

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: P483797

Luminaire Tested: **IFLD-L-SA7A-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483797
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

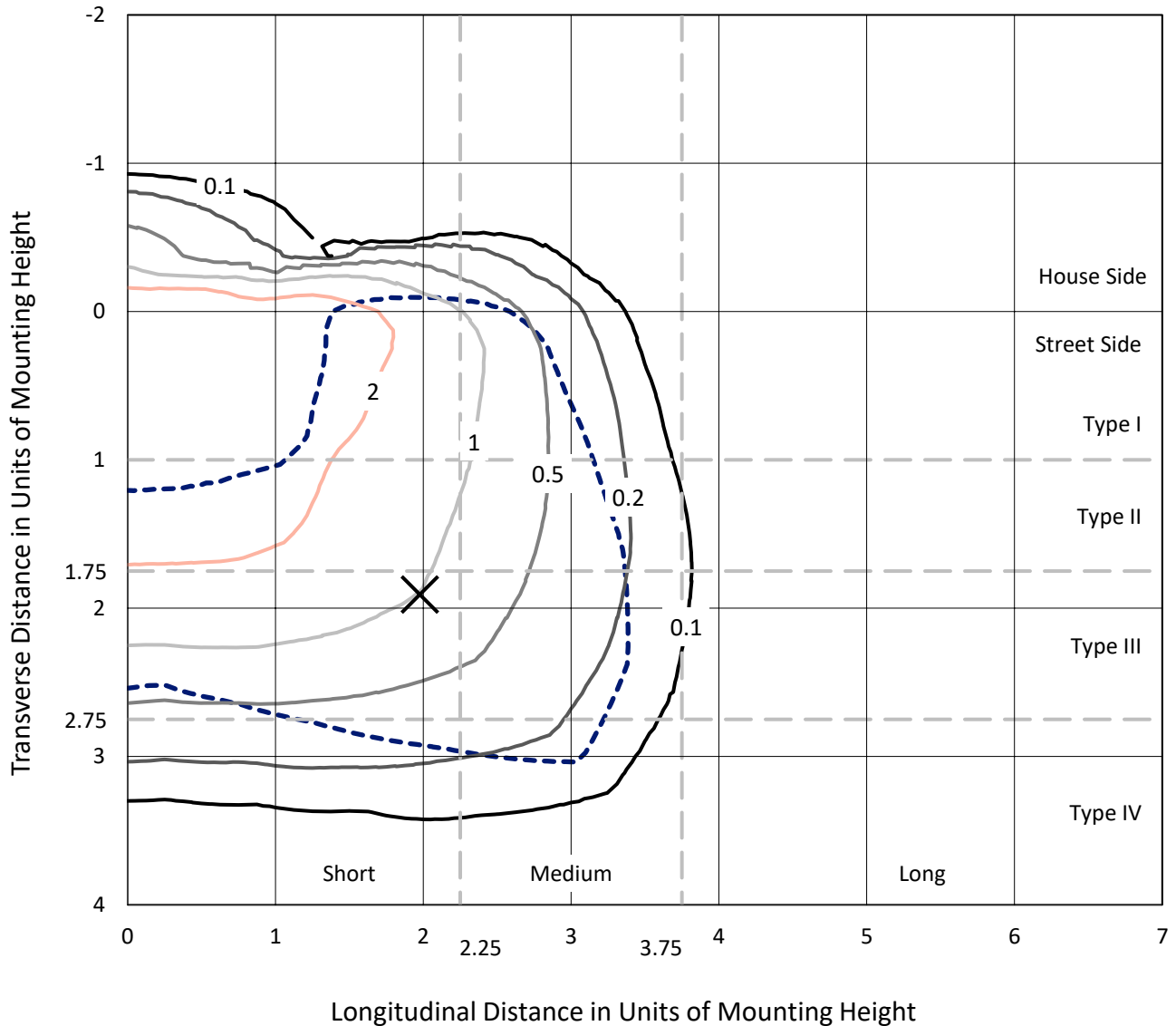
Lumens per Lamp: N/A
Luminaire Lumens: 18351 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

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

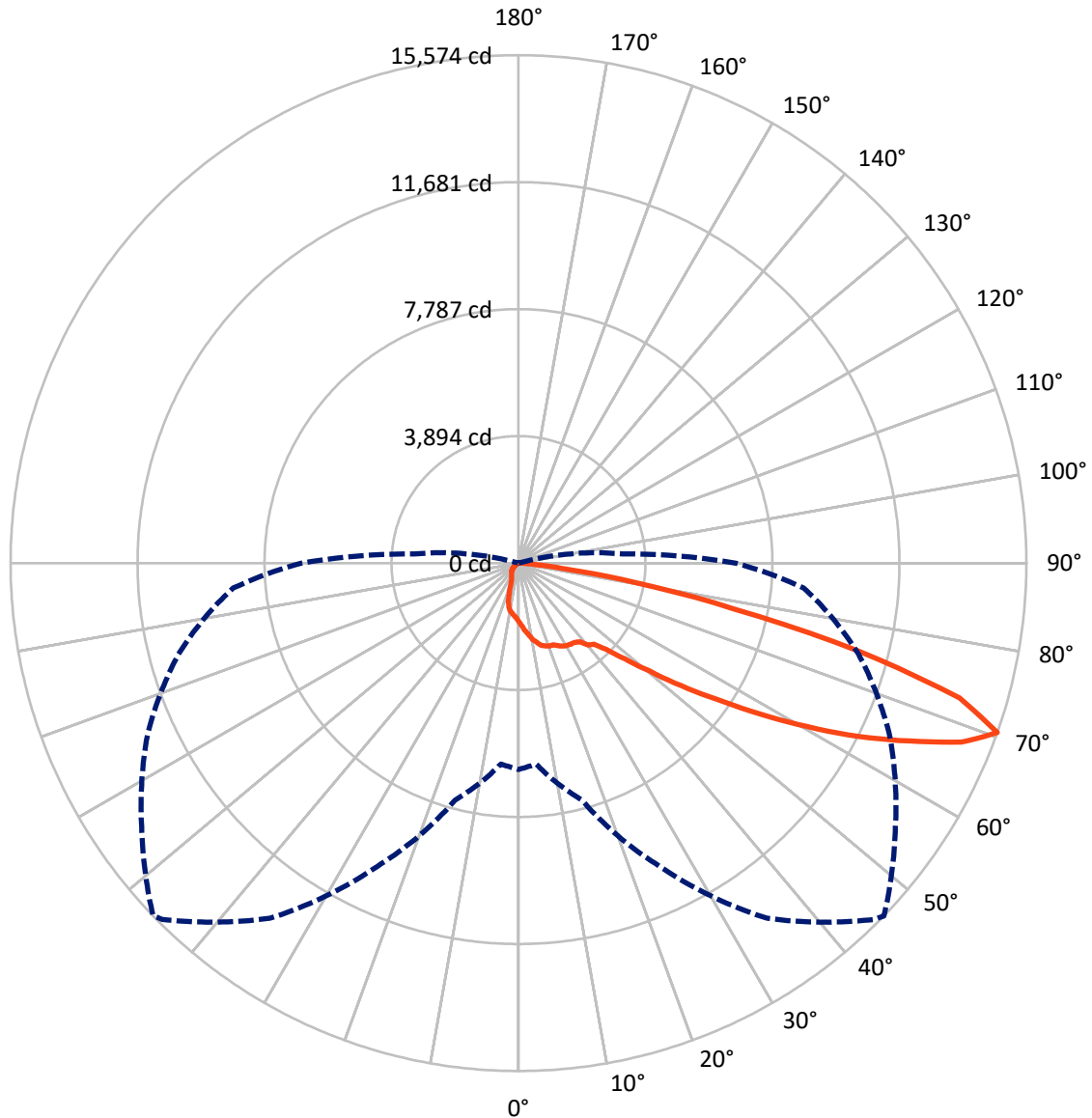
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1826.0	0.0	1826.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	16525.0	0.0	16525.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	18351.0	0.0	18351.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	1.0
10°-20°	542.5	3.0
20°-30°	868.9	4.7
30°-40°	1240.3	6.8
40°-50°	2141.6	11.7
50°-60°	4100.3	22.3
60°-70°	6071.8	33.1
70°-80°	3007.3	16.4
80°-90°	198.7	1.1
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°	18351.0	100.0
0°-180°	18351.0	100.0



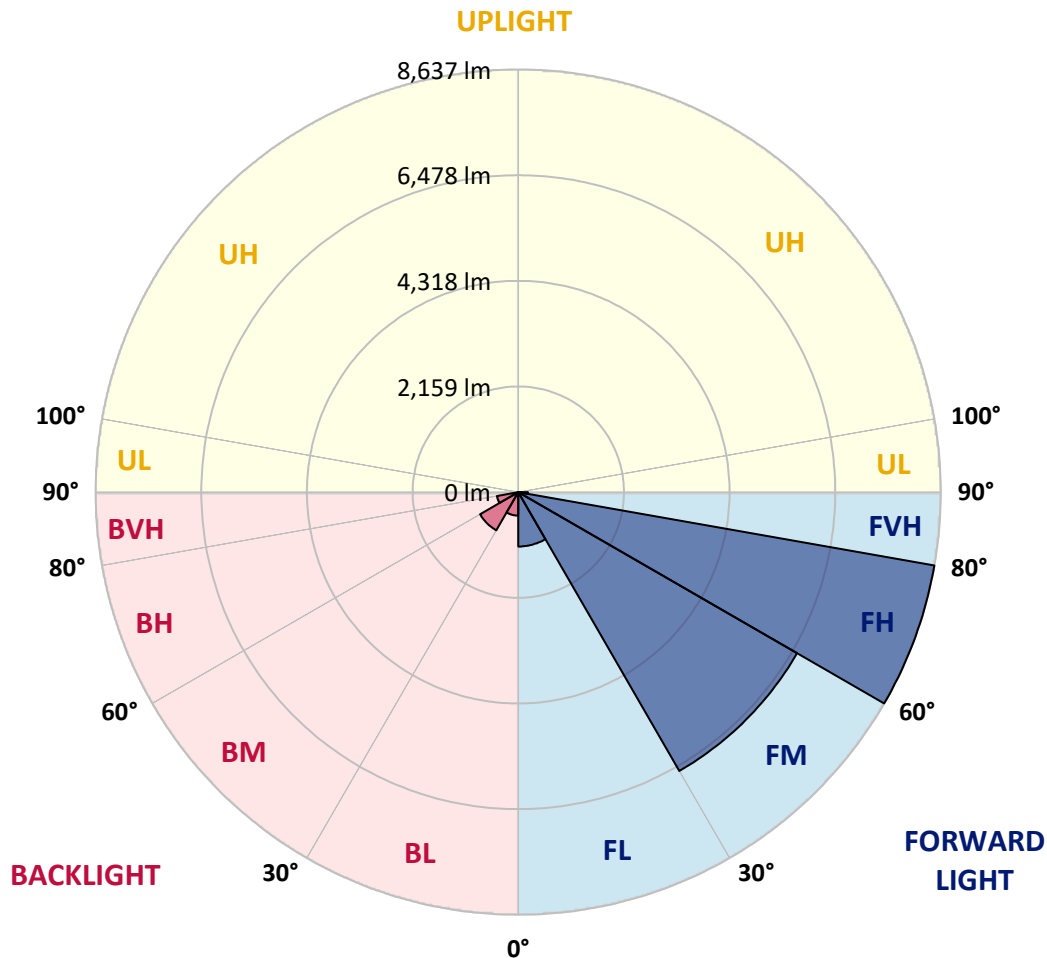
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.3	6.1			
FM (30°-60°)	6580.6	35.9			
FH (60°-80°)	8636.9	47.1			G4/12000
FVH (80°-90°)	196.2	1.1			G2/225
BL (0°-30°)	479.7	2.6	B1/500		
BM (30°-60°)	901.5	4.9	B1/1000		
BH (60°-80°)	442.2	2.4	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5
2.5°	2010.2	1997.0	1975.8	1967.9	1946.8	1936.2	1920.4	1912.4	1883.4	1854.3	1835.8
