

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: P482032

Luminaire Tested: **IFLD-S-SA6A-735-U-T2R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482032
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

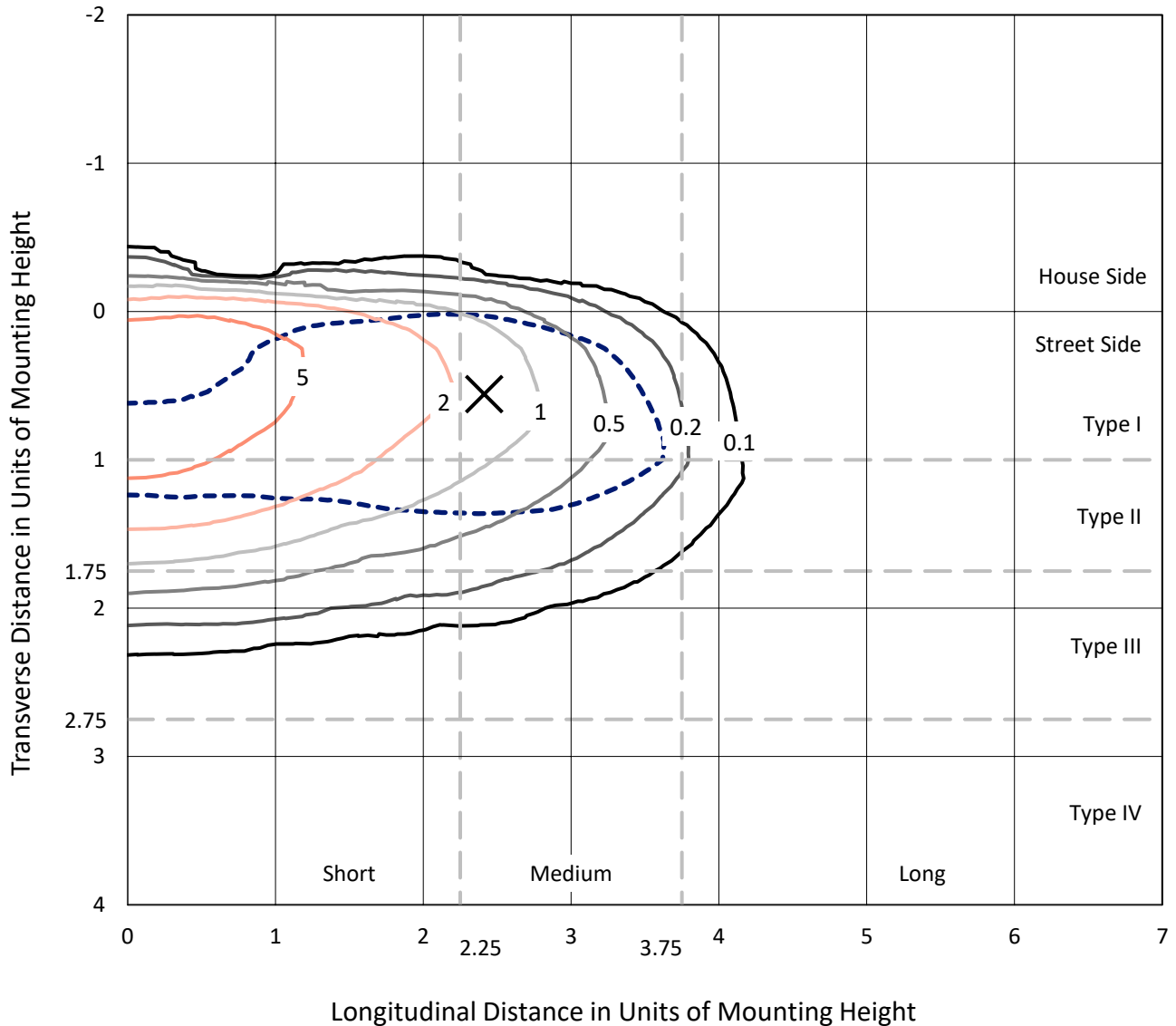
Lumens per Lamp: N/A
Luminaire Lumens: 20929 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (A_{in}): 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

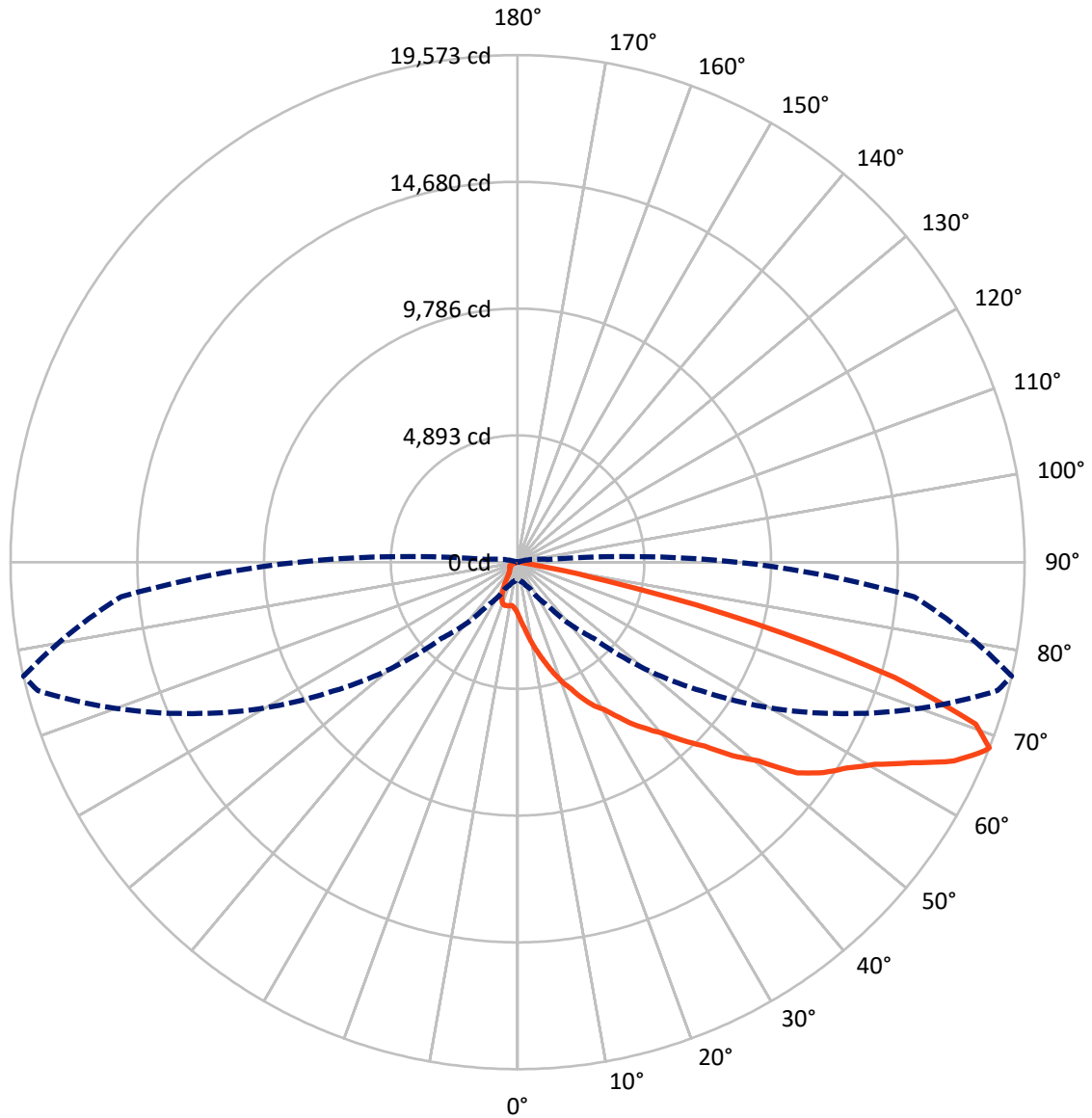
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	949.1	0.0	949.1
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	19979.9	0.0	19979.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	20929.0	0.0	20929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	1.1
10°-20°	863.4	4.1
20°-30°	1673.4	8.0
30°-40°	2917.3	13.9
40°-50°	4272.6	20.4
50°-60°	5019.7	24.0
60°-70°	4238.7	20.3
70°-80°	1643.0	7.9
80°-90°	66.8	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°	20929.0	100.0
0°-180°	20929.0	100.0

Coefficient of Utilization



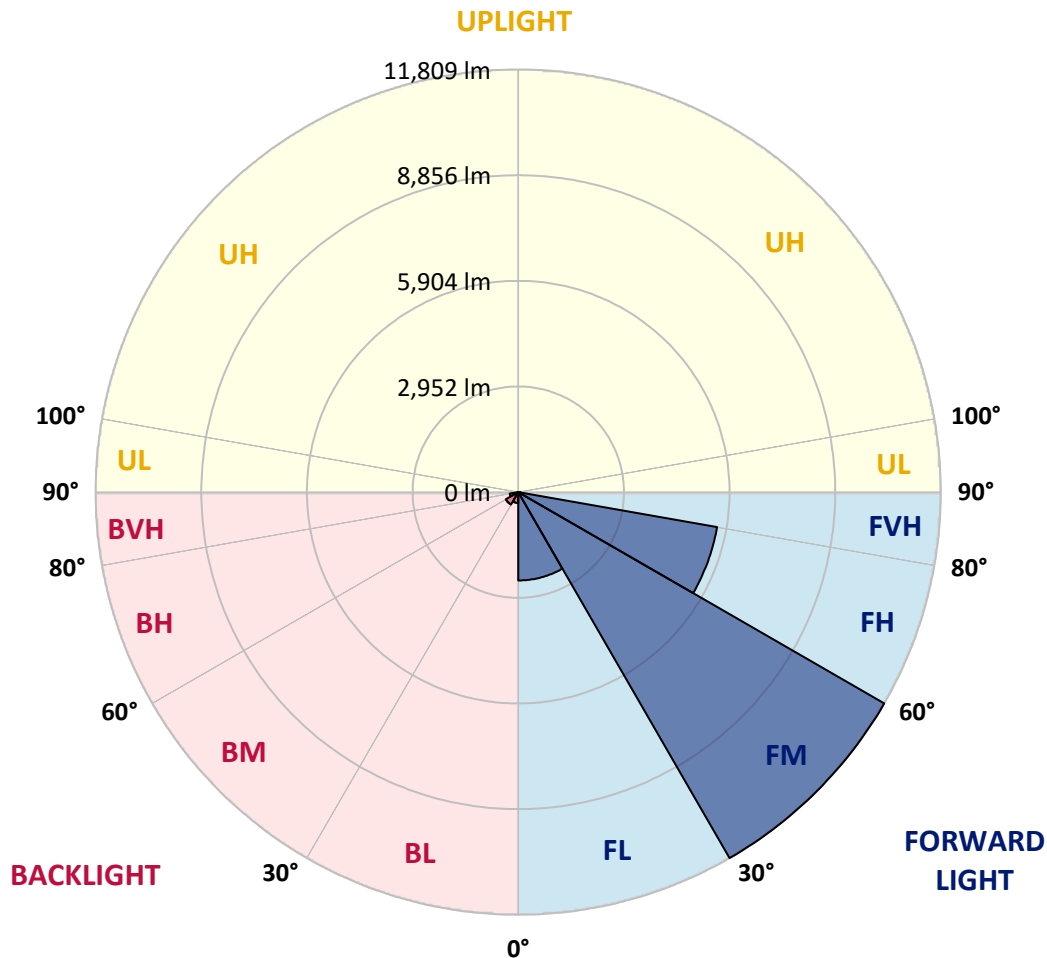
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.7	11.8			
FM (30°-60°)	11808.5	56.4			
FH (60°-80°)	5642.0	27.0			G3/7500
FVH (80°-90°)	61.6	0.3			G1/100
BL (0°-30°)	303.2	1.4	B1/500		
BM (30°-60°)	401.0	1.9	B1/1000		
BH (60°-80°)	239.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.2	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°	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0
