

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: P483709

Luminaire Tested: **IFLD-S-SA6A-760-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483709
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-760-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

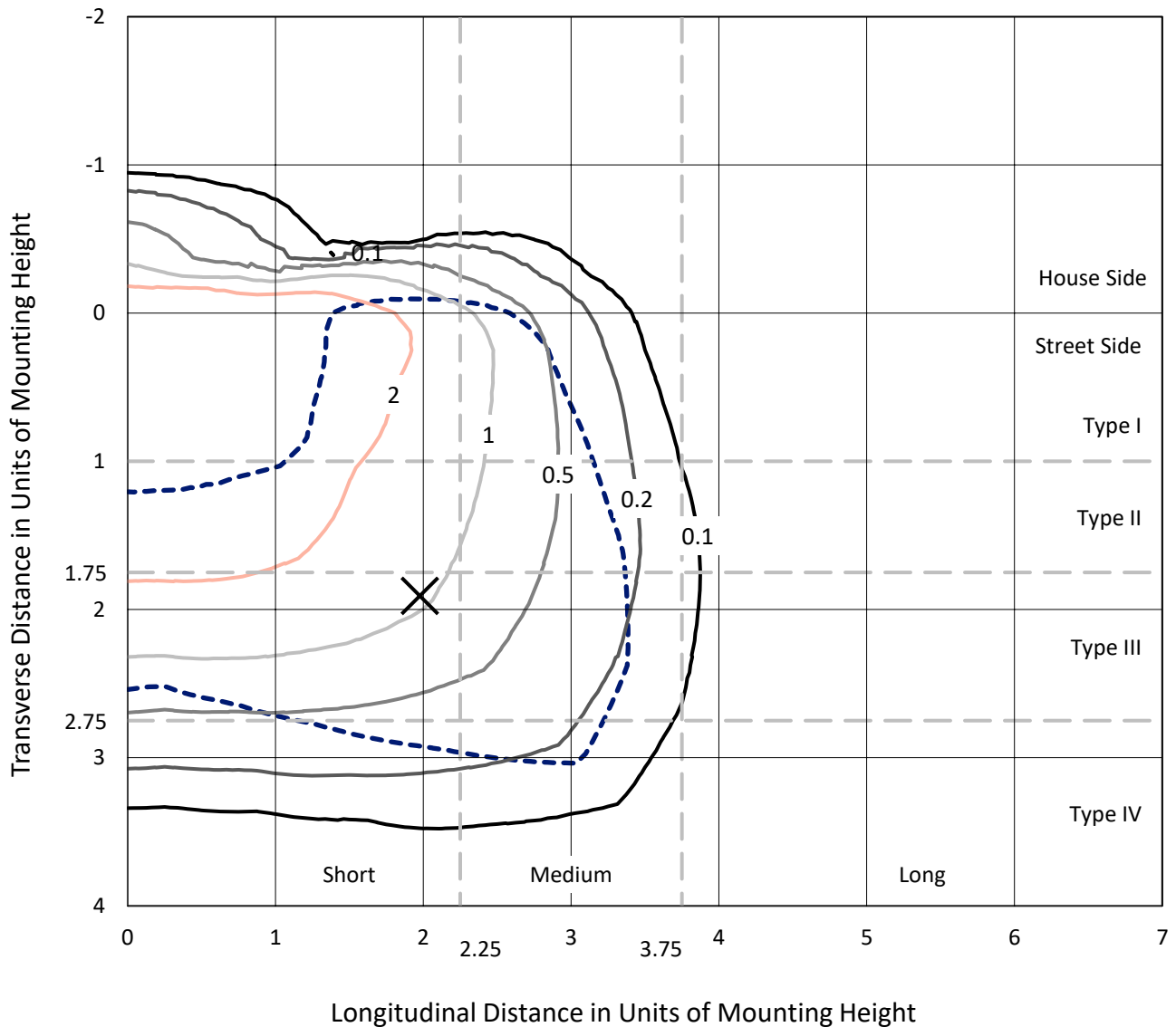
Lumens per Lamp: N/A
Luminaire Lumens: 20370.2 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

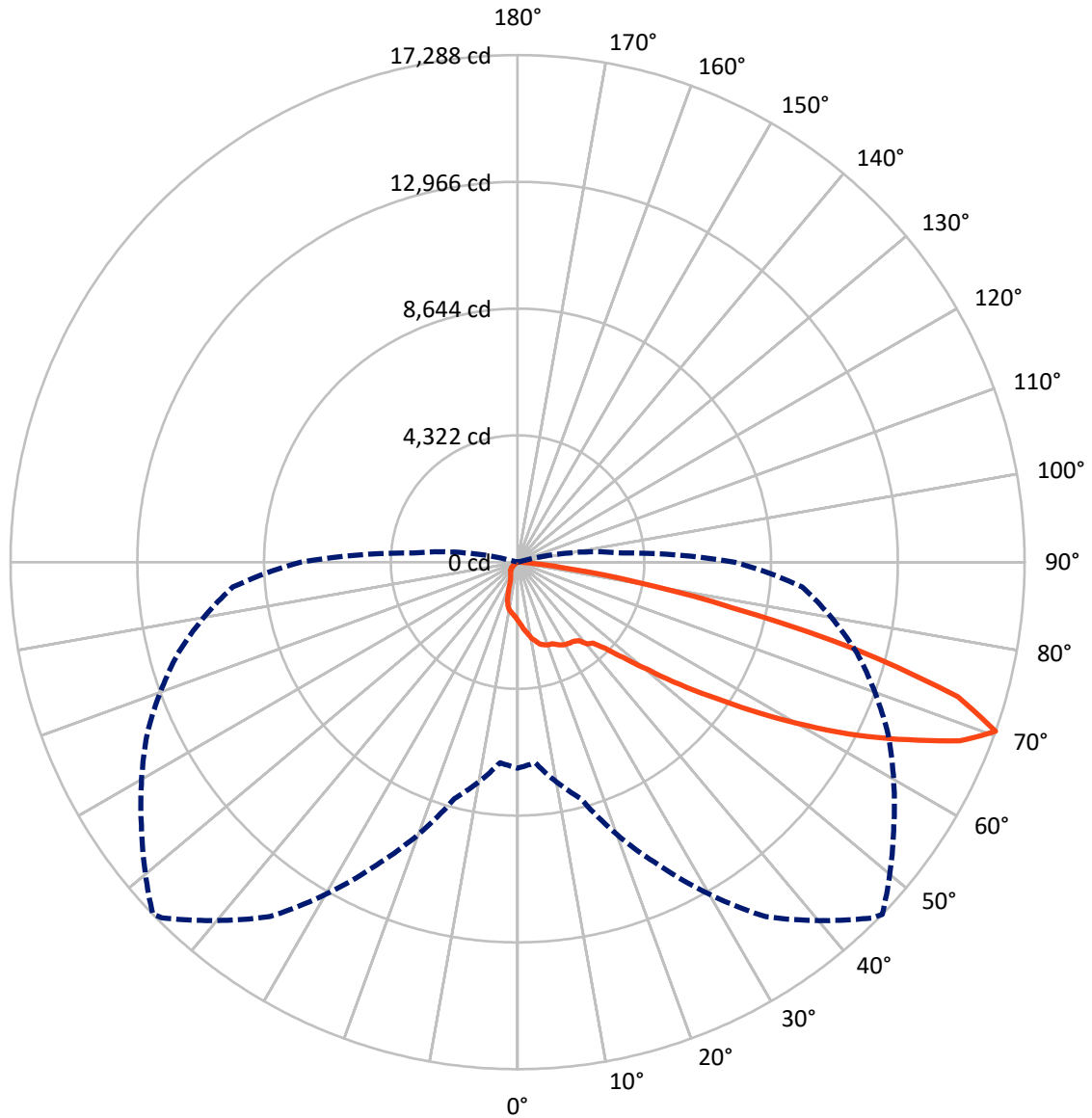
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2026.9	0.0	2026.9
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	18343.3	0.0	18343.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	20370.2	0.0	20370.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	1.0
10°-20°	602.2	3.0
20°-30°	964.5	4.7
30°-40°	1376.7	6.8
40°-50°	2377.2	11.7
50°-60°	4551.4	22.3
60°-70°	6739.9	33.1
70°-80°	3338.2	16.4
80°-90°	220.6	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°	20370.2	100.0
0°-180°	20370.2	100.0



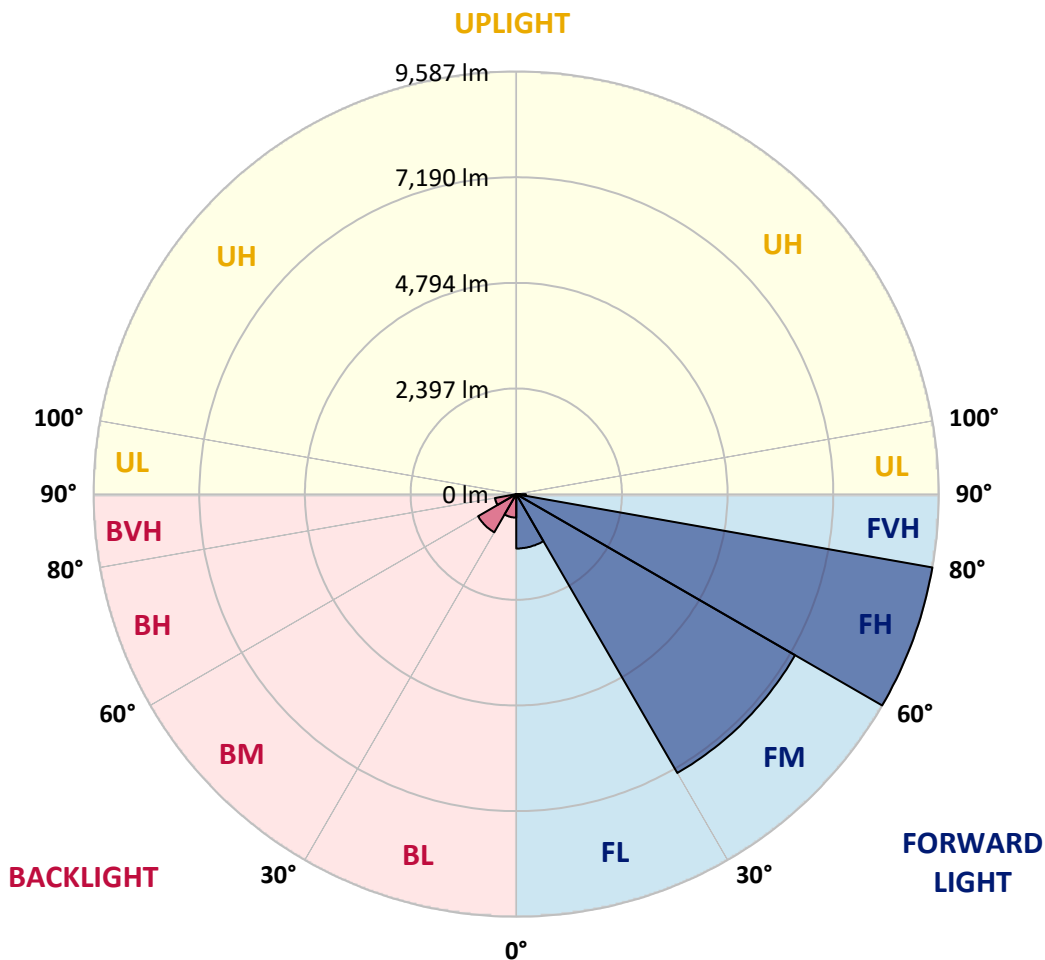
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.6	6.1			
FM (30°-60°)	7304.7	35.9			
FH (60°-80°)	9587.3	47.1			G4/12000
FVH (80°-90°)	217.8	1.1			G2/225
BL (0°-30°)	532.5	2.6	B2/1000		
BM (30°-60°)	1000.7	4.9	B2/2500		
BH (60°-80°)	490.9	2.4	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7
