

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: P483408

Luminaire Tested: **IFLD-L-SA7B-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483408
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

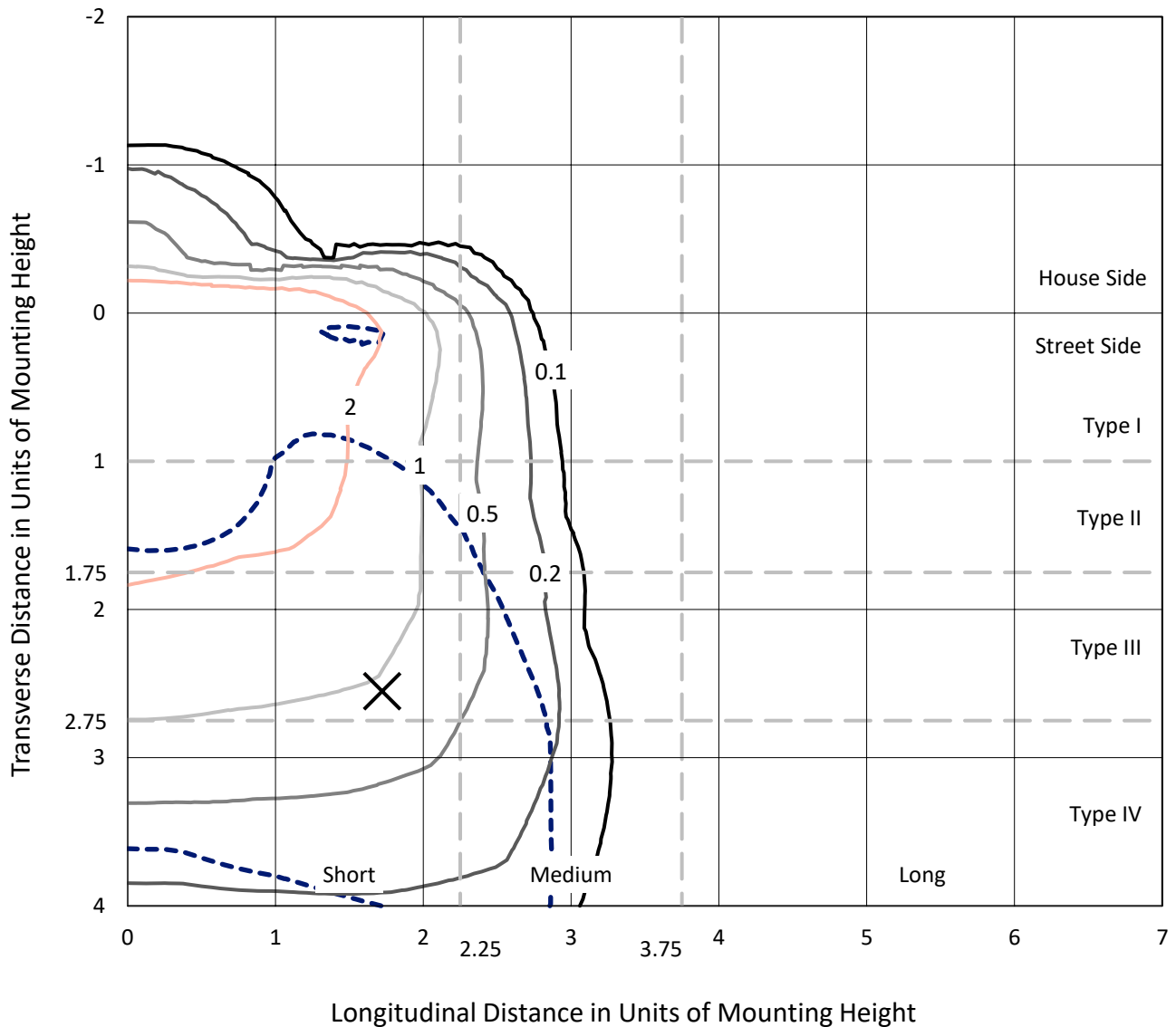
Lumens per Lamp: N/A
Luminaire Lumens: 20461.5 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

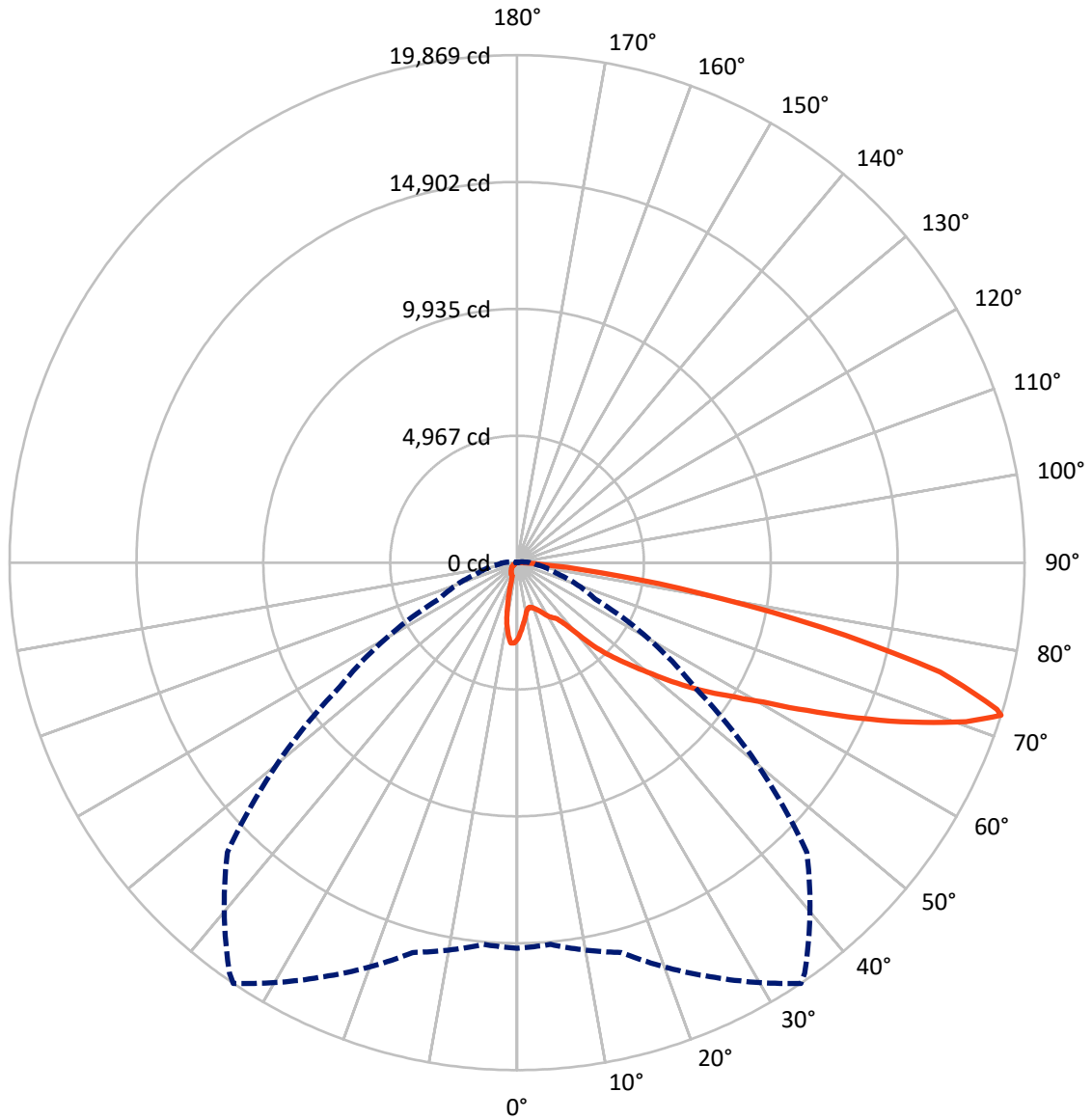
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2094.8	0.0	2094.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	18366.7	0.0	18366.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	20461.5	0.0	20461.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	1.3
10°-20°	588.3	2.9
20°-30°	888.0	4.3
30°-40°	1441.1	7.0
40°-50°	2709.9	13.2
50°-60°	4430.7	21.7
60°-70°	5890.0	28.8
70°-80°	3944.5	19.3
80°-90°	309.1	1.5
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°	20461.5	100.0
0°-180°	20461.5	100.0

Coefficient of Utilization

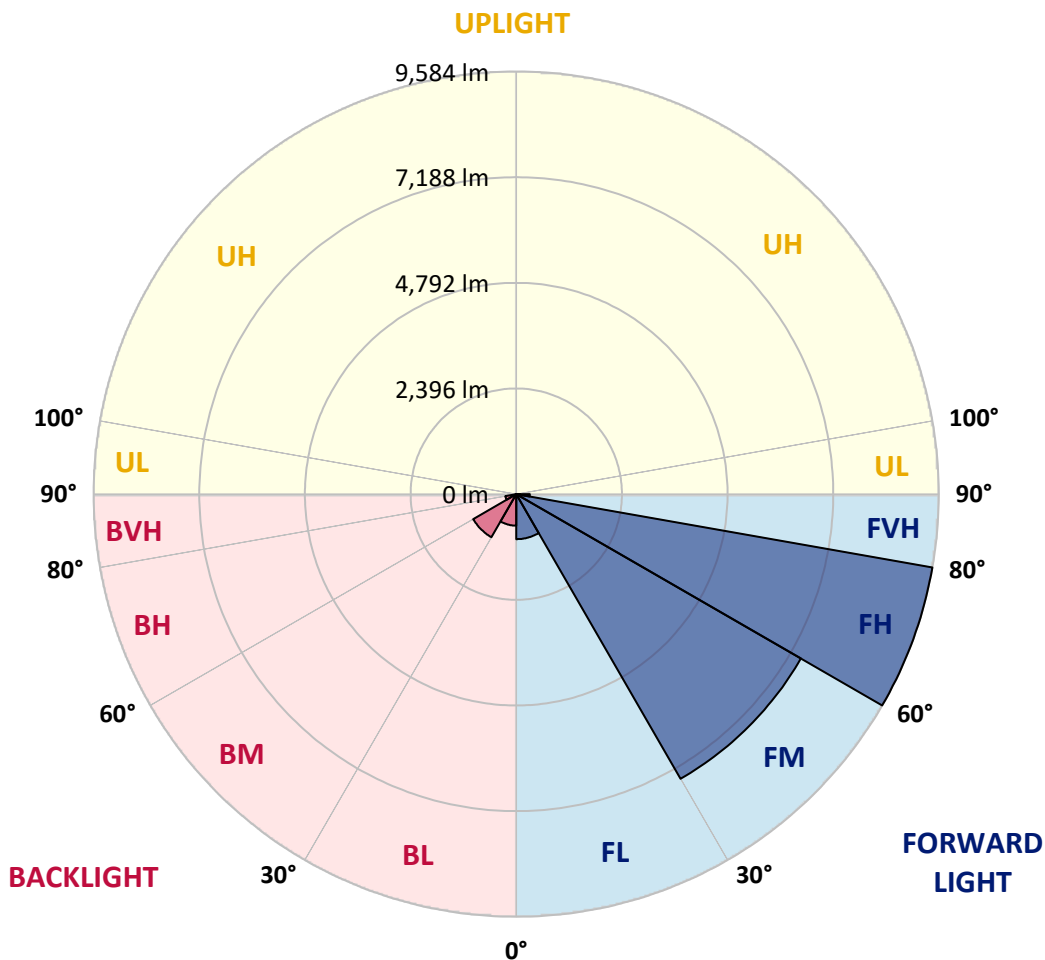


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.5	5.0			
FM (30°-60°)	7454.1	36.4			
FH (60°-80°)	9584.0	46.8			G4/12000
FVH (80°-90°)	307.2	1.5			G3/500
BL (0°-30°)	714.7	3.5	B2/1000		
BM (30°-60°)	1127.6	5.5	B2/2500		
BH (60°-80°)	250.5	1.2	B1/500		G1/500
BVH (80°-90°)	2.0	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°	34°	35°	45°	55°	65°	75°	85°
0°	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5