2.5°	3044.9	2987.2	2926.7	2909.4	2796.9	2670.1	2551.8	2436.5	2243.3	2246.2	2113.6
5°	3924.3	3852.3	3803.2	3791.7	3615.8	3396.7	3217.9	2892.1	2572.0	2499.9	2257.7
7.5°	4648.1	4625.0	4552.9	4492.4	4362.6	4094.5	3884.0	3416.9	2929.6	2848.8	2433.6
10°	5086.4	5121.0	5152.7	5074.8	4973.9	4780.7	4492.4	3987.8	3336.1	3235.2	2661.4
12.5°	5553.5	5495.8	5516.0	5579.4	5446.8	5403.5	5046.0	4576.0	3811.9	3618.7	2949.7
15°	5674.6	5697.7	5746.7	5931.2	6020.6	5896.6	5588.1	5051.8	4305.0	4036.8	3217.9
17.5°	5755.3	5743.8	5804.3	6081.1	6216.7	6334.9	6141.7	5582.3	4734.6	4495.3	3552.4
20°	5856.2	5792.8	5925.4	6101.3	6415.6	6663.6	6655.0	6115.7	5184.4	4930.7	3884.0
22.5°	6231.1	6182.1	6288.8	6306.1	6525.2	6871.2	6954.8	6551.1	5645.8	5334.3	4241.5
25°	6923.1	7012.5	6885.6	6776.1	6842.4	7070.2	7130.7	6937.5	6110.0	5824.5	4599.1
27.5°	7935.2	7923.7	7672.8	7531.5	7372.9	7344.1	7387.3	7298.0	6476.2	6271.5	4893.2
30°	9022.2	8927.1	8696.4	8356.2	8007.3	7791.0	7730.5	7638.2	6905.8	6608.8	5184.4
32.5°	9887.3	9939.2	9682.5	9238.5	8658.9	8367.7	8076.5	7975.6	7378.7	7116.3	5518.9
35°	10683.1	10613.9	10409.2	10034.3	9515.3	9045.3	8589.7	8373.5	7946.7	7687.2	5888.0
37.5°	11271.3	11357.8	10968.6	10611.0	10094.9	9705.6	9258.7	8785.8	8532.1	8186.0	6337.8
40°	11827.8	11692.3	11429.9	11101.2	10622.5	10325.6	10031.4	9293.3	9154.9	8708.0	6845.3
42.5°	11729.8	11738.4	11594.3	11329.0	10983.0	10812.9	10711.9	9910.3	9720.0	9434.6	7341.2
