

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: P481956

Luminaire Tested: **IFLD-S-SA6C-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481956
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

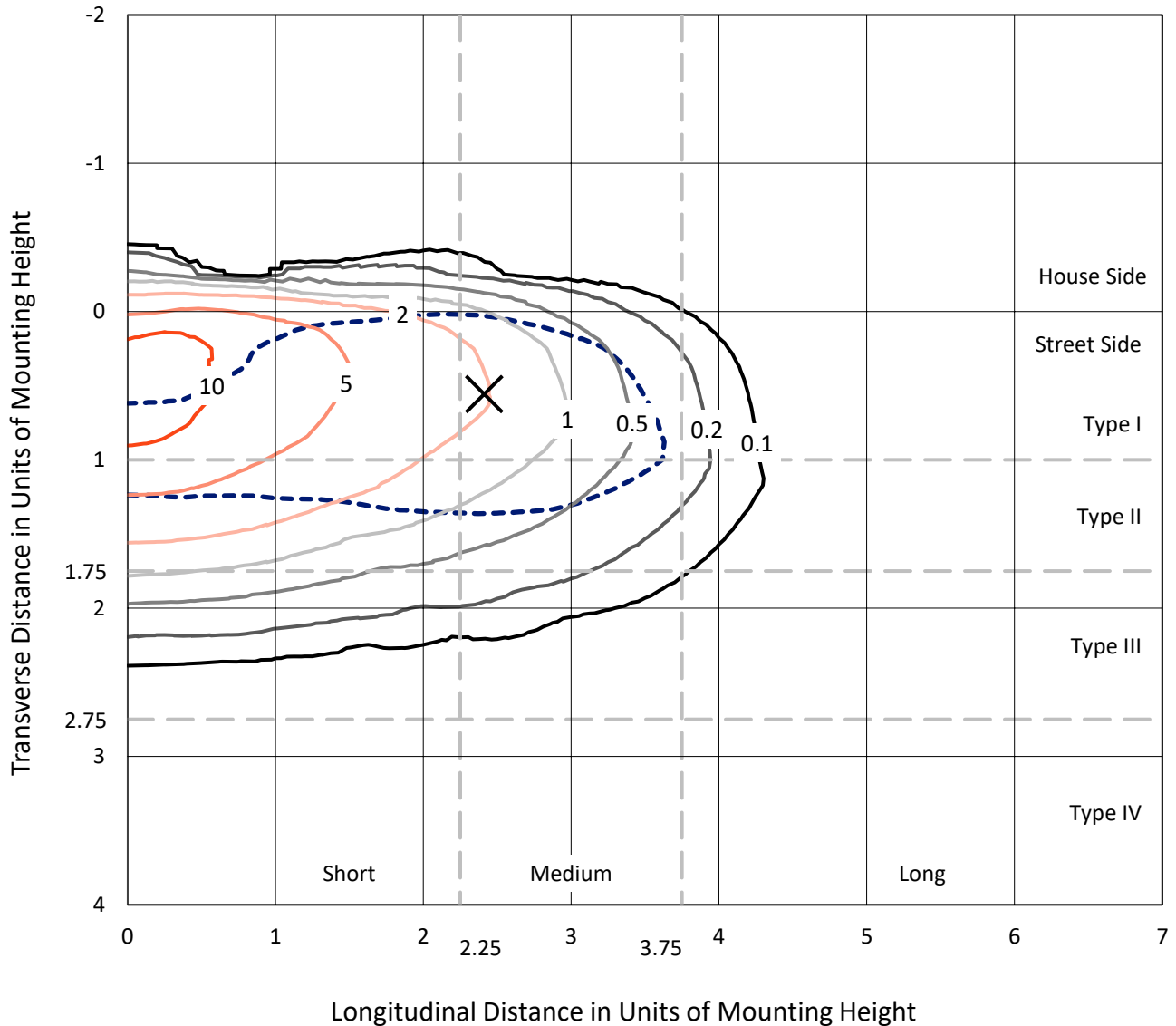
Lumens per Lamp: N/A
Luminaire Lumens: 27320.6 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 321.5
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

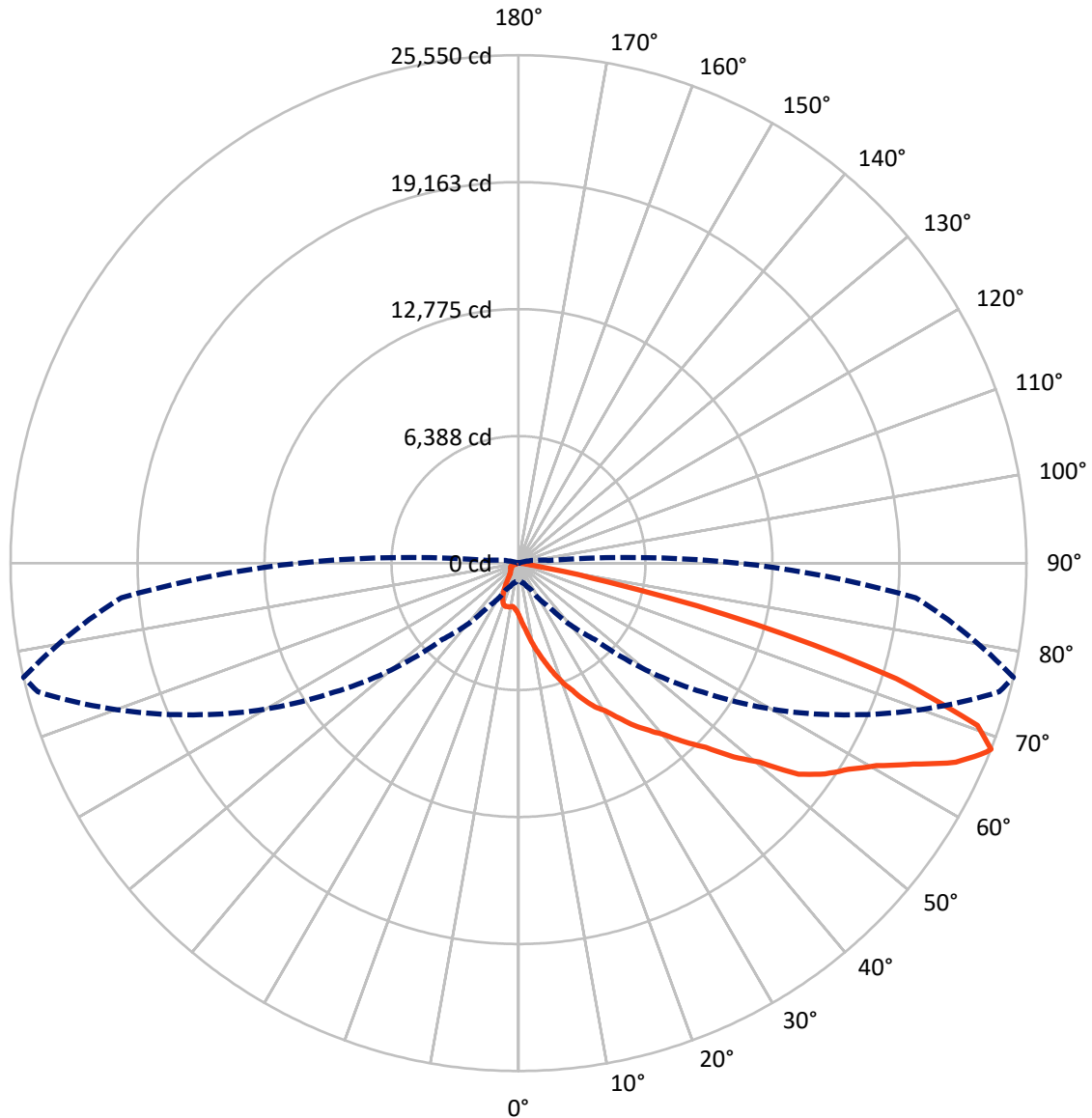
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	1239.0	0.0	1239.0
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	26081.6	0.0	26081.6
	% Fixture	95.5	0.0	95.5
Total	Lumens	27320.6	0.0	27320.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.6	1.1
10°-20°	1127.1	4.1
20°-30°	2184.4	8.0
30°-40°	3808.2	13.9
40°-50°	5577.5	20.4
50°-60°	6552.6	24.0
60°-70°	5533.1	20.3
70°-80°	2144.8	7.9
80°-90°	87.2	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°	27320.6	100.0
0°-180°	27320.6	100.0

Coefficient of Utilization



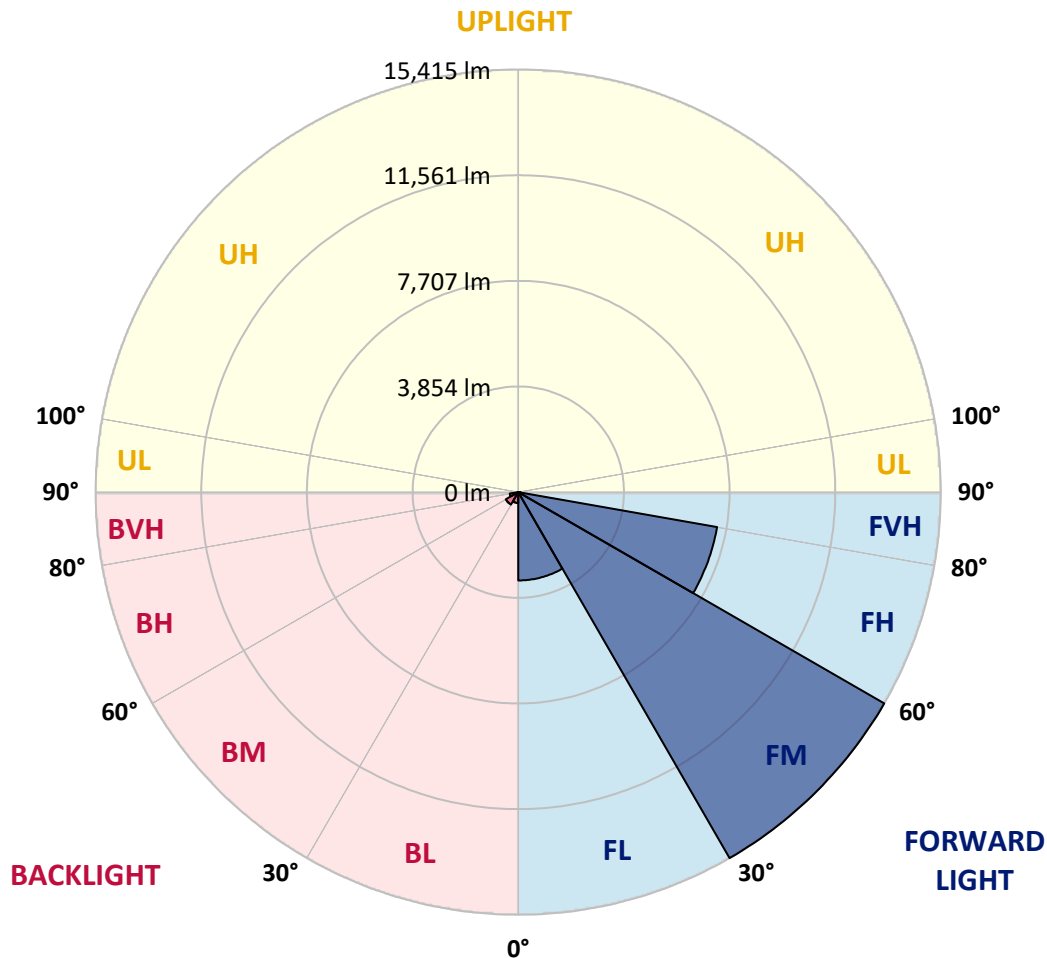
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3221.3	11.8			
FM (30°-60°)	15414.7	56.4			
FH (60°-80°)	7365.1	27.0			G3/7500
FVH (80°-90°)	80.5	0.3			G1/100
BL (0°-30°)	395.9	1.4	B1/500		
BM (30°-60°)	523.5	1.9	B1/1000		
BH (60°-80°)	312.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.8	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°	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0