2.5°	2647.4	2641.5	2659.3	2688.9	2718.4	2706.6	2762.8	2822.0	2863.4	2919.6	2987.6
5°	2313.2	2328.0	2345.7	2404.9	2443.3	2452.2	2555.7	2632.6	2759.8	2890.0	3011.3
7.5°	2008.5	2026.3	2061.7	2126.8	2206.7	2227.4	2330.9	2484.7	2650.4	2822.0	3020.2
10°	1786.7	1804.4	1842.9	1884.3	1990.8	1990.8	2132.7	2345.7	2561.7	2762.8	3023.1
12.5°	1739.3	1748.2	1745.2	1777.8	1845.8	1860.6	1999.6	2233.3	2484.7	2742.1	3070.4
15°	1795.5	1801.4	1771.9	1754.1	1813.3	1828.1	1958.2	2165.3	2434.5	2753.9	3147.3
17.5°	1907.9	1887.2	1828.1	1801.4	1851.7	1860.6	1981.9	2162.3	2428.5	2786.5	3236.1
20°	1973.0	1996.7	1893.1	1842.9	1913.8	1925.7	2055.8	2209.7	2458.1	2842.7	3360.3
22.5°	2088.4	2100.2	1961.2	1928.6	1996.7	1996.7	2144.6	2304.3	2529.1	2934.4	3508.2
25°	2251.1	2236.3	2073.6	2041.0	2106.1	2132.7	2280.6	2455.2	2638.6	3020.2	3644.3
27.5°	2378.3	2387.1	2254.0	2168.2	2277.7	2295.4	2455.2	2617.9	2721.4	3091.1	3809.9
30°	2567.6	2549.8	2407.8	2310.2	2446.3	2449.3	2603.1	2771.7	2881.1	3218.3	4058.4
32.5°	2792.4	2756.9	2594.2	2455.2	2564.6	2591.2	2748.0	2993.5	3129.6	3457.9	4443.0
35°	3268.6	3182.8	2916.6	2700.7	2709.6	2721.4	2963.9	3316.0	3472.7	3762.6	4957.7
37.5°	3963.8	3928.3	3626.5	3215.4	3058.6	3023.1	3295.2	3741.9	3937.1	4164.9	5626.2
40°	4653.0	4602.7	4321.7	4011.1	3727.1	3656.1	3792.2	4306.9	4484.4	4724.0	6312.4
42.5°	5419.1	5330.4	4999.1	4747.6	4570.2	4493.3	4440.0	5016.8	5218.0	5380.7	6983.9