5°	2255.8	2224.1	2234.7	2203.0	2134.3	2078.9	2076.2	2015.5	1949.4	1896.6	1825.3
7.5°	2504.1	2477.7	2438.1	2393.2	2316.6	2234.7	2210.9	2152.8	2060.4	1967.9	1872.8
10°	2691.7	2673.2	2638.8	2575.5	2469.8	2377.3	2380.0	2282.2	2184.5	2078.9	1949.4
12.5°	2807.9	2815.8	2765.6	2702.2	2609.8	2493.6	2490.9	2424.9	2313.9	2203.0	2049.8
15°	2924.1	2953.2	2876.6	2802.6	2683.8	2599.2	2615.1	2535.8	2427.5	2300.7	2131.7
17.5°	2942.6	2950.5	2934.7	2826.4	2739.2	2667.9	2670.5	2617.7	2535.8	2398.5	2253.2
20°	2910.9	2905.6	2887.1	2807.9	2749.8	2707.5	2710.2	2697.0	2652.1	2541.1	2343.0
22.5°	2818.5	2818.5	2794.7	2741.9	2715.5	2755.1	2723.4	2773.6	2726.0	2660.0	2496.2
25°	2744.5	2773.6	2760.4	2726.0	2736.6	2789.4	2805.3	2852.8	2844.9	2763.0	2601.9
27.5°	2823.8	2789.4	2797.3	2757.7	2797.3	2876.6	2884.5	2918.8	2916.2	2850.2	2697.0
30°	2876.6	2908.3	2847.5	2760.4	2802.6	2937.3	2932.1	2977.0	2998.1	2918.8	2786.8
32.5°	3045.6	3019.2	2969.0	2852.8	2858.1	2934.7	2958.5	3016.6	3029.8	2982.2	2873.9
35°	3391.7	3352.1	3132.8	2958.5	2932.1	2969.0	2984.9	3098.5	3122.2	3069.4	2966.4
37.5°	3925.3	3835.4	3571.3	3185.6	3066.8	3058.8	3058.8	3209.4	3299.2	3177.7	3103.8
40°	4688.6	4561.9	4276.6	3605.6	3243.8	3275.4	3307.1	3389.0	3378.5	3299.2	3283.4
42.5°	5660.7	5563.0	5253.9	4310.9	3581.9	3423.4	3397.0	3507.9	3674.3	3642.6	3632.1