2.5°	3974.8	3899.5	3820.5	3797.9	3651.1	3485.5	3331.1	3180.6	2928.4	2932.2	2759.0
5°	5122.8	5028.7	4964.7	4949.7	4720.1	4434.0	4200.6	3775.3	3357.5	3263.4	2947.2
7.5°	6067.6	6037.5	5943.4	5864.3	5694.9	5344.9	5070.1	4460.3	3824.2	3718.8	3176.8
10°	6639.7	6684.9	6726.3	6624.6	6492.9	6240.7	5864.3	5205.6	4355.0	4223.2	3474.2
12.5°	7249.5	7174.2	7200.5	7283.3	7110.2	7053.7	6587.0	5973.5	4976.0	4723.8	3850.6
15°	7407.6	7437.7	7501.7	7742.6	7859.2	7697.4	7294.6	6594.5	5619.7	5269.6	4200.6
17.5°	7513.0	7497.9	7576.9	7938.3	8115.2	8269.5	8017.3	7287.1	6180.5	5868.1	4637.3
20°	7644.7	7561.9	7735.0	7964.6	8374.9	8698.6	8687.3	7983.5	6767.7	6436.4	5070.1
22.5°	8134.0	8070.0	8209.3	8231.9	8517.9	8969.6	9078.8	8551.8	7369.9	6963.4	5536.9
25°	9037.4	9154.1	8988.4	8845.4	8932.0	9229.3	9308.4	9056.2	7975.9	7603.3	6003.6
27.5°	10358.5	10343.5	10016.0	9831.6	9624.6	9586.9	9643.4	9526.7	8454.0	8186.7	6387.5
30°	11777.6	11653.4	11352.2	10908.1	10452.6	10170.3	10091.3	9970.8	9014.8	8627.1	6767.7
32.5°	12906.8	12974.5	12639.5	12059.9	11303.3	10923.1	10543.0	10411.2	9632.1	9289.6	7204.3
35°	13945.6	13855.3	13588.1	13098.7	12421.2	11807.7	11213.0	10930.7	10373.6	10034.8	7686.1
37.5°	14713.5	14826.4	14318.3	13851.5	13177.8	12669.6	12086.2	11468.9	11137.7	10686.0	8273.3
40°	15439.9	15263.0	14920.5	14491.4	13866.6	13478.9	13095.0	12131.4	11950.7	11367.3	8935.7