45°	11329.0	11363.6	11412.6	11282.9	11311.7	11141.6	11412.6	10619.7	10432.2	10129.5	7912.1
47.5°	10887.8	10945.5	10934.0	11170.4	11438.6	11496.2	12173.8	11406.8	11326.1	11158.9	8702.2
50°	10155.4	10178.5	10400.5	10830.2	11196.3	11799.0	12744.7	12266.1	12390.1	12061.4	9642.2
52.5°	8904.0	8987.6	9558.6	10172.7	10910.9	11951.8	13131.1	13543.5	13857.8	13520.4	10544.7
55°	7321.0	7436.4	7998.6	9149.1	10230.4	11721.1	13482.9	14218.2	14855.4	14345.1	11092.5
57.5°	5890.8	5902.4	6407.0	7594.9	9264.5	11268.4	13661.7	14546.9	15403.3	14993.8	11761.5
60°	4489.5	4443.4	4896.1	5925.4	7638.2	10155.4	13214.7	14714.1	16086.6	15850.2	12566.0
62.5°	2889.2	2817.1	3310.2	4313.6	5965.8	8301.4	12320.9	14717.0	17153.5	17064.1	13912.5
65°	1430.2	1381.2	1805.0	2644.1	4129.1	6349.3	11046.4	14662.2	18456.8	18514.5	15224.5
67.5°	755.5	772.8	908.3	1340.8	2381.7	4486.6	9126.0	14019.2	19122.9	19445.8	15541.7
68°	694.9	700.7	807.4	1115.9	2067.4	4160.8	8670.5	13831.8	19174.8	19572.7	15365.8
70°	565.2	573.8	611.3	700.7	1118.8	2707.5	6689.6	12240.1	18393.4	18756.7	13909.7
72.5°	449.8	475.8	498.8	536.3	657.4	1421.5	4160.8	9538.4	15195.7	15236.0	10827.3
75°	343.1	363.3	409.4	441.2	513.3	781.4	1980.9	5815.9	9970.9	9480.7	6378.1
77.5°	265.3	282.6	302.8	346.0	429.6	527.7	605.5	2468.2	4235.8	3486.1	1802.1
80°	158.6	170.1	236.4	271.0	374.8	357.5	239.3	686.3	859.3	677.6	328.7
