

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: P482618

Luminaire Tested: **IFLD-S-SA6B-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482618
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

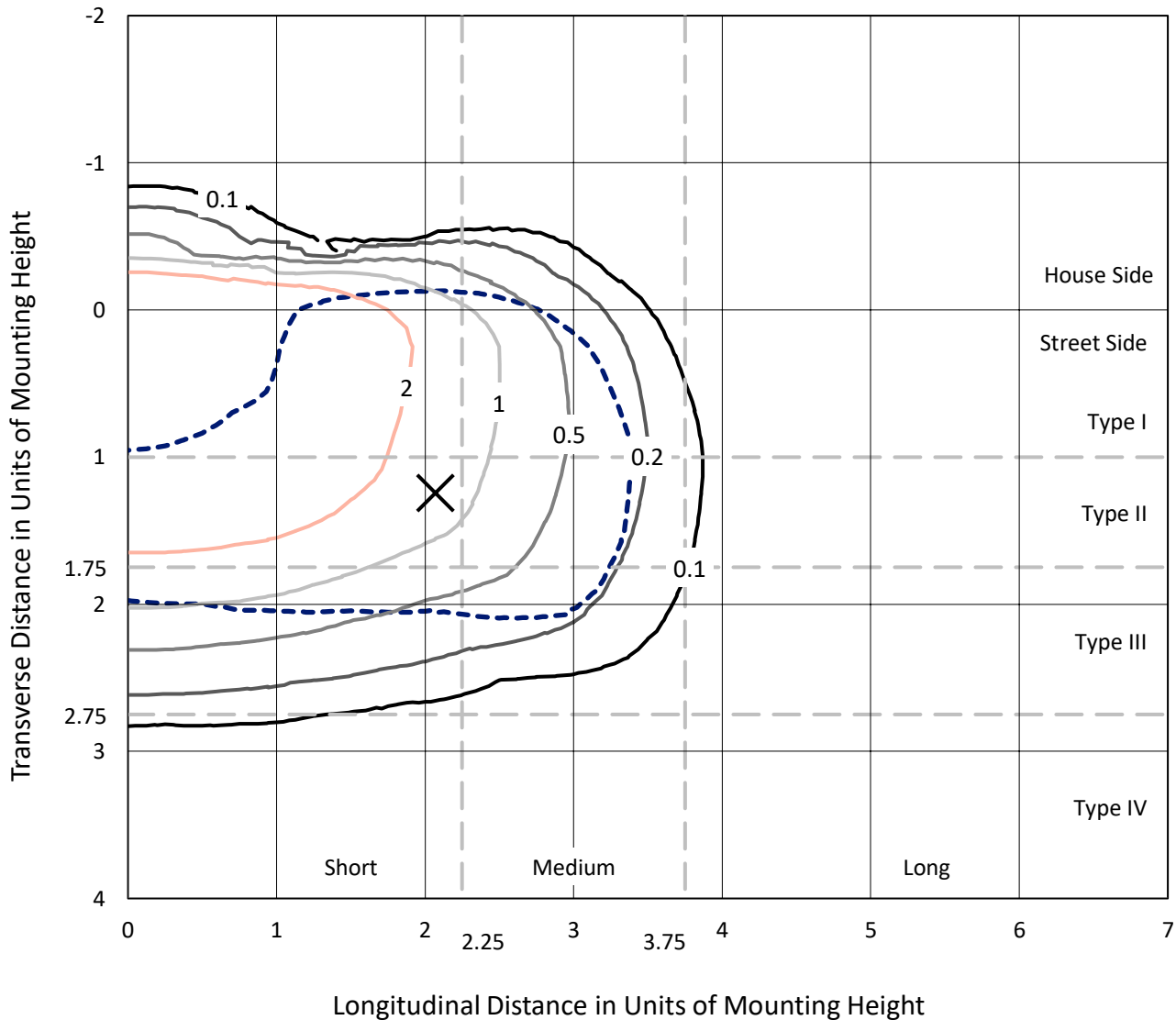
Lumens per Lamp: N/A
Luminaire Lumens: 19681.1 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (A_{in}): 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

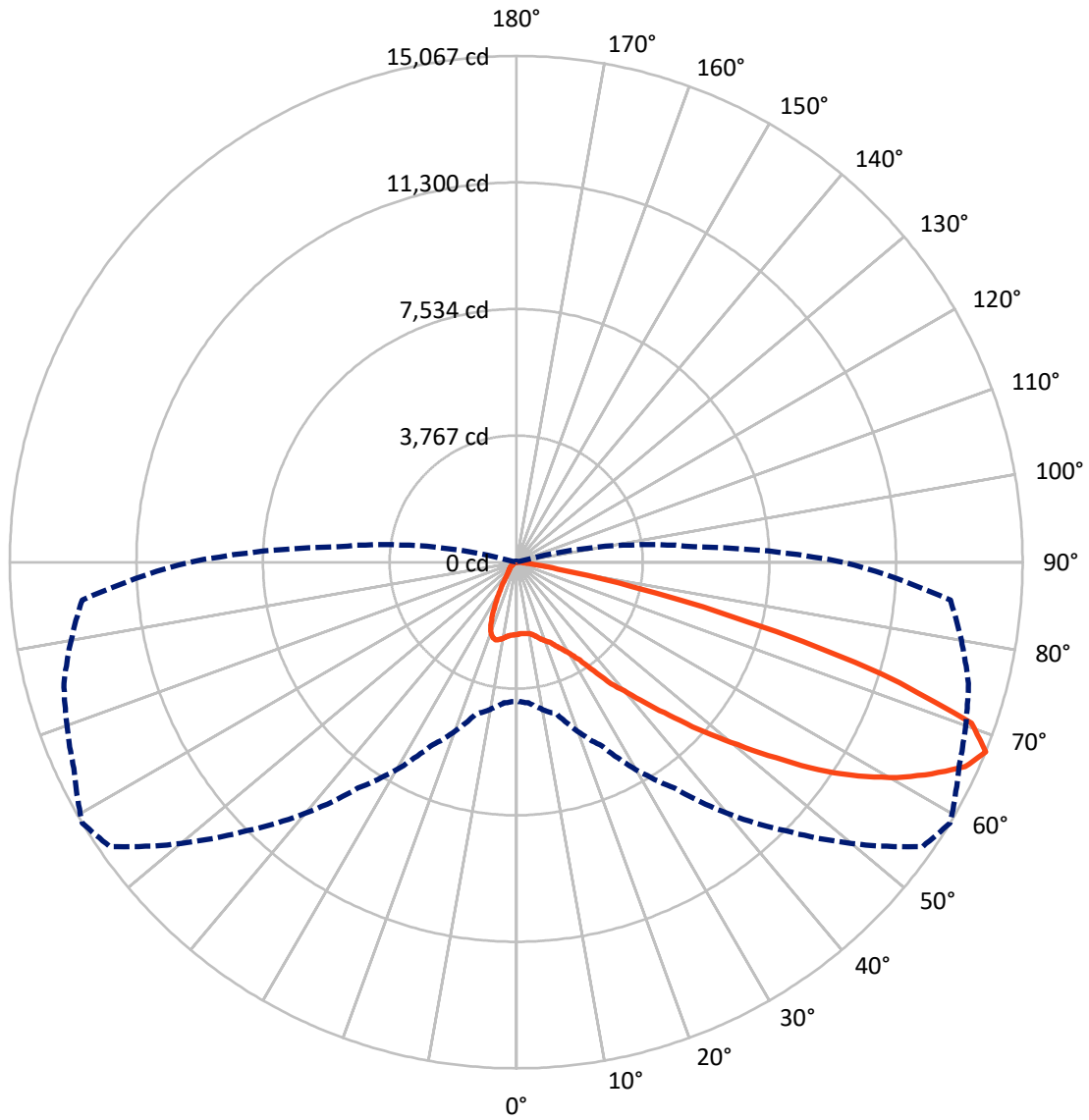
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2311.9	0.0	2311.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	17369.2	0.0	17369.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	19681.1	0.0	19681.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	1.0
10°-20°	592.3	3.0
20°-30°	1035.2	5.3
30°-40°	1822.6	9.3
40°-50°	3221.8	16.4
50°-60°	5101.2	25.9
60°-70°	5658.6	28.8
70°-80°	1963.4	10.0
80°-90°	80.9	0.4
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°	19681.1	100.0
0°-180°	19681.1	100.0

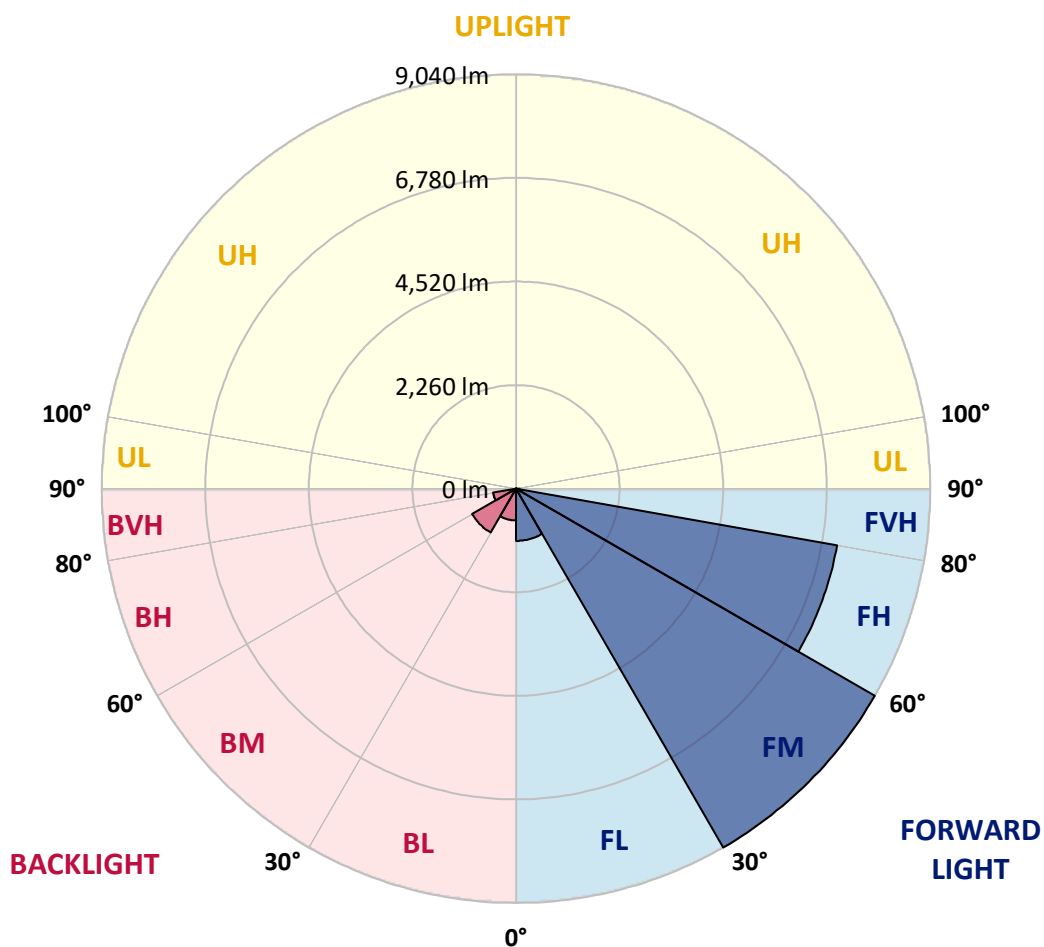


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.7	5.8			
FM (30°-60°)	9040.2	45.9			
FH (60°-80°)	7113.6	36.1			G3/7500
FVH (80°-90°)	75.6	0.4			G1/100
BL (0°-30°)	692.9	3.5	B2/1000		
BM (30°-60°)	1105.3	5.6	B2/2500		
BH (60°-80°)	508.4	2.6	B2/1000		G2/1000
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: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7