2.5°	2231.4	2216.7	2193.2	2184.4	2161.0	2149.3	2131.7	2122.9	2090.6	2058.4	2037.8
5°	2504.0	2468.9	2480.6	2445.4	2369.2	2307.6	2304.7	2237.2	2163.9	2105.3	2026.1
7.5°	2779.7	2750.3	2706.4	2656.5	2571.5	2480.6	2454.2	2389.7	2287.1	2184.4	2078.9
10°	2987.8	2967.3	2929.2	2858.8	2741.5	2638.9	2641.9	2533.4	2424.9	2307.6	2163.9
12.5°	3116.9	3125.7	3069.9	2999.6	2897.0	2767.9	2765.0	2691.7	2568.6	2445.4	2275.3
15°	3245.9	3278.1	3193.1	3111.0	2979.1	2885.2	2902.8	2814.9	2694.6	2553.9	2366.2
17.5°	3266.4	3275.2	3257.6	3137.4	3040.6	2961.5	2964.4	2905.7	2814.9	2662.4	2501.1
20°	3231.2	3225.3	3204.8	3116.9	3052.4	3005.4	3008.4	2993.7	2943.9	2820.7	2600.8
22.5°	3128.6	3128.6	3102.2	3043.6	3014.2	3058.2	3023.0	3078.7	3026.0	2952.7	2770.9
25°	3046.5	3078.7	3064.1	3026.0	3037.7	3096.3	3113.9	3166.7	3157.9	3067.0	2888.2
27.5°	3134.5	3096.3	3105.1	3061.2	3105.1	3193.1	3201.9	3240.0	3237.1	3163.8	2993.7
30°	3193.1	3228.3	3160.8	3064.1	3111.0	3260.5	3254.7	3304.5	3328.0	3240.0	3093.4
32.5°	3380.8	3351.4	3295.7	3166.7	3172.6	3257.6	3284.0	3348.5	3363.2	3310.4	3190.2
35°	3764.9	3720.9	3477.5	3284.0	3254.7	3295.7	3313.3	3439.4	3465.8	3407.1	3292.8
37.5°	4357.2	4257.5	3964.2	3536.2	3404.2	3395.4	3395.4	3562.5	3662.2	3527.4	3445.3
40°	5204.5	5063.8	4747.1	4002.4	3600.7	3635.8	3671.0	3761.9	3750.2	3662.2	3644.6
42.5°	6283.6	6175.1	5832.0	4785.2	3976.0	3800.0	3770.7	3893.9	4078.6	4043.4	4031.7