45°	6471.7	6476.9	6278.8	5277.7	4165.6	3764.1	3782.6	3867.1	4147.1	4123.4	4120.7
47.5°	7063.3	6989.4	6960.3	6210.1	5016.2	4411.3	4384.9	4443.0	4807.5	4958.1	5026.8
50°	7602.2	7552.0	7483.3	7116.2	6038.4	5222.2	5195.8	5201.1	5758.5	5969.8	6138.8
52.5°	8270.5	8333.9	8106.7	7882.2	7361.8	6276.2	6247.1	6144.1	6836.2	7126.7	7327.5
55°	9094.7	8975.8	8719.6	8835.8	8627.1	7414.7	7361.8	7240.3	8064.5	8186.0	8397.3
57.5°	9276.9	9187.1	9451.3	9863.3	10064.1	8751.3	8730.1	8510.9	9097.3	8986.4	9583.3
60°	9731.3	9755.0	10122.2	10941.1	11289.7	10293.9	10190.9	9805.2	10098.4	10119.6	10756.2
62.5°	10198.8	10143.3	10964.8	11752.0	12288.2	11754.6	11720.3	10954.3	11287.1	11017.7	11860.3
65°	9855.4	9939.9	11115.4	12433.5	13582.5	13183.7	13154.6	12061.0	12243.3	11907.8	12309.3
67.5°	8635.0	8463.3	10109.0	12121.8	14248.2	14681.4	14649.7	13268.2	12782.2	11902.6	11376.9
70°	6329.0	6181.1	7523.0	10264.8	13294.6	15447.4	15574.2	14108.2	12562.9	10793.1	8777.7
72.5°	3101.1	3103.8	4215.8	6960.3	10518.4	14079.1	14142.5	12935.4	10793.1	7956.2	4971.3
75°	916.6	927.2	1561.1	3412.8	6799.2	10692.8	10764.1	9818.4	7480.7	4110.2	1695.8
77.5°	335.5	335.5	517.7	1281.1	3391.7	6749.0	6743.7	6027.9	3787.9	1392.1	396.2
80°	174.3	182.3	269.4	523.0	1468.7	3515.8	3647.9	2950.5	1439.6	586.4	116.2
82.5°	71.3	79.2	147.9	269.4	705.3	1233.6	1349.8	1157.0	626.0	409.4	52.8