45°	6194.1	6049.2	5570.0	5377.7	5283.0	5241.6	5235.7	5910.1	6031.4	6064.0	7729.3
47.5°	6874.5	6717.7	6282.9	6066.9	5995.9	5984.1	6315.4	6939.5	6844.9	6759.1	8560.5
50°	7398.0	7297.5	6983.9	6907.0	6853.8	6833.1	7608.1	7998.5	7560.7	7409.9	9291.2
52.5°	8208.5	7983.7	7628.8	7655.4	7841.7	7844.7	8918.5	9004.3	8155.3	7856.5	9980.4
55°	8856.4	8708.4	8418.6	8380.1	8871.1	8924.4	10092.8	9767.4	8486.6	8282.5	10234.8
57.5°	9619.5	9551.5	9341.5	9347.4	9862.1	9974.5	11137.0	10412.3	8761.7	8557.6	10273.2
60°	10722.9	10527.6	10418.2	10468.5	11074.9	11184.3	12148.6	10876.7	8894.8	8738.0	10178.6
62.5°	11941.6	11713.8	11595.5	11852.8	12737.3	12755.0	12917.7	11287.9	8812.0	8785.4	9569.2
65°	13408.8	13184.0	13089.3	13607.0	14657.1	14592.0	13997.4	11462.4	8548.7	8309.1	7968.9
67.5°	14870.0	14734.0	14538.7	15364.0	16671.5	16671.5	15118.5	11397.3	7859.5	6670.4	5212.1
70°	15562.2	15656.9	15967.5	17263.1	18650.4	18508.4	16224.8	10648.9	5851.0	3582.2	2049.9
72°	15100.8	15003.1	15804.8	17884.3	19869.1	19635.4	16038.5	8465.9	3381.0	1570.7	712.9
72.5°	14308.0	14399.7	15503.0	17798.5	19641.3	19833.6	15582.9	7809.2	2780.6	1251.2	538.4
75°	8773.5	8930.3	11571.8	15112.6	17115.2	16899.2	12054.0	3721.2	1067.8	532.4	192.3
77.5°	3203.5	3333.7	5614.3	9510.1	12172.3	12036.2	6975.0	1322.2	579.8	396.4	97.6
80°	834.2	902.2	1907.9	4386.8	7158.4	7167.3	2919.6	529.5	393.4	325.4	59.2
82.5°	165.6	183.4	585.7	1706.8	3345.5	3301.2	922.9	284.0	295.8	266.2	41.4