45°	7183.7	7189.6	6969.7	5858.4	4624.0	4178.3	4198.8	4292.6	4603.5	4577.1	4574.1
47.5°	7840.5	7758.4	7726.2	6893.5	5568.1	4896.7	4867.3	4931.9	5336.5	5503.6	5579.9
50°	8438.7	8383.0	8306.7	7899.2	6702.9	5796.8	5767.5	5773.4	6392.1	6626.6	6814.3
52.5°	9180.5	9250.9	8998.7	8749.5	8171.9	6966.8	6934.5	6820.1	7588.4	7910.9	8133.7
55°	10095.3	9963.4	9679.0	9808.0	9576.4	8230.5	8171.9	8037.0	8951.8	9086.7	9321.3
57.5°	10297.7	10198.0	10491.2	10948.6	11171.4	9714.2	9690.7	9447.3	10098.3	9975.1	10637.8
60°	10802.0	10828.4	11235.9	12144.9	12531.9	11426.5	11312.2	10884.1	11209.6	11233.0	11939.7
62.5°	11321.0	11259.4	12171.3	13045.1	13640.3	13048.0	13009.9	12159.6	12529.0	12229.9	13165.3
65°	10939.8	11033.6	12338.4	13801.6	15077.0	14634.3	14602.0	13388.1	13590.5	13218.1	13663.8
67.5°	9585.2	9394.6	11221.3	13455.6	15815.9	16296.8	16261.6	14728.1	14188.6	13212.2	12628.7
70°	7025.4	6861.2	8350.7	11394.3	14757.4	17147.1	17287.9	15660.5	13945.2	11980.7	9743.5
72.5°	3442.3	3445.3	4679.7	7726.2	11675.8	15628.3	15698.7	14358.7	11980.7	8831.6	5518.3
75°	1017.5	1029.2	1732.9	3788.3	7547.3	11869.3	11948.5	10898.8	8303.8	4562.4	1882.4
77.5°	372.4	372.4	574.7	1422.1	3764.9	7491.6	7485.7	6691.1	4204.7	1545.2	439.8
80°	193.5	202.3	299.1	580.6	1630.3	3902.7	4049.3	3275.2	1598.0	650.9	129.0
82.5°	79.2	88.0	164.2	299.1	782.9	1369.3	1498.3	1284.3	694.9	454.5	58.6
