

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: P482198

Luminaire Tested: **IFLD-L-SA7A-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482198
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

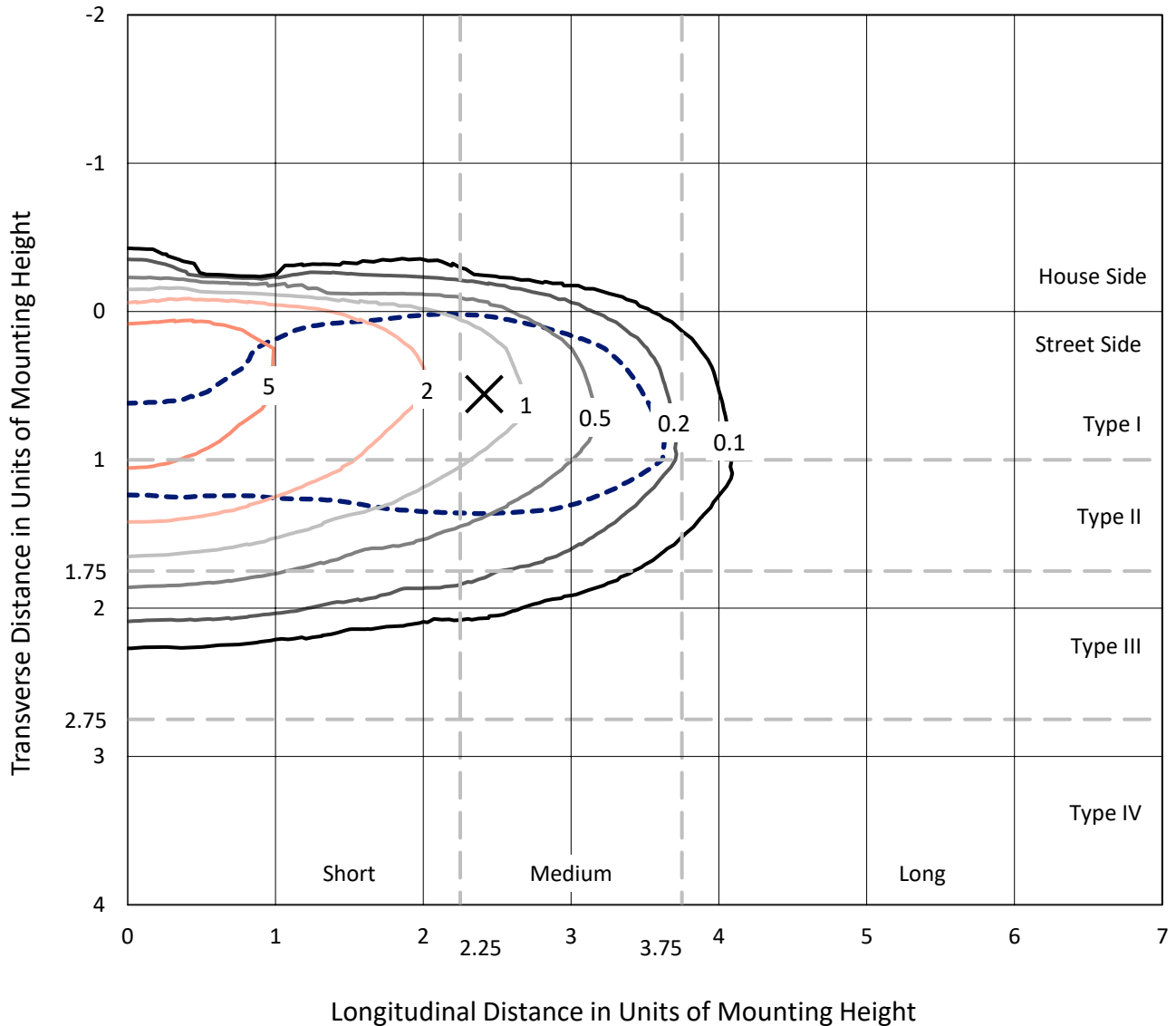
Lumens per Lamp: N/A
Luminaire Lumens: 18089.9 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 217.6
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

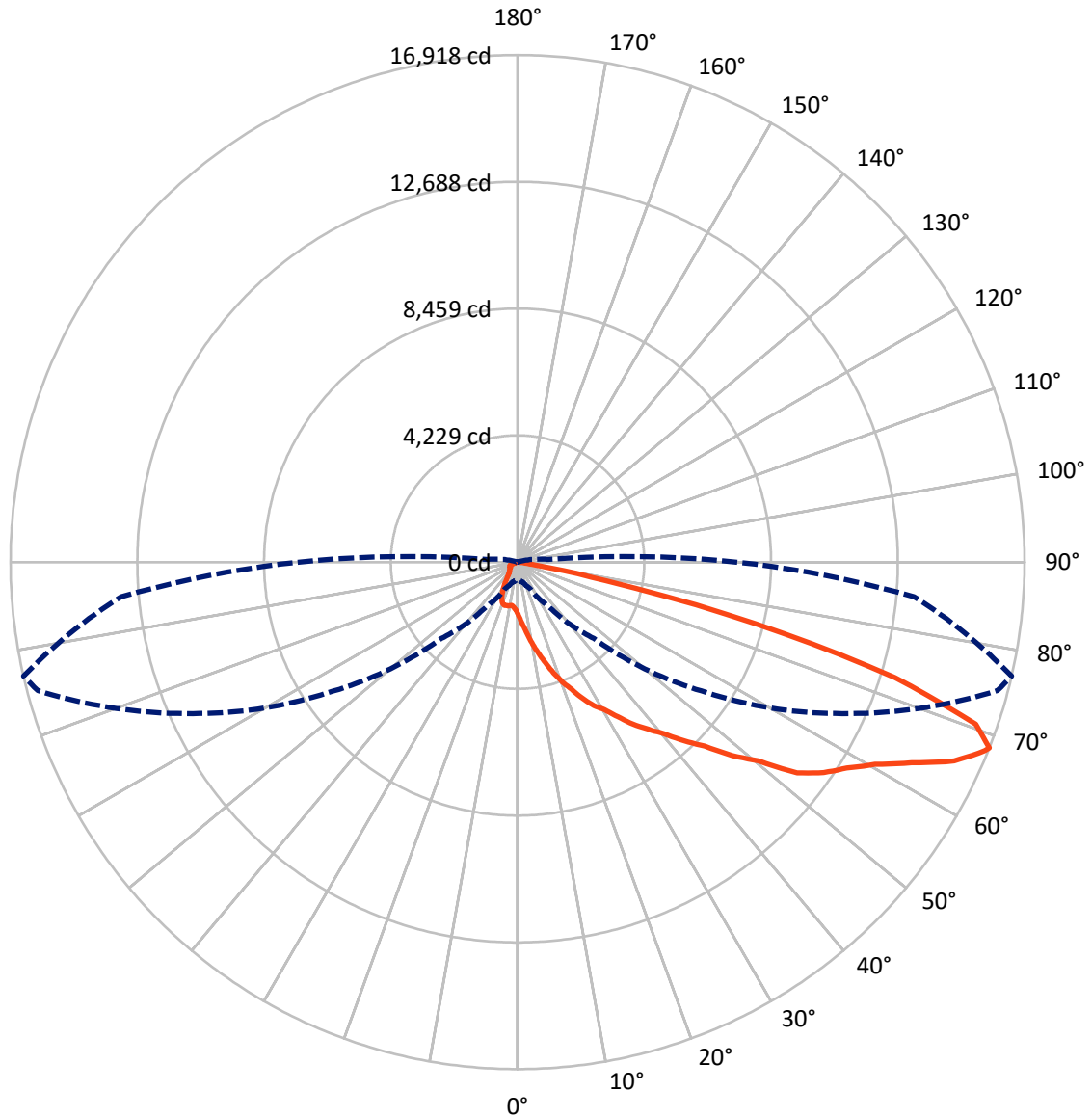
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	820.4	0.0	820.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	17269.5	0.0	17269.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	18089.9	0.0	18089.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	1.1
10°-20°	746.3	4.1
20°-30°	1446.4	8.0
30°-40°	2521.5	13.9
40°-50°	3693.0	20.4
50°-60°	4338.7	24.0
60°-70°	3663.7	20.3
70°-80°	1420.1	7.9
80°-90°	57.8	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°	18089.9	100.0
0°-180°	18089.9	100.0

Coefficient of Utilization



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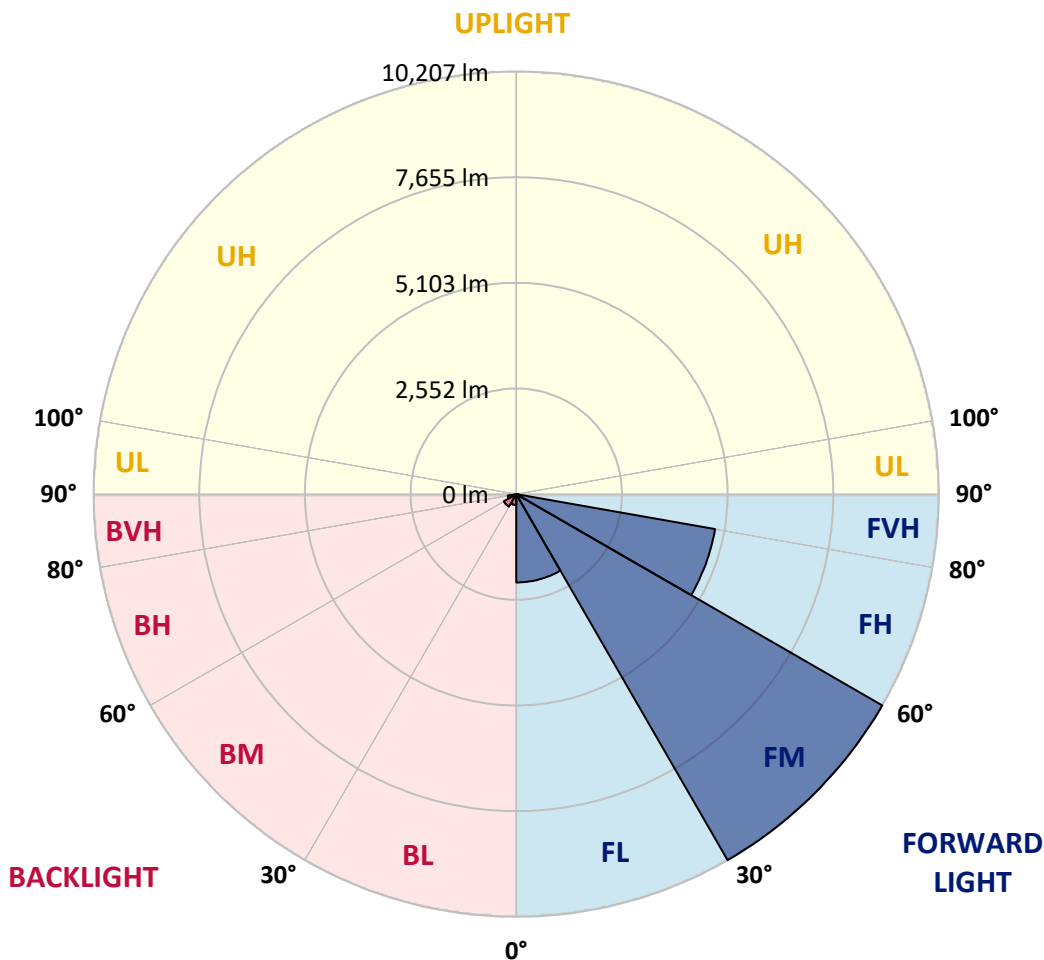
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2133.0	11.8			
FM (30°-60°)	10206.6	56.4			
FH (60°-80°)	4876.7	27.0			G2/5000
FVH (80°-90°)	53.3	0.3			G1/100
BL (0°-30°)	262.1	1.4	B1/500		
BM (30°-60°)	346.6	1.9	B1/1000		
