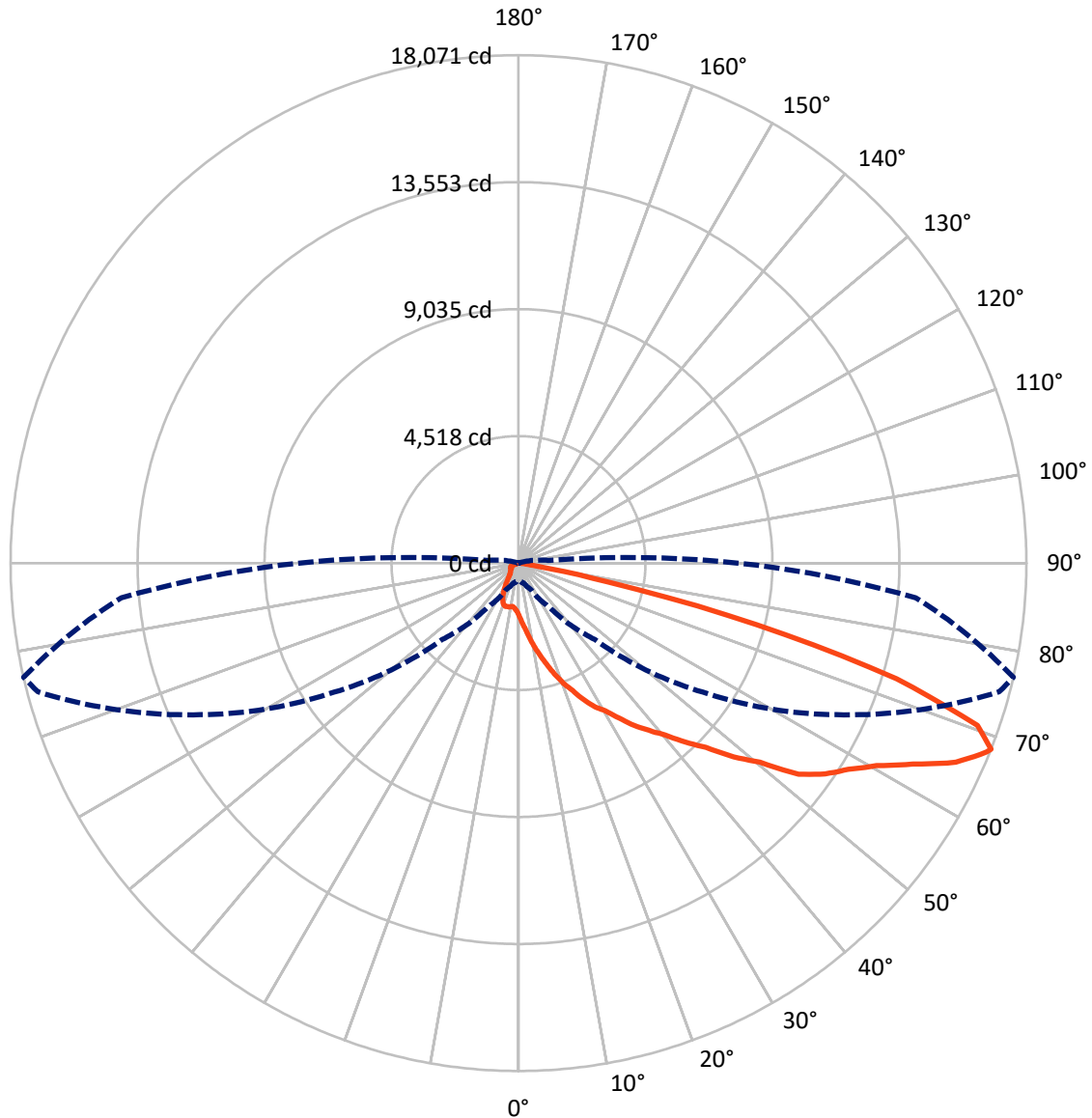
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	876.3	0.0	876.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	18446.4	0.0	18446.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	19322.7	0.0	19322.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	1.1
10°-20°	797.2	4.1
20°-30°	1544.9	8.0
30°-40°	2693.4	13.9
40°-50°	3944.7	20.4
50°-60°	4634.4	24.0
60°-70°	3913.3	20.3
70°-80°	1516.9	7.9
80°-90°	61.7	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°	19322.7	100.0
0°-180°	19322.7	100.0

Coefficient of Utilization

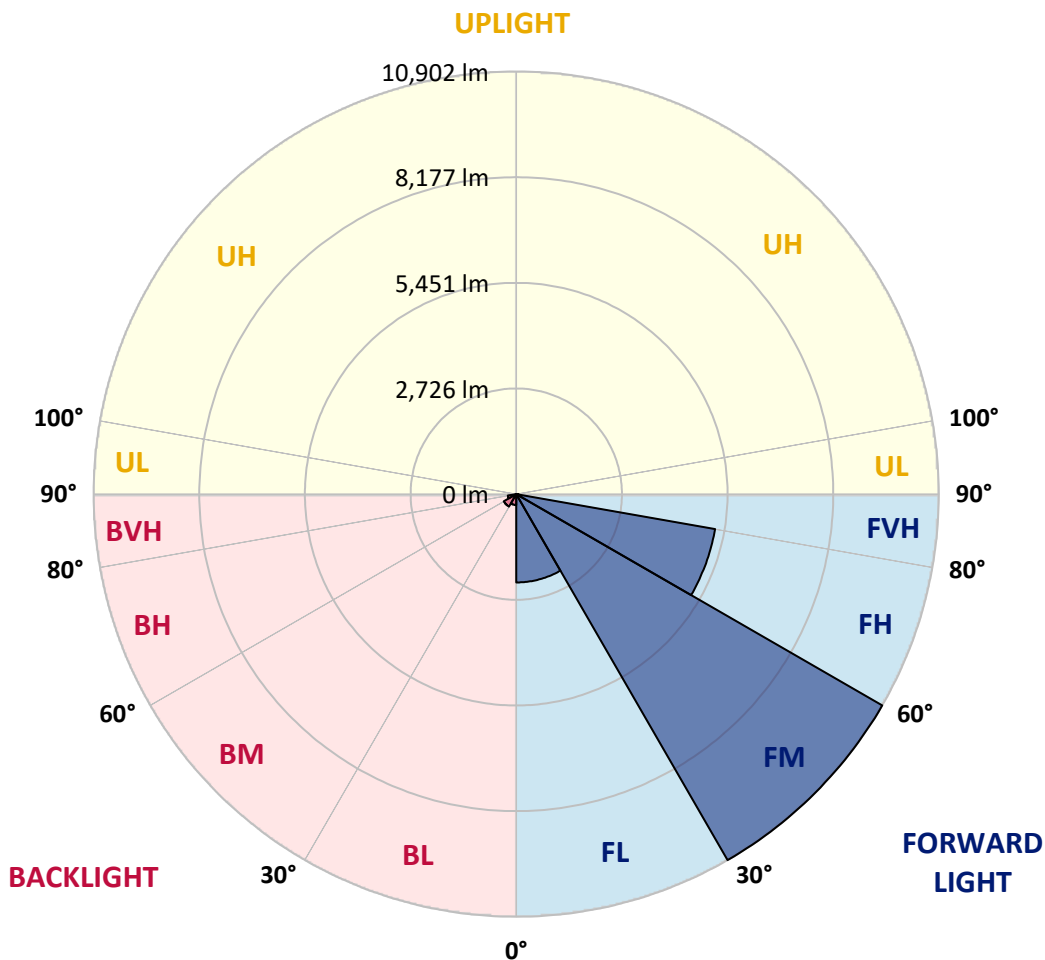


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2278.3	11.8			
FM (30°-60°)	10902.2	56.4			
FH (60°-80°)	5209.0	27.0			G3/7500
FVH (80°-90°)	56.9	0.3			G1/100
BL (0°-30°)	280.0	1.4	B1/500		
BM (30°-60°)	370.3	1.9	B1/1000		
BH (60°-80°)	221.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	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°	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2
2.5°	2811.2	2758.0	2702.1	2686.1	2582.3	2465.1	2356.0	2249.5	2071.1	2073.8	1951.3
5°	3623.1	3556.6	3511.3	3500.7	3338.3	3136.0	2970.9	2670.1	2374.6	2308.1	2084.4
7.5°	4291.3	4270.0	4203.5	4147.6	4027.8	3780.2	3585.9	3154.6	2704.7	2630.2	2246.8
10°	4696.0	4727.9	4757.2	4685.3	4592.2	4413.8	4147.6	3681.7	3080.1	2986.9	2457.1
12.5°	5127.2	5074.0	5092.6	5151.2	5028.7	4988.8	4658.7	4224.8	3519.3	3341.0	2723.3
15°	5239.1	5260.3	5305.6	5476.0	5558.5	5444.0	5159.2	4664.0	3974.5	3727.0	2970.9
17.5°	5313.6	5302.9	5358.8	5614.4	5739.5	5848.7	5670.3	5153.9	4371.2	4150.2	3279.7
20°	5406.8	5348.2	5470.7	5633.0	5923.2	6152.2	6144.2	5646.4	4786.5	4552.2	3585.9