2.5°	2096.1	2066.2	2093.4	2096.1	2098.8	2123.3	2150.5	2131.5	2128.8	2150.5	2169.5
5°	2011.8	1998.3	2030.9	2047.2	2074.4	2096.1	2139.6	2142.3	2145.1	2169.5	2202.2
7.5°	1976.5	1943.9	1981.9	2001.0	2020.0	2071.7	2123.3	2150.5	2188.6	2218.5	2251.1
10°	1905.8	1930.3	1941.2	1973.8	2028.2	2088.0	2150.5	2164.1	2248.4	2272.8	2351.7
12.5°	1930.3	1946.6	1968.4	1976.5	2036.3	2126.0	2210.3	2215.8	2302.8	2408.8	2449.6
15°	1992.8	1981.9	1990.1	2001.0	2071.7	2145.1	2281.0	2305.5	2387.0	2506.7	2607.2
17.5°	2126.0	2107.0	2093.4	2090.7	2107.0	2175.0	2335.4	2408.8	2484.9	2648.0	2699.7
20°	2460.4	2444.1	2389.8	2248.4	2199.4	2226.6	2400.6	2503.9	2610.0	2792.1	2876.4
22.5°	2968.8	2985.1	2857.4	2658.9	2455.0	2349.0	2503.9	2593.7	2762.2	2993.3	3069.4
25°	3569.7	3537.0	3382.1	3151.0	2830.2	2580.1	2669.8	2770.4	2977.0	3167.3	3197.2
27.5°	4040.0	4001.9	3882.3	3602.3	3325.0	2919.9	2887.3	2949.8	3194.5	3365.8	3333.1
30°	4504.9	4518.5	4436.9	4105.3	3762.7	3335.9	3129.2	3156.4	3344.0	3564.2	3490.8
32.5°	5097.6	5065.0	5018.7	4727.8	4322.8	3866.0	3512.6	3469.1	3550.6	3841.5	3754.5
35°	5649.5	5630.5	5567.9	5274.3	4920.9	4423.4	4078.1	3980.2	3961.2	4284.7	4132.4
37.5°	6130.7	6098.1	6002.9	5815.3	5472.8	5054.1	4676.2	4589.2	4586.5	4809.4	4515.8
40°	6535.8	6560.3	6549.4	6342.8	6155.2	5820.8	5241.7	5103.0	5092.2	5211.8	5040.5