85°	20.7	26.6	124.2	579.8	1082.6	970.2	227.8	142.0	218.9	207.1	26.6
87.5°	3.0	3.0	29.6	133.1	227.8	221.9	47.3	44.4	97.6	127.2	14.8
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°	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5	2993.5
2.5°	3026.1	3037.9	3079.3	3114.8	3156.2	3168.1	3150.3	3179.9	3138.5	3162.1	3168.1
5°	3032.0	3100.0	3176.9	3227.2	3215.4	3185.8	3162.1	3082.3	3026.1	3005.4	3049.7
7.5°	3073.4	3150.3	3233.1	3233.1	3168.1	3014.2	2866.3	2724.3	2606.0	2546.9	2597.2
10°	3126.6	3206.5	3292.3	3179.9	2937.3	2656.3	2446.3	2180.1	1999.6	1905.0	1913.8
12.5°	3197.6	3310.0	3339.6	3079.3	2677.0	2259.9	1878.4	1508.6	1337.0	1201.0	1203.9
15°	3289.3	3398.8	3310.0	2860.4	2345.7	1730.4	1272.0	919.9	783.9	712.9	712.9
17.5°	3410.6	3493.4	3301.2	2659.3	1899.1	1183.2	780.9	621.2	591.6	579.8	579.8
20°	3552.6	3614.7	3215.4	2345.7	1411.0	760.2	573.9	556.1	559.1	553.2	553.2
22.5°	3712.3	3733.0	3117.8	1981.9	955.4	562.0	535.4	538.4	541.3	535.4	538.4
25°	3880.9	3824.7	2975.8	1555.9	636.0	511.7	517.7	523.6	526.5	529.5	529.5
27.5°	4070.3	3957.8	2777.6	1138.8	496.9	482.2	499.9	517.7	520.6	520.6	517.7
30°	4348.3	4162.0	2585.3	772.0	437.8	449.6	479.2	499.9	514.7	514.7	511.7
32.5°	4700.3	4374.9	2316.1	526.5	405.3	411.2	434.8	476.2	508.8	511.7	502.9
35°	5188.4	4632.3	2035.1	420.0	381.6	384.5	399.3	431.9	488.1	505.8	502.9
37.5°	5703.1	4925.1	1686.1	378.6	363.8	360.9	369.8	396.4	446.7	491.0	494.0
