

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: P483399

Luminaire Tested: **IFLD-S-SA6C-830-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483399
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

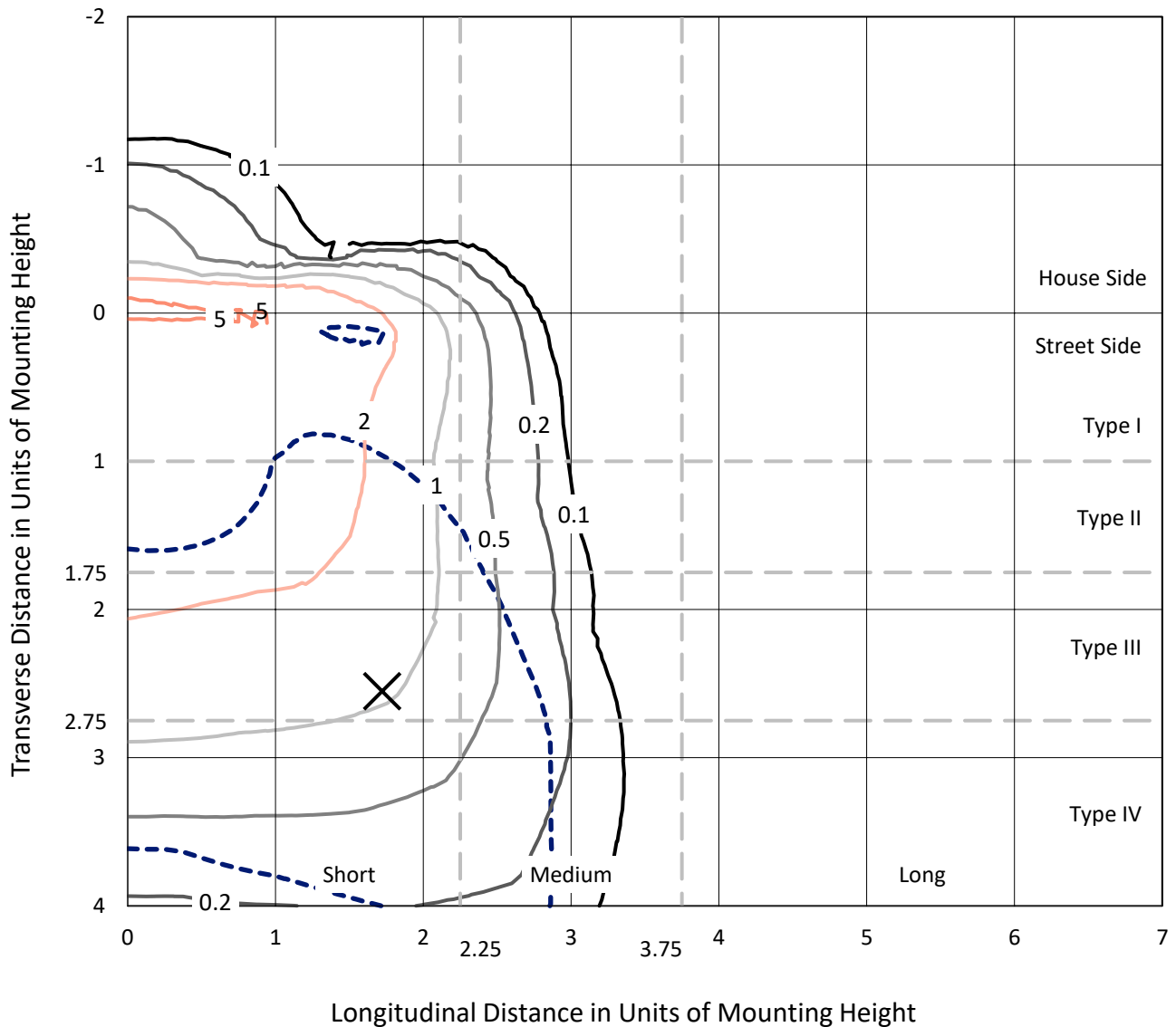
Lumens per Lamp: N/A
Luminaire Lumens: 23874.3 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