42.5°	7060.5	7117.6	7087.7	7046.9	6821.3	6690.8	6035.5	5823.5	5728.3	5973.0	5818.1
45°	7854.4	7876.1	7895.2	7794.6	7568.9	7596.1	6856.6	6603.8	6579.3	6943.6	6595.6
47.5°	8596.6	8539.5	8672.7	8678.1	8667.3	8542.2	7742.9	7555.3	7587.9	7865.2	7506.4
50°	8781.5	8928.3	9295.3	9363.3	9540.0	9654.2	8727.1	8539.5	8593.9	8909.2	8498.7
52.5°	8925.5	9148.5	9515.5	10013.0	10488.8	10760.7	9828.2	9675.9	9673.2	9866.2	9300.7
55°	9178.4	9314.3	9632.4	10317.5	11222.9	11668.7	11154.9	10910.2	10690.0	10825.9	10132.7
57.5°	9153.9	9205.6	9700.4	10545.9	11804.7	12614.8	12245.1	12011.3	11728.5	11649.7	11089.6
60°	8724.4	8846.7	9401.3	10390.9	12163.5	13351.6	13261.9	13022.6	12536.0	12351.1	11823.7
62.5°	7873.4	8036.5	8471.5	9847.2	11641.5	13389.7	13963.3	13873.6	13329.9	12998.2	12780.7
65°	6380.8	6456.9	6957.2	8466.1	10461.6	12805.2	14792.5	14681.1	14180.8	13686.0	13272.8
67.5°	4132.4	4205.9	4687.1	6043.7	8216.0	11296.3	14759.9	15067.1	14526.1	13930.7	12965.6
70°	1952.0	1933.0	2381.6	3357.6	5263.4	8626.5	13762.1	14368.4	13908.9	12628.4	10768.8
72.5°	595.4	647.1	989.6	1487.1	2702.4	5380.3	10787.9	11356.1	11212.0	10089.2	7188.3
75°	263.7	285.5	388.8	609.0	1095.6	2207.6	6663.6	7169.3	7106.7	5951.3	3281.5
77.5°	168.6	184.9	244.7	348.0	497.5	701.4	3069.4	3561.5	3452.8	2090.7	859.1
80°	119.6	127.8	174.0	239.2	312.7	288.2	1057.6	1256.0	1204.4	568.2	231.1
82.5°	65.2	70.7	127.8	176.7	209.3	146.8	296.3	369.7	386.1	252.8	111.5
