

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: P482071

Luminaire Tested: **IFLD-S-SA6A-740-U-T2R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482071
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R
distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

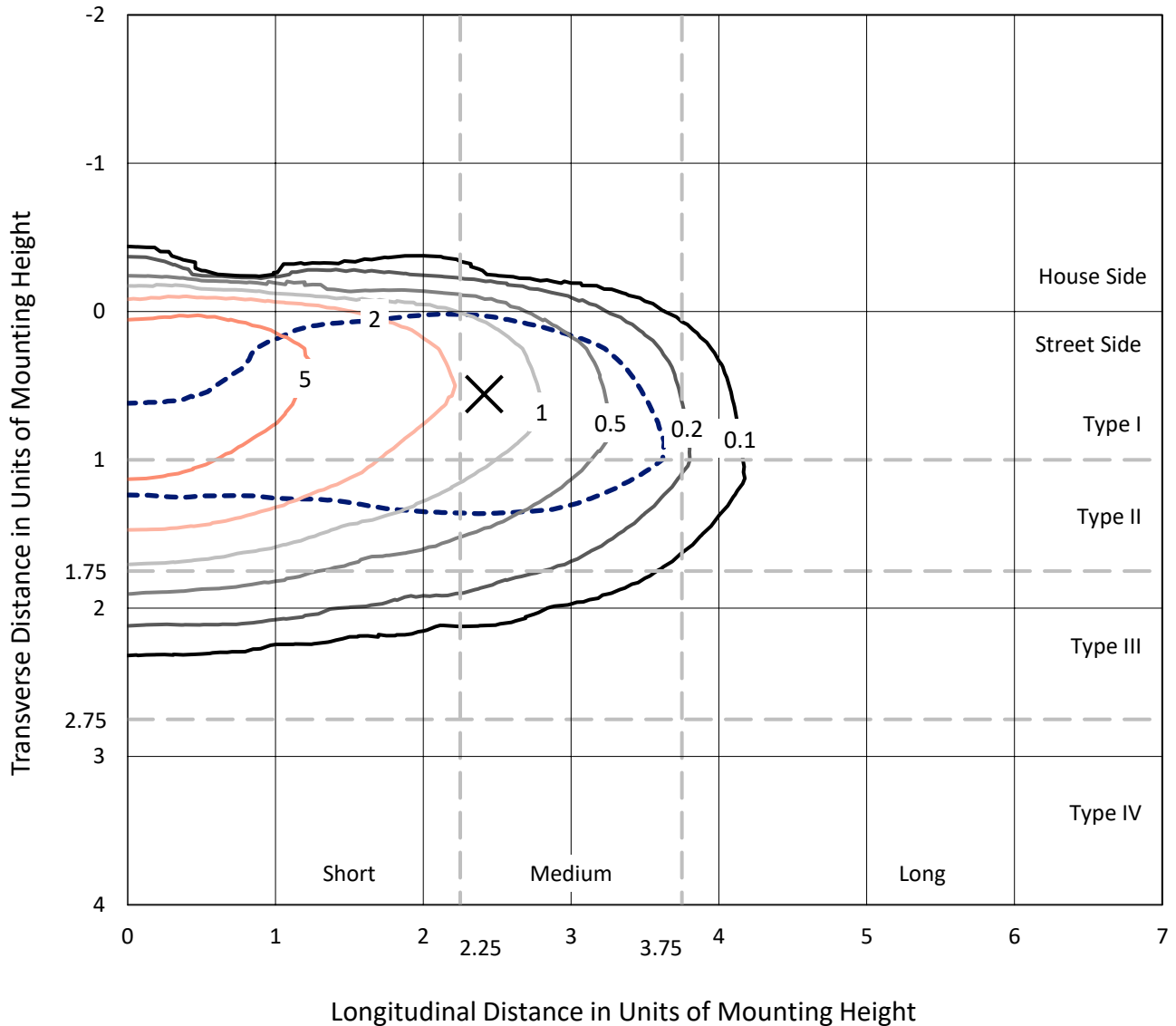
Lumens per Lamp: N/A
Luminaire Lumens: 21219.7 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

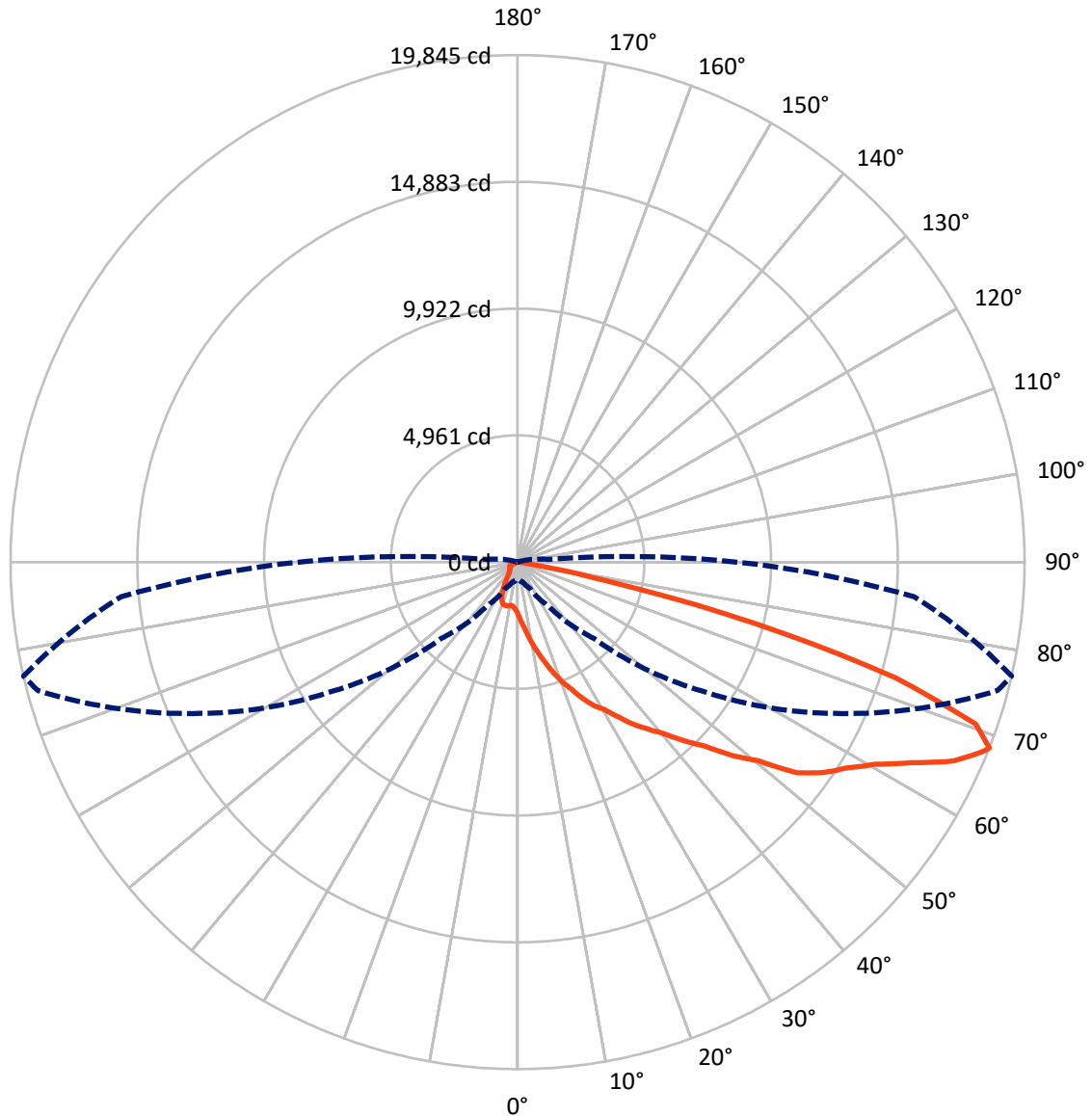
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	962.3	0.0	962.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	20257.4	0.0	20257.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	21219.7	0.0	21219.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.4	1.1
10°-20°	875.4	4.1
20°-30°	1696.6	8.0
30°-40°	2957.8	13.9
40°-50°	4332.0	20.4
50°-60°	5089.4	24.0
60°-70°	4297.5	20.3
70°-80°	1665.8	7.9
80°-90°	67.7	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°	21219.7	100.0
0°-180°	21219.7	100.0

Coefficient of Utilization



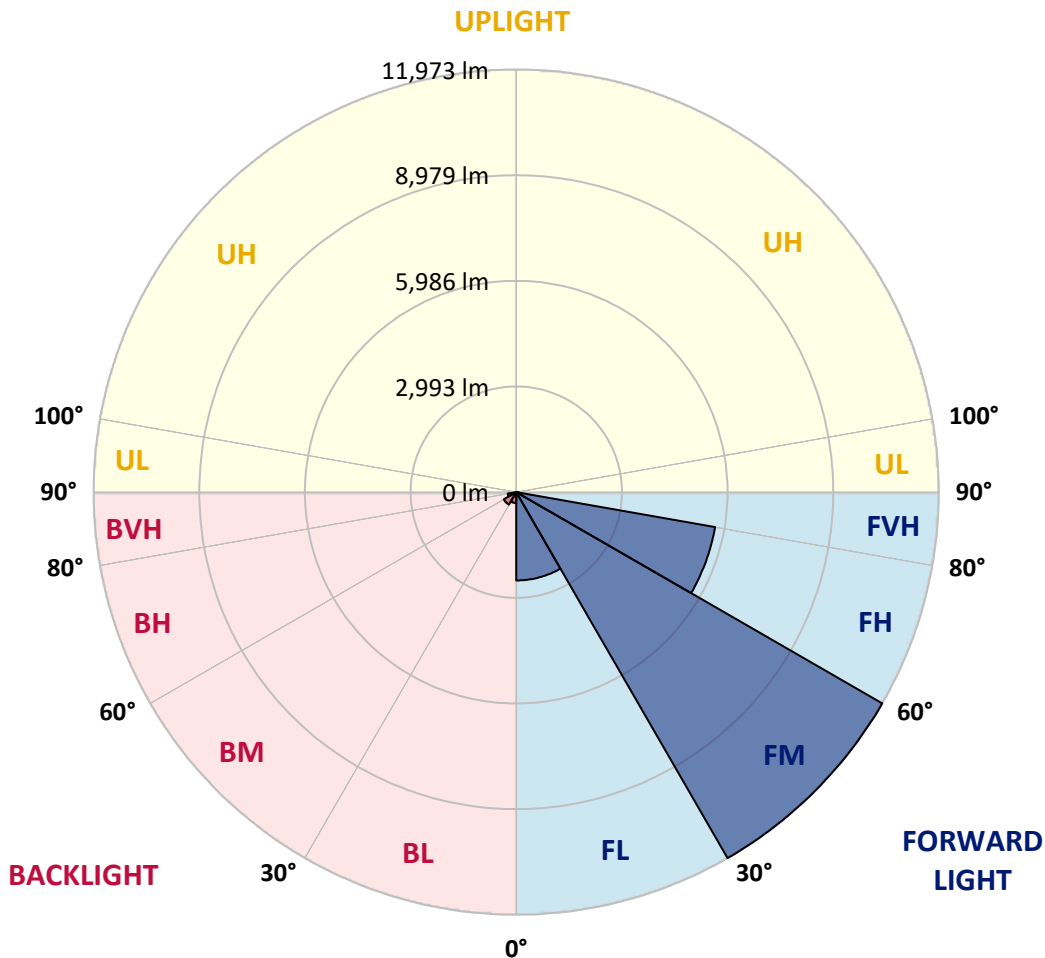
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2502.0	11.8			
FM	(30°-60°)	11972.5	56.4			
FH	(60°-80°)	5720.4	27.0			G3/7500
FVH	(80°-90°)	62.5	0.3			G1/100
BL	(0°-30°)	307.5	1.4	B1/500		
BM	(30°-60°)	406.6	1.9	B1/1000		
BH	(60°-80°)	243.0	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°	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8