BH (60°-80°)	207.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	2631.8	2582.0	2529.7	2514.7	2417.5	2307.8	2205.7	2106.0	1939.0	1941.5	1826.8
5°	3392.0	3329.7	3287.3	3277.3	3125.3	2935.9	2781.4	2499.8	2223.1	2160.8	1951.5
7.5°	4017.5	3997.6	3935.3	3883.0	3770.8	3539.0	3357.1	2953.3	2532.2	2462.4	2103.5
10°	4396.4	4426.3	4453.7	4386.4	4299.2	4132.2	3883.0	3446.8	2883.6	2796.3	2300.4
12.5°	4800.1	4750.3	4767.7	4822.6	4707.9	4670.5	4361.5	3955.2	3294.8	3127.8	2549.6
15°	4904.8	4924.7	4967.1	5126.6	5203.9	5096.7	4830.0	4366.5	3721.0	3489.2	2781.4
17.5°	4974.6	4964.6	5017.0	5256.2	5373.3	5475.5	5308.5	4825.0	4092.3	3885.5	3070.5
20°	5061.8	5007.0	5121.6	5273.7	5545.3	5759.6	5752.2	5286.1	4481.1	4261.8	3357.1
22.5°	5385.8	5343.4	5435.7	5450.6	5640.0	5939.1	6011.4	5662.4	4879.9	4610.7	3666.1
25°	5984.0	6061.2	5951.6	5856.8	5914.2	6111.1	6163.4	5996.4	5281.1	5034.4	3975.2
27.5°	6858.7	6848.8	6631.9	6509.8	6372.7	6347.8	6385.2	6307.9	5597.7	5420.7	4229.4
30°	7798.3	7716.1	7516.7	7222.6	6921.0	6734.1	6681.8	6602.0	5969.0	5712.3	4481.1
32.5°	8546.0	8590.9	8369.1	7985.3	7484.3	7232.6	6980.9	6893.6	6377.7	6150.9	4770.2
35°	9233.9	9174.1	8997.1	8673.1	8224.5	7818.3	7424.5	7237.6	6868.7	6644.4	5089.2
37.5°	9742.3	9817.1	9480.6	9171.6	8725.5	8389.0	8002.7	7594.0	7374.6	7075.6	5478.0
40°	10223.3	10106.2	9879.4	9595.3	9181.5	8924.8	8670.6	8032.6	7913.0	7526.7	5916.7
42.5°	10138.6	10146.1	10021.4	9792.2	9493.1	9346.0	9258.8	8566.0	8401.5	8154.7	6345.3