42.5°	15312.0	15323.3	15135.1	14788.8	14337.1	14115.0	13983.3	12936.9	12688.5	12315.8	9583.2
45°	14788.8	14833.9	14897.9	14728.6	14766.2	14544.1	14897.9	13862.8	13618.2	13222.9	10328.4
47.5°	14212.9	14288.2	14273.1	14581.8	14931.8	15007.1	15891.6	14890.4	14785.0	14566.7	11359.8
50°	13256.8	13286.9	13576.8	14137.6	14615.6	15402.3	16636.9	16012.1	16173.9	15744.8	12586.8
52.5°	11623.2	11732.4	12477.7	13279.4	14243.0	15601.8	17141.3	17679.5	18089.8	17649.4	13765.0
55°	9556.8	9707.4	10441.3	11943.2	13354.7	15300.7	17600.5	18560.3	19392.2	18725.9	14480.1
57.5°	7689.9	7704.9	8363.6	9914.4	12093.7	14709.7	17833.9	18989.4	20107.3	19572.8	15353.4
60°	5860.6	5800.3	6391.3	7735.0	9970.8	13256.8	17250.4	19207.7	20999.4	20690.7	16403.5
62.5°	3771.5	3677.4	4321.1	5631.0	7787.7	10836.6	16083.6	19211.5	22392.1	22275.4	18161.3
65°	1866.9	1803.0	2356.3	3451.6	5390.1	8288.3	14419.9	19140.0	24093.4	24168.7	19873.9
67.5°	986.2	1008.8	1185.7	1750.3	3109.1	5856.8	11913.1	18300.6	24962.9	25384.4	20288.0
68°	907.1	914.7	1053.9	1456.7	2698.8	5431.5	11318.4	18055.9	25030.6	25550.1	20058.4
70°	737.7	749.0	798.0	914.7	1460.4	3534.4	8732.5	15978.2	24010.6	24484.9	18157.6
72.5°	587.2	621.1	651.2	700.1	858.2	1855.7	5431.5	12451.3	19836.3	19889.0	14133.8
75°	447.9	474.3	534.5	575.9	670.0	1020.0	2585.9	7592.0	13015.9	12376.0	8326.0
77.5°	346.3	368.9	395.2	451.7	560.8	688.8	790.4	3222.0	5529.3	4550.7	2352.5
80°	207.0	222.1	308.6	353.8	489.3	466.7	312.4	895.8	1121.7	884.5	429.1