85°	21.1	23.8	71.3	150.6	277.4	309.1	343.4	388.3	393.6	317.0	23.8
87.5°	2.6	2.6	29.1	50.2	60.8	66.0	76.6	76.6	200.8	221.9	13.2
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°	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5
2.5°	1814.7	1801.5	1780.4	1732.8	1722.3	1687.9	1685.3	1653.6	1664.1	1643.0	1635.1
5°	1801.5	1772.4	1714.3	1677.3	1640.4	1616.6	1600.7	1587.5	1584.9	1574.3	1569.0
7.5°	1825.3	1785.6	1695.8	1637.7	1574.3	1553.2	1518.9	1516.2	1497.7	1479.2	1479.2
10°	1904.5	1833.2	1735.5	1637.7	1555.8	1487.2	1407.9	1349.8	1328.7	1281.1	1286.4
12.5°	1967.9	1904.5	1761.9	1661.5	1537.3	1381.5	1207.2	1072.4	1009.0	948.3	972.1
15°	2057.7	1965.3	1812.1	1666.8	1466.0	1196.6	911.3	760.7	702.6	689.4	686.8
17.5°	2155.5	2057.7	1875.5	1653.6	1320.7	924.5	670.9	583.8	594.3	610.2	607.5
20°	2263.8	2144.9	1923.0	1608.7	1090.9	670.9	549.4	546.8	562.6	586.4	591.7
22.5°	2377.3	2274.3	1981.1	1474.0	813.6	538.9	528.3	528.3	538.9	567.9	562.6
25°	2504.1	2366.8	2010.2	1265.3	583.8	496.6	501.9	512.4	517.7	541.5	544.1
27.5°	2601.9	2469.8	2018.1	1014.3	475.5	459.6	472.8	486.0	494.0	512.4	520.4
30°	2691.7	2599.2	1975.8	755.5	435.8	427.9	433.2	451.7	467.5	483.4	483.4
32.5°	2805.3	2673.2	1878.1	536.2	412.1	398.9	396.2	404.1	422.6	441.1	441.1
35°	2921.5	2797.3	1722.3	430.6	390.9	372.5	361.9	354.0	361.9	375.1	385.7
37.5°	3090.5	2984.9	1526.8	396.2	375.1	348.7	327.5	309.1	295.8	293.2	301.1