82.5°	92.3	100.9	135.5	207.6	262.4	193.2	141.3	213.4	210.5	184.5	109.6
85°	2.9	5.8	75.0	124.0	92.3	51.9	86.5	89.4	75.0	69.2	49.0
87.5°	0.0	2.9	20.2	17.3	20.2	11.5	17.3	23.1	28.8	26.0	20.2
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°	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0	2004.0
2.5°	2024.2	1960.7	1819.4	1712.8	1597.4	1528.2	1459.0	1415.8	1392.7	1378.3	1389.8
5°	2076.1	1943.4	1715.6	1513.8	1381.2	1291.8	1202.4	1156.3	1113.0	1089.9	1104.4
7.5°	2191.4	1992.4	1614.7	1395.6	1239.9	1101.5	989.0	899.6	847.7	801.6	810.2
10°	2332.7	2021.3	1617.6	1326.4	1101.5	882.3	723.7	611.3	547.9	507.5	504.6
12.5°	2476.9	2133.7	1629.1	1257.2	931.3	663.2	475.8	392.1	354.7	334.5	334.5
15°	2696.0	2234.7	1600.3	1130.3	706.4	432.5	325.8	297.0	282.6	265.3	268.2
17.5°	2886.3	2396.1	1585.9	940.0	484.4	311.4	271.0	239.3	224.9	207.6	207.6
20°	3142.9	2497.0	1508.0	726.6	334.5	259.5	219.1	190.3	167.2	152.8	155.7
22.5°	3376.5	2574.9	1369.6	495.9	256.6	204.7	161.5	132.6	112.5	95.2	98.0
25°	3630.2	2652.8	1167.8	305.6	181.7	126.9	86.5	63.4	43.3	31.7	31.7
27.5°	3811.9	2675.8	905.4	181.7	109.6	57.7	20.2	2.9	0.0	0.0	0.0
30°	3996.4	2684.5	625.7	98.0	43.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4206.9	2681.6	392.1	51.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	4368.4	2632.6	187.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4613.5	2560.5	57.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4893.2	2430.7	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5144.0	2298.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5429.5	2133.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5931.2	2064.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6585.7	2009.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6989.4	1848.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7199.9	1681.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7511.3	1600.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7972.7	1606.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8693.5	1686.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9091.4	1606.1	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8754.1	1286.0	54.8	14.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	8462.9	1182.2	54.8	14.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	6995.2	769.9	51.9	14.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5095.0	426.7	43.3	11.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	2964.2	213.4	31.7	11.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	772.8	106.7	26.0	14.4	8.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	152.8	69.2	23.1	17.3	11.5	5.8	0.0	0.0	0.0	0.0	0.0
82.5°	72.1	49.0	23.1	17.3	14.4	8.7	2.9	0.0	0.0	0.0	0.0
85°	37.5	23.1	23.1	17.3	17.3	11.5	5.8	0.0	0.0	0.0	0.0
87.5°	17.3	8.7	8.7	8.7	8.7	5.8	2.9	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)