22.5°	5752.8	5707.6	5806.1	5822.1	6024.4	6343.8	6421.0	6048.3	5212.4	4924.9	3916.0
25°	6391.7	6474.3	6357.1	6256.0	6317.2	6527.5	6583.4	6405.1	5641.0	5377.5	4246.1
27.5°	7326.2	7315.5	7083.9	6953.5	6807.0	6780.4	6820.4	6737.8	5979.1	5790.1	4517.6
30°	8329.8	8241.9	8029.0	7714.8	7392.7	7193.0	7137.1	7052.0	6375.8	6101.6	4786.5
32.5°	9128.4	9176.3	8939.4	8529.4	7994.3	7725.5	7456.6	7363.4	6812.4	6570.1	5095.3
35°	9863.2	9799.3	9610.3	9264.2	8785.0	8351.1	7930.5	7730.8	7336.8	7097.2	5436.0
37.5°	10406.2	10486.1	10126.7	9796.6	9320.1	8960.7	8548.1	8111.5	7877.2	7557.8	5851.3
40°	10920.0	10794.9	10552.6	10249.2	9807.2	9533.1	9261.5	8580.0	8452.2	8039.6	6319.9
42.5°	10829.5	10837.5	10704.4	10459.5	10140.0	9982.9	9889.8	9149.7	8974.0	8710.5	6777.8
45°	10459.5	10491.4	10536.7	10416.9	10443.5	10286.4	10536.7	9804.6	9631.5	9352.0	7304.9
47.5°	10052.2	10105.4	10094.8	10313.1	10560.6	10613.9	11239.5	10531.3	10456.8	10302.4	8034.3
50°	9376.0	9397.3	9602.3	9998.9	10337.0	10893.4	11766.6	11324.7	11439.1	11135.6	8902.1
52.5°	8220.6	8297.8	8824.9	9392.0	10073.5	11034.5	12123.3	12504.0	12794.1	12482.7	9735.4
55°	6759.1	6865.6	7384.7	8446.9	9445.2	10821.5	12448.1	13126.9	13715.2	13244.0	10241.2
57.5°	5438.7	5449.4	5915.2	7012.0	8553.4	10403.6	12613.1	13430.4	14221.0	13843.0	10858.8
60°	4144.9	4102.3	4520.3	5470.7	7052.0	9376.0	12200.5	13584.8	14852.0	14633.7	11601.5
62.5°	2667.4	2600.9	3056.1	3982.5	5507.9	7664.2	11375.2	13587.5	15837.0	15754.4	12844.7
65°	1320.4	1275.2	1666.5	2441.2	3812.2	5862.0	10198.6	13536.9	17040.2	17093.5	14056.0
67.5°	697.5	713.4	838.6	1237.9	2198.9	4142.3	8425.6	12943.2	17655.2	17953.3	14348.8