40°	3330.9	3196.2	1275.8	372.5	356.6	324.9	293.2	261.5	232.5	214.0	216.6
42.5°	3695.4	3507.9	1003.8	359.2	343.4	298.5	253.6	208.7	171.7	153.2	153.2
45°	4215.8	3920.0	737.0	346.0	327.5	266.8	208.7	155.8	118.9	108.3	110.9
47.5°	5000.3	4416.6	528.3	324.9	306.4	232.5	163.8	110.9	87.2	81.9	84.5
50°	6025.2	5005.6	412.1	301.1	280.0	195.5	121.5	81.9	68.7	66.0	68.7
52.5°	7100.3	5600.0	361.9	280.0	240.4	155.8	89.8	66.0	58.1	55.5	58.1
55°	8019.6	5983.0	314.3	248.3	192.8	116.2	71.3	58.1	50.2	42.3	42.3
57.5°	8949.4	6175.8	248.3	206.0	142.6	87.2	60.8	50.2	42.3	34.3	31.7
60°	9704.8	6313.2	177.0	153.2	100.4	68.7	52.8	44.9	34.3	26.4	23.8
62.5°	10201.4	5919.6	129.4	116.2	74.0	58.1	44.9	37.0	26.4	18.5	18.5
65°	9955.8	5375.4	100.4	81.9	55.5	44.9	37.0	26.4	18.5	10.6	7.9
67.5°	8933.5	4379.6	81.9	60.8	42.3	34.3	29.1	21.1	10.6	2.6	2.6
70°	6664.5	3209.4	66.0	44.9	34.3	26.4	21.1	13.2	5.3	2.6	0.0
72.5°	3645.3	1756.6	52.8	37.0	26.4	21.1	15.8	10.6	5.3	0.0	0.0
75°	1204.5	467.5	39.6	26.4	15.8	13.2	10.6	7.9	2.6	0.0	0.0
77.5°	290.6	121.5	31.7	23.8	13.2	7.9	5.3	2.6	2.6	0.0	0.0
80°	89.8	50.2	23.8	15.8	10.6	7.9	2.6	0.0	0.0	0.0	0.0
82.5°	37.0	23.8	10.6	10.6	7.9	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.5	13.2	7.9	5.3	5.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	5.3	2.6	2.6	0.0	0.0	0.0	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)