85°	23.5	26.4	79.2	167.1	307.9	343.1	381.2	431.0	436.9	351.9	26.4
87.5°	2.9	2.9	32.3	55.7	67.4	73.3	85.0	85.0	222.8	246.3	14.7
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°	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7
2.5°	2014.4	1999.7	1976.3	1923.5	1911.8	1873.6	1870.7	1835.5	1847.2	1823.8	1815.0
5°	1999.7	1967.5	1903.0	1861.9	1820.9	1794.5	1776.9	1762.2	1759.3	1747.6	1741.7
7.5°	2026.1	1982.1	1882.4	1817.9	1747.6	1724.1	1686.0	1683.0	1662.5	1642.0	1642.0
10°	2114.1	2034.9	1926.4	1817.9	1727.0	1650.8	1562.8	1498.3	1474.9	1422.1	1428.0
12.5°	2184.4	2114.1	1955.7	1844.3	1706.5	1533.5	1340.0	1190.4	1120.1	1052.6	1079.0
15°	2284.1	2181.5	2011.4	1850.2	1627.3	1328.3	1011.6	844.5	779.9	765.3	762.4
17.5°	2392.6	2284.1	2081.8	1835.5	1466.1	1026.2	744.8	648.0	659.7	677.3	674.4
20°	2512.8	2380.9	2134.6	1785.7	1211.0	744.8	609.9	607.0	624.5	650.9	656.8
22.5°	2638.9	2524.6	2199.1	1636.1	903.1	598.2	586.4	586.4	598.2	630.4	624.5
25°	2779.7	2627.2	2231.4	1404.5	648.0	551.2	557.1	568.8	574.7	601.1	604.0
27.5°	2888.2	2741.5	2240.2	1125.9	527.8	510.2	524.9	539.5	548.3	568.8	577.6
30°	2987.8	2885.2	2193.2	838.6	483.8	475.0	480.9	501.4	519.0	536.6	536.6
32.5°	3113.9	2967.3	2084.7	595.2	457.4	442.8	439.8	448.6	469.1	489.7	489.7
35°	3242.9	3105.1	1911.8	477.9	434.0	413.4	401.7	392.9	401.7	416.4	428.1
37.5°	3430.6	3313.3	1694.8	439.8	416.4	387.0	363.6	343.1	328.4	325.5	334.3