82.5°	120.4	131.7	176.9	271.0	342.5	252.2	184.4	278.5	274.8	240.9	143.0
85°	3.8	7.5	97.9	161.9	120.4	67.8	112.9	116.7	97.9	90.3	64.0
87.5°	0.0	3.8	26.3	22.6	26.3	15.1	22.6	30.1	37.6	33.9	26.3
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°	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0
2.5°	2642.3	2559.5	2375.1	2235.8	2085.3	1994.9	1904.6	1848.1	1818.0	1799.2	1814.3
5°	2710.1	2536.9	2239.6	1976.1	1803.0	1686.3	1569.6	1509.4	1452.9	1422.8	1441.6
7.5°	2860.6	2600.9	2107.8	1821.8	1618.5	1437.8	1291.1	1174.4	1106.6	1046.4	1057.7
10°	3045.1	2638.6	2111.6	1731.4	1437.8	1151.8	944.8	798.0	715.2	662.5	658.7
12.5°	3233.3	2785.4	2126.7	1641.1	1215.8	865.7	621.1	511.9	463.0	436.6	436.6
15°	3519.3	2917.1	2089.0	1475.5	922.2	564.6	425.3	387.7	368.9	346.3	350.1
17.5°	3767.8	3127.9	2070.2	1227.1	632.4	406.5	353.8	312.4	293.6	271.0	271.0
20°	4102.8	3259.6	1968.6	948.5	436.6	338.8	286.1	248.4	218.3	199.5	203.3
22.5°	4407.6	3361.3	1787.9	647.4	335.0	267.2	210.8	173.1	146.8	124.2	128.0
25°	4738.9	3462.9	1524.4	399.0	237.1	165.6	112.9	82.8	56.5	41.4	41.4
27.5°	4976.0	3493.0	1181.9	237.1	143.0	75.3	26.3	3.8	0.0	0.0	0.0
30°	5216.9	3504.3	816.8	128.0	56.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5491.7	3500.5	511.9	67.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	5702.5	3436.5	244.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6022.4	3342.4	75.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6387.5	3173.1	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6715.0	2999.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7087.6	2785.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7742.6	2695.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8597.0	2623.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9123.9	2412.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9398.7	2194.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9805.2	2089.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10407.5	2096.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11348.5	2201.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11867.9	2096.6	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11427.5	1678.7	71.5	18.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	11047.4	1543.2	71.5	18.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	9131.5	1005.0	67.8	18.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6651.0	557.1	56.5	15.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	3869.4	278.5	41.4	15.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1008.8	139.3	33.9	18.8	11.3	3.8	0.0	0.0	0.0	0.0	0.0
80°	199.5	90.3	30.1	22.6	15.1	7.5	0.0	0.0	0.0	0.0	0.0
82.5°	94.1	64.0	30.1	22.6	18.8	11.3	3.8	0.0	0.0	0.0	0.0
85°	48.9	30.1	30.1	22.6	22.6	15.1	7.5	0.0	0.0	0.0	0.0
87.5°	22.6	11.3	11.3	11.3	11.3	7.5	3.8	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)