40°	6250.3	5232.8	1319.3	357.9	349.0	343.1	346.1	357.9	396.4	452.6	464.4
42.5°	6765.0	5510.8	990.9	337.2	334.3	328.3	328.3	331.3	352.0	390.5	396.4
45°	7321.1	5738.6	754.3	322.4	313.6	316.5	304.7	298.8	313.6	316.5	313.6
47.5°	7841.7	5966.4	603.4	304.7	295.8	295.8	281.0	269.2	269.2	242.6	239.6
50°	8329.8	6090.6	482.2	281.0	278.1	275.1	254.4	233.7	215.9	183.4	177.5
52.5°	8735.1	6084.7	372.7	251.4	260.3	251.4	218.9	189.3	162.7	133.1	127.2
55°	8856.4	5800.7	281.0	207.1	221.9	210.0	174.5	147.9	118.3	94.7	91.7
57.5°	8752.8	5368.8	213.0	159.7	171.6	159.7	133.1	109.4	82.8	65.1	59.2
60°	8406.7	4863.0	165.6	124.2	130.2	121.3	100.6	82.8	59.2	41.4	35.5
62.5°	7750.0	4230.0	127.2	97.6	94.7	94.7	76.9	62.1	41.4	23.7	20.7
65°	6359.8	3298.2	97.6	68.0	68.0	68.0	59.2	44.4	26.6	11.8	5.9
67.5°	3993.3	1919.8	79.9	53.2	50.3	50.3	41.4	29.6	14.8	3.0	0.0
70°	1502.7	704.0	62.1	41.4	38.5	38.5	29.6	17.7	8.9	0.0	0.0
72°	517.7	269.2	50.3	29.6	29.6	26.6	20.7	14.8	5.9	0.0	0.0
72.5°	426.0	215.9	47.3	29.6	26.6	26.6	20.7	14.8	5.9	0.0	0.0
75°	153.8	88.7	32.5	20.7	17.7	17.7	14.8	8.9	3.0	0.0	0.0
77.5°	76.9	56.2	26.6	17.7	14.8	8.9	8.9	5.9	3.0	0.0	0.0
80°	47.3	35.5	14.8	11.8	8.9	5.9	3.0	3.0	0.0	0.0	0.0
82.5°	32.5	20.7	8.9	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
85°	20.7	8.9	5.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	5.9	3.0	0.0	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)