2.5°	3087.2	3028.7	2967.3	2949.8	2835.8	2707.1	2587.3	2470.3	2274.5	2277.4	2142.9
5°	3978.9	3905.8	3856.1	3844.4	3666.0	3443.9	3262.6	2932.2	2607.7	2534.7	2289.1
7.5°	4712.6	4689.3	4616.2	4554.8	4423.2	4151.3	3937.9	3464.3	2970.3	2888.4	2467.4
10°	5157.0	5192.1	5224.3	5145.3	5043.0	4847.1	4554.8	4043.2	3382.5	3280.1	2698.4
12.5°	5630.6	5572.2	5592.6	5656.9	5522.5	5478.6	5116.1	4639.6	3864.8	3669.0	2990.7
15°	5753.4	5776.8	5826.5	6013.6	6104.2	5978.5	5665.7	5121.9	4364.8	4092.9	3262.6
17.5°	5835.3	5823.6	5885.0	6165.6	6303.0	6422.9	6227.0	5659.9	4800.4	4557.7	3601.7
20°	5937.6	5873.3	6007.7	6186.1	6504.7	6756.2	6747.4	6200.7	5256.4	4999.1	3937.9
22.5°	6317.6	6267.9	6376.1	6393.6	6615.8	6966.7	7051.4	6642.1	5724.2	5408.4	4300.4
25°	7019.3	7109.9	6981.3	6870.2	6937.4	7168.4	7229.8	7033.9	6194.9	5905.4	4662.9
27.5°	8045.4	8033.7	7779.4	7636.1	7475.3	7446.1	7490.0	7399.3	6566.1	6358.6	4961.1
30°	9147.6	9051.1	8817.2	8472.2	8118.5	7899.2	7837.8	7744.3	7001.7	6700.6	5256.4
32.5°	10024.6	10077.2	9817.0	9366.8	8779.2	8483.9	8188.7	8086.3	7481.2	7215.1	5595.5
35°	10831.5	10761.3	10553.8	10173.7	9647.5	9171.0	8709.0	8489.8	8057.1	7794.0	5969.7
37.5°	11427.9	11515.6	11120.9	10758.4	10235.1	9840.4	9387.3	8907.8	8650.6	8299.8	6425.8
40°	11992.1	11854.7	11588.7	11255.4	10770.1	10469.0	10170.8	9422.4	9282.0	8828.9	6940.3
42.5°	11892.7	11901.5	11755.3	11486.3	11135.5	10963.0	10860.7	10048.0	9855.0	9565.6	7443.2