85°	24.5	29.9	78.8	125.1	108.7	68.0	87.0	106.0	138.7	138.7	51.7
87.5°	0.0	2.7	32.6	54.4	27.2	19.0	24.5	29.9	38.1	65.2	19.0
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°	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7	2158.7
2.5°	2183.1	2164.1	2172.3	2185.8	2155.9	2172.3	2139.6	2164.1	2172.3	2139.6	2155.9
5°	2210.3	2229.3	2218.5	2196.7	2177.7	2183.1	2175.0	2155.9	2172.3	2177.7	2166.8
7.5°	2289.2	2267.4	2272.8	2248.4	2210.3	2207.6	2155.9	2142.3	2147.8	2153.2	2134.2
10°	2362.6	2376.2	2349.0	2329.9	2267.4	2226.6	2155.9	2079.8	2071.7	2039.0	2066.2
12.5°	2493.1	2460.4	2449.6	2387.0	2324.5	2188.6	2036.3	1919.4	1821.5	1786.2	1750.9
15°	2601.8	2596.4	2577.3	2482.2	2338.1	2090.7	1802.5	1530.6	1343.0	1226.1	1209.8
17.5°	2751.3	2726.9	2691.5	2542.0	2237.5	1835.1	1343.0	1000.5	812.9	739.5	712.3
20°	2865.5	2846.5	2797.6	2528.4	2055.3	1367.5	831.9	636.2	590.0	576.4	579.1
22.5°	3031.4	2971.6	2879.1	2460.4	1723.7	910.8	598.1	568.2	560.1	549.2	551.9
25°	3175.5	3121.1	2928.1	2343.5	1228.9	603.6	554.6	538.3	524.7	511.1	508.4
27.5°	3303.2	3235.3	2979.7	2104.3	769.4	519.3	513.8	494.8	467.6	445.9	437.7
30°	3428.3	3349.5	2993.3	1655.7	519.3	470.3	456.7	426.8	391.5	361.6	356.2
32.5°	3637.6	3542.5	2974.3	1182.6	448.6	418.7	388.8	353.4	301.8	277.3	271.9
35°	3963.9	3819.8	2949.8	696.0	402.4	369.7	323.5	277.3	239.2	214.8	209.3