45°	9792.2	9822.1	9864.4	9752.3	9777.2	9630.2	9864.4	9179.1	9017.1	8755.4	6838.8
47.5°	9410.8	9460.7	9450.7	9655.1	9886.9	9936.7	10522.4	9859.4	9789.7	9645.1	7521.7
50°	8777.8	8797.7	8989.6	9361.0	9677.5	10198.4	11015.9	10602.1	10709.3	10425.2	8334.2
52.5°	7696.1	7768.4	8261.9	8792.7	9430.8	10330.5	11349.8	11706.2	11977.9	11686.3	9114.3
55°	6327.9	6427.6	6913.6	7908.0	8842.6	10131.1	11653.9	12289.4	12840.2	12399.1	9587.8
57.5°	5091.7	5101.7	5537.8	6564.7	8007.7	9739.8	11808.4	12573.5	13313.7	12959.8	10166.0
60°	3880.5	3840.6	4231.9	5121.6	6602.0	8777.8	11422.1	12718.1	13904.4	13700.0	10861.3
62.5°	2497.3	2435.0	2861.1	3728.4	5156.5	7175.3	10649.5	12720.6	14826.5	14749.3	12025.2
65°	1236.2	1193.8	1560.2	2285.4	3568.9	5488.0	9547.9	12673.2	15953.1	16002.9	13159.2
67.5°	653.0	667.9	785.1	1158.9	2058.6	3878.0	7888.1	12117.4	16528.8	16807.9	13433.4
68°	600.6	605.6	697.8	964.5	1787.0	3596.4	7494.3	11955.4	16573.6	16917.6	13281.3
70°	488.5	496.0	528.4	605.6	967.0	2340.2	5782.1	10579.7	15898.2	16212.3	12022.7
72.5°	388.8	411.2	431.2	463.6	568.2	1228.7	3596.4	8244.4	13134.3	13169.2	9358.5
75°	296.6	314.0	353.9	381.3	443.6	675.4	1712.2	5026.9	8618.3	8194.6	5512.9
77.5°	229.3	244.2	261.7	299.1	371.3	456.1	523.4	2133.4	3661.2	3013.2	1557.7
80°	137.1	147.0	204.4	234.3	324.0	309.0	206.9	593.2	742.7	585.7	284.1
82.5°	79.8	87.2	117.1	179.4	226.8	167.0	122.1	184.4	181.9	159.5	94.7