45°	11486.3	11521.4	11571.1	11439.6	11468.8	11296.3	11571.1	10767.2	10577.1	10270.2	8022.0
47.5°	11039.1	11097.5	11085.8	11325.6	11597.4	11655.9	12342.9	11565.3	11483.4	11313.9	8823.1
50°	10296.5	10319.9	10545.0	10980.6	11351.9	11962.9	12921.8	12436.5	12562.2	12228.9	9776.1
52.5°	9027.7	9112.5	9691.3	10314.0	11062.4	12117.8	13313.5	13731.6	14050.2	13708.2	10691.2
55°	7422.7	7539.7	8109.7	9276.2	10372.5	11883.9	13670.2	14415.7	15061.8	14544.3	11246.6
57.5°	5972.7	5984.4	6496.0	7700.4	9393.1	11425.0	13851.4	14749.0	15617.2	15202.1	11924.9
60°	4551.9	4505.1	4964.1	6007.7	7744.3	10296.5	13398.3	14918.5	16310.1	16070.4	12740.5
62.5°	2929.3	2856.2	3356.2	4373.5	6048.7	8416.7	12492.0	14921.4	17391.8	17301.1	14105.8
65°	1450.0	1400.3	1830.1	2680.8	4186.4	6437.5	11199.8	14865.9	18713.2	18771.7	15436.0
67.5°	766.0	783.5	920.9	1359.4	2414.8	4548.9	9252.8	14214.0	19388.5	19715.9	15757.6
68°	704.6	710.4	818.6	1131.4	2096.1	4218.6	8790.9	14023.9	19441.1	19844.6	15579.2
70°	573.0	581.8	619.8	710.4	1134.3	2745.1	6782.5	12410.2	18648.9	19017.2	14102.9
72.5°	456.1	482.4	505.8	543.8	666.6	1441.3	4218.6	9670.9	15406.7	15447.7	10977.7
75°	347.9	368.4	415.1	447.3	520.4	792.3	2008.4	5896.7	10109.4	9612.4	6466.7
77.5°	269.0	286.5	307.0	350.8	435.6	535.0	613.9	2502.5	4294.6	3534.5	1827.2
80°	160.8	172.5	239.7	274.8	380.1	362.5	242.6	695.8	871.2	687.0	333.3