37.5°	4339.1	4088.9	2879.1	464.9	369.7	326.2	266.4	220.2	187.6	168.6	163.1
40°	4896.4	4483.2	2607.2	380.6	329.0	277.3	214.8	174.0	149.5	135.9	130.5
42.5°	5510.8	4934.5	2188.6	342.6	290.9	236.5	171.3	141.4	122.3	108.7	108.7
45°	6247.6	5404.8	1688.3	312.7	258.3	195.7	141.4	114.2	97.9	87.0	81.6
47.5°	7068.7	5831.6	1139.1	282.7	217.5	160.4	116.9	87.0	70.7	62.5	62.5
50°	7802.7	6209.5	725.9	247.4	190.3	133.2	95.2	70.7	57.1	46.2	43.5
52.5°	8468.8	6497.7	500.2	217.5	163.1	108.7	78.8	57.1	43.5	35.3	35.3
55°	9151.2	6644.5	369.7	187.6	141.4	92.4	65.2	51.7	38.1	29.9	27.2
57.5°	9711.3	6707.1	282.7	163.1	119.6	73.4	57.1	43.5	32.6	24.5	21.7
60°	10189.7	6677.2	220.2	135.9	95.2	62.5	48.9	35.3	27.2	19.0	16.3
62.5°	10469.8	6497.7	174.0	116.9	76.1	54.4	40.8	29.9	19.0	13.6	10.9
65°	10475.2	6117.1	135.9	87.0	57.1	46.2	35.3	24.5	13.6	5.4	2.7
67.5°	9724.8	5293.3	108.7	68.0	46.2	35.3	27.2	19.0	5.4	0.0	0.0
70°	7607.0	4004.7	89.7	54.4	38.1	29.9	19.0	10.9	2.7	0.0	0.0
72.5°	4847.5	2397.9	73.4	43.5	32.6	21.7	13.6	8.2	0.0	0.0	0.0
75°	2028.2	739.5	57.1	38.1	24.5	16.3	10.9	2.7	0.0	0.0	0.0
77.5°	522.0	233.8	46.2	32.6	24.5	13.6	8.2	2.7	0.0	0.0	0.0
80°	155.0	87.0	38.1	27.2	19.0	10.9	5.4	2.7	0.0	0.0	0.0
82.5°	70.7	51.7	32.6	24.5	16.3	10.9	5.4	0.0	0.0	0.0	0.0
85°	27.2	16.3	16.3	13.6	13.6	8.2	2.7	0.0	0.0	0.0	0.0
87.5°	10.9	5.4	5.4	5.4	2.7	2.7	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)