40°	3697.4	3547.9	1416.2	413.4	395.8	360.7	325.5	290.3	258.0	237.5	240.4
42.5°	4102.1	3893.9	1114.2	398.8	381.2	331.3	281.5	231.6	190.6	170.1	170.1
45°	4679.7	4351.3	818.1	384.1	363.6	296.1	231.6	173.0	131.9	120.2	123.1
47.5°	5550.5	4902.5	586.4	360.7	340.1	258.0	181.8	123.1	96.8	90.9	93.8
50°	6688.2	5556.4	457.4	334.3	310.8	217.0	134.9	90.9	76.2	73.3	76.2
52.5°	7881.6	6216.1	401.7	310.8	266.8	173.0	99.7	73.3	64.5	61.6	64.5
55°	8902.0	6641.3	348.9	275.6	214.0	129.0	79.2	64.5	55.7	46.9	46.9
57.5°	9934.1	6855.3	275.6	228.7	158.3	96.8	67.4	55.7	46.9	38.1	35.2
60°	10772.7	7007.8	196.5	170.1	111.4	76.2	58.6	49.8	38.1	29.3	26.4
62.5°	11323.9	6570.9	143.7	129.0	82.1	64.5	49.8	41.0	29.3	20.5	20.5
65°	11051.2	5966.9	111.4	90.9	61.6	49.8	41.0	29.3	20.5	11.7	8.8
67.5°	9916.5	4861.5	90.9	67.4	46.9	38.1	32.3	23.5	11.7	2.9	2.9
70°	7397.8	3562.5	73.3	49.8	38.1	29.3	23.5	14.7	5.9	2.9	0.0
72.5°	4046.3	1949.9	58.6	41.0	29.3	23.5	17.6	11.7	5.9	0.0	0.0
75°	1337.1	519.0	44.0	29.3	17.6	14.7	11.7	8.8	2.9	0.0	0.0
77.5°	322.5	134.9	35.2	26.4	14.7	8.8	5.9	2.9	2.9	0.0	0.0
80°	99.7	55.7	26.4	17.6	11.7	8.8	2.9	0.0	0.0	0.0	0.0
82.5°	41.0	26.4	11.7	11.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0
85°	20.5	14.7	8.8	5.9	5.9	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	5.9	2.9	2.9	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)