82.5°	93.6	102.3	137.4	210.5	266.0	195.9	143.3	216.3	213.4	187.1	111.1
85°	2.9	5.8	76.0	125.7	93.6	52.6	87.7	90.6	76.0	70.2	49.7
87.5°	0.0	2.9	20.5	17.5	20.5	11.7	17.5	23.4	29.2	26.3	20.5
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°	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8	2031.8
2.5°	2052.3	1988.0	1844.7	1736.5	1619.6	1549.4	1479.3	1435.4	1412.0	1397.4	1409.1
5°	2104.9	1970.4	1739.5	1534.8	1400.3	1309.7	1219.1	1172.3	1128.5	1105.1	1119.7
7.5°	2221.8	2020.1	1637.1	1415.0	1257.1	1116.8	1002.8	912.1	859.5	812.7	821.5
10°	2365.1	2049.4	1640.1	1344.8	1116.8	894.6	733.8	619.8	555.5	514.5	511.6
12.5°	2511.3	2163.4	1651.8	1274.6	944.3	672.4	482.4	397.6	359.6	339.1	339.1
15°	2733.5	2265.7	1622.5	1146.0	716.3	438.5	330.4	301.1	286.5	269.0	271.9
17.5°	2926.4	2429.4	1607.9	953.1	491.1	315.7	274.8	242.6	228.0	210.5	210.5
20°	3186.6	2531.7	1529.0	736.7	339.1	263.1	222.2	192.9	169.6	154.9	157.9
22.5°	3423.4	2610.7	1388.7	502.8	260.2	207.6	163.7	134.5	114.0	96.5	99.4
25°	3680.7	2689.6	1184.0	309.9	184.2	128.6	87.7	64.3	43.9	32.2	32.2
27.5°	3864.8	2713.0	918.0	184.2	111.1	58.5	20.5	2.9	0.0	0.0	0.0
30°	4051.9	2721.8	634.4	99.4	43.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4265.4	2718.8	397.6	52.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	4429.1	2669.1	190.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4677.6	2596.0	58.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4961.1	2464.5	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5215.5	2330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5504.9	2163.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6013.6	2093.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6677.2	2037.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7086.5	1873.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7299.9	1704.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7615.7	1622.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8083.4	1628.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8814.3	1710.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9217.7	1628.4	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8875.7	1303.9	55.5	14.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	8580.4	1198.6	55.5	14.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	7092.4	780.6	52.6	14.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5165.8	432.7	43.9	11.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	3005.3	216.3	32.2	11.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	783.5	108.2	26.3	14.6	8.8	2.9	0.0	0.0	0.0	0.0	0.0
80°	154.9	70.2	23.4	17.5	11.7	5.8	0.0	0.0	0.0	0.0	0.0
82.5°	73.1	49.7	23.4	17.5	14.6	8.8	2.9	0.0	0.0	0.0	0.0
85°	38.0	23.4	23.4	17.5	17.5	11.7	5.8	0.0	0.0	0.0	0.0
87.5°	17.5	8.8	8.8	8.8	8.8	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)