85°	2.5	5.0	64.8	107.2	79.8	44.9	74.8	77.3	64.8	59.8	42.4
87.5°	0.0	2.5	17.4	15.0	17.4	10.0	15.0	19.9	24.9	22.4	17.4
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°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1749.6	1694.7	1572.6	1480.4	1380.7	1320.9	1261.1	1223.7	1203.8	1191.3	1201.3
5°	1794.4	1679.8	1482.9	1308.4	1193.8	1116.5	1039.3	999.4	962.0	942.1	954.5
7.5°	1894.1	1722.2	1395.7	1206.3	1071.7	952.0	854.9	777.6	732.7	692.9	700.3
10°	2016.3	1747.1	1398.2	1146.4	952.0	762.6	625.6	528.4	473.5	438.6	436.1
12.5°	2140.9	1844.3	1408.1	1086.6	805.0	573.2	411.2	338.9	306.5	289.1	289.1
15°	2330.3	1931.5	1383.2	977.0	610.6	373.8	281.6	256.7	244.2	229.3	231.8
17.5°	2494.8	2071.1	1370.8	812.5	418.7	269.2	234.3	206.9	194.4	179.4	179.4
20°	2716.6	2158.3	1303.5	628.1	289.1	224.3	189.4	164.5	144.6	132.1	134.6
22.5°	2918.5	2225.6	1183.8	428.7	221.8	177.0	139.6	114.6	97.2	82.2	84.7
25°	3137.8	2292.9	1009.4	264.2	157.0	109.7	74.8	54.8	37.4	27.4	27.4
27.5°	3294.8	2312.8	782.6	157.0	94.7	49.8	17.4	2.5	0.0	0.0	0.0
30°	3454.3	2320.3	540.8	84.7	37.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3636.2	2317.8	338.9	44.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	3775.8	2275.4	162.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3987.6	2213.1	49.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4229.4	2101.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4446.2	1986.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4693.0	1844.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5126.6	1784.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5692.4	1737.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6041.3	1597.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6223.2	1453.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6492.4	1383.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6891.1	1388.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7514.2	1458.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7858.1	1388.2	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7566.5	1111.6	47.4	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	7314.8	1021.8	47.4	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	6046.3	665.4	44.9	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4403.9	368.9	37.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2562.1	184.4	27.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	667.9	92.2	22.4	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	132.1	59.8	19.9	15.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.3	42.4	19.9	15.0	12.5	7.5	2.5	0.0	0.0	0.0	0.0
85°	32.4	19.9	19.9	15.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0
87.5°	15.0	7.5	7.5	7.5	7.5	5.0	2.5	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)