68°	641.6	646.9	745.4	1030.2	1908.7	3841.4	8005.0	12770.2	17703.1	18070.5	14186.4
70°	521.8	529.8	564.4	646.9	1032.9	2499.7	6176.1	11300.7	16981.7	17317.1	12842.1
72.5°	415.3	439.2	460.5	495.2	607.0	1312.4	3841.4	8806.3	14029.4	14066.6	9996.3
75°	316.8	335.4	378.0	407.3	473.9	721.4	1828.9	5369.5	9205.6	8753.1	5888.6
77.5°	244.9	260.9	279.5	319.5	396.7	487.2	559.0	2278.8	3910.7	3218.5	1663.8
80°	146.4	157.1	218.3	250.2	346.1	330.1	221.0	633.6	793.3	625.6	303.5
82.5°	85.2	93.2	125.1	191.7	242.3	178.4	130.4	197.0	194.3	170.4	101.2
85°	2.7	5.3	69.2	114.5	85.2	47.9	79.9	82.5	69.2	63.9	45.3
87.5°	0.0	2.7	18.6	16.0	18.6	10.6	16.0	21.3	26.6	24.0	18.6
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°	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2	1850.2
2.5°	1868.8	1810.2	1679.8	1581.3	1474.8	1410.9	1347.0	1307.1	1285.8	1272.5	1283.1
5°	1916.7	1794.3	1584.0	1397.6	1275.2	1192.6	1110.1	1067.5	1027.6	1006.3	1019.6
7.5°	2023.2	1839.5	1490.8	1288.5	1144.7	1016.9	913.1	830.6	782.7	740.1	748.1
10°	2153.7	1866.1	1493.4	1224.6	1016.9	814.6	668.2	564.4	505.8	468.5	465.9
12.5°	2286.8	1970.0	1504.1	1160.7	859.9	612.3	439.2	362.0	327.4	308.8	308.8
15°	2489.1	2063.1	1477.5	1043.6	652.2	399.3	300.8	274.2	260.9	244.9	247.6
17.5°	2664.8	2212.2	1464.2	867.9	447.2	287.5	250.2	221.0	207.6	191.7	191.7
20°	2901.7	2305.4	1392.3	670.9	308.8	239.6	202.3	175.7	154.4	141.1	143.8
22.5°	3117.3	2377.3	1264.5	457.9	236.9	189.0	149.1	122.5	103.8	87.8	90.5
25°	3351.6	2449.2	1078.2	282.2	167.7	117.1	79.9	58.6	39.9	29.3	29.3
27.5°	3519.3	2470.4	835.9	167.7	101.2	53.2	18.6	2.7	0.0	0.0	0.0
30°	3689.7	2478.4	577.7	90.5	39.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3884.0	2475.8	362.0	47.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	4033.1	2430.5	173.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4259.4	2364.0	53.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4517.6	2244.2	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4749.2	2121.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5012.8	1970.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5476.0	1906.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6080.3	1855.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6453.0	1706.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6647.3	1552.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6934.8	1477.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7360.8	1482.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8026.3	1557.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8393.7	1482.8	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8082.2	1187.3	50.6	13.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	7813.3	1091.5	50.6	13.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	6458.3	710.8	47.9	13.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4704.0	394.0	39.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2736.7	197.0	29.3	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	713.4	98.5	24.0	13.3	8.0	2.7	0.0	0.0	0.0	0.0	0.0
80°	141.1	63.9	21.3	16.0	10.6	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	66.6	45.3	21.3	16.0	13.3	8.0	2.7	0.0	0.0	0.0	0.0
85°	34.6	21.3	21.3	16.0	16.0	10.6	5.3	0.0	0.0	0.0	0.0
87.5°	16.0	8.0	8.0	8.0	8.0	5.3	2.7	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)