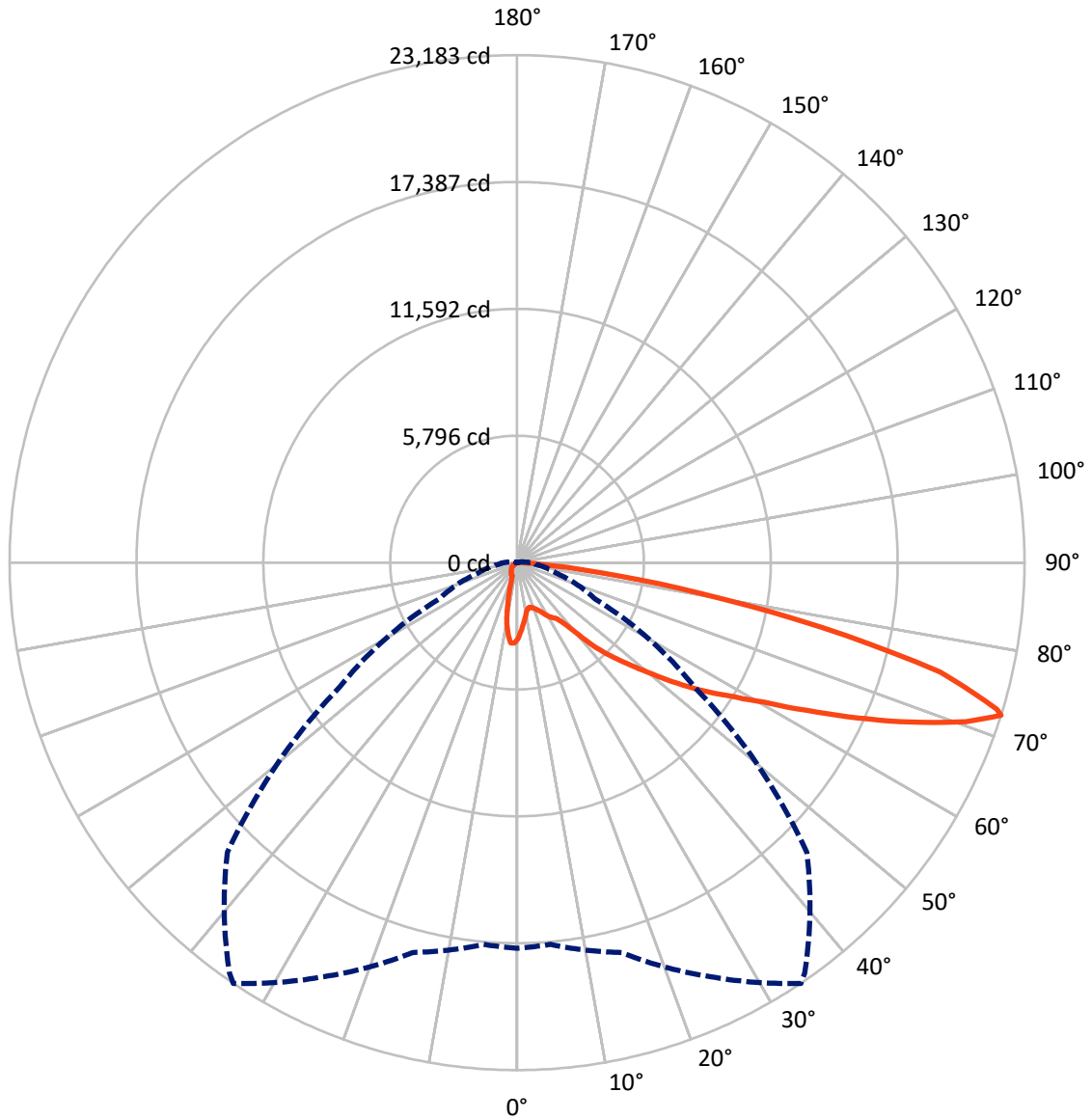
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2444.2	0.0	2444.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	21430.1	0.0	21430.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	23874.3	0.0	23874.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	1.3
10°-20°	686.5	2.9
20°-30°	1036.1	4.3
30°-40°	1681.4	7.0
40°-50°	3161.9	13.2
50°-60°	5169.7	21.7
60°-70°	6872.4	28.8
70°-80°	4602.4	19.3
80°-90°	360.7	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°	23874.3	100.0
0°-180°	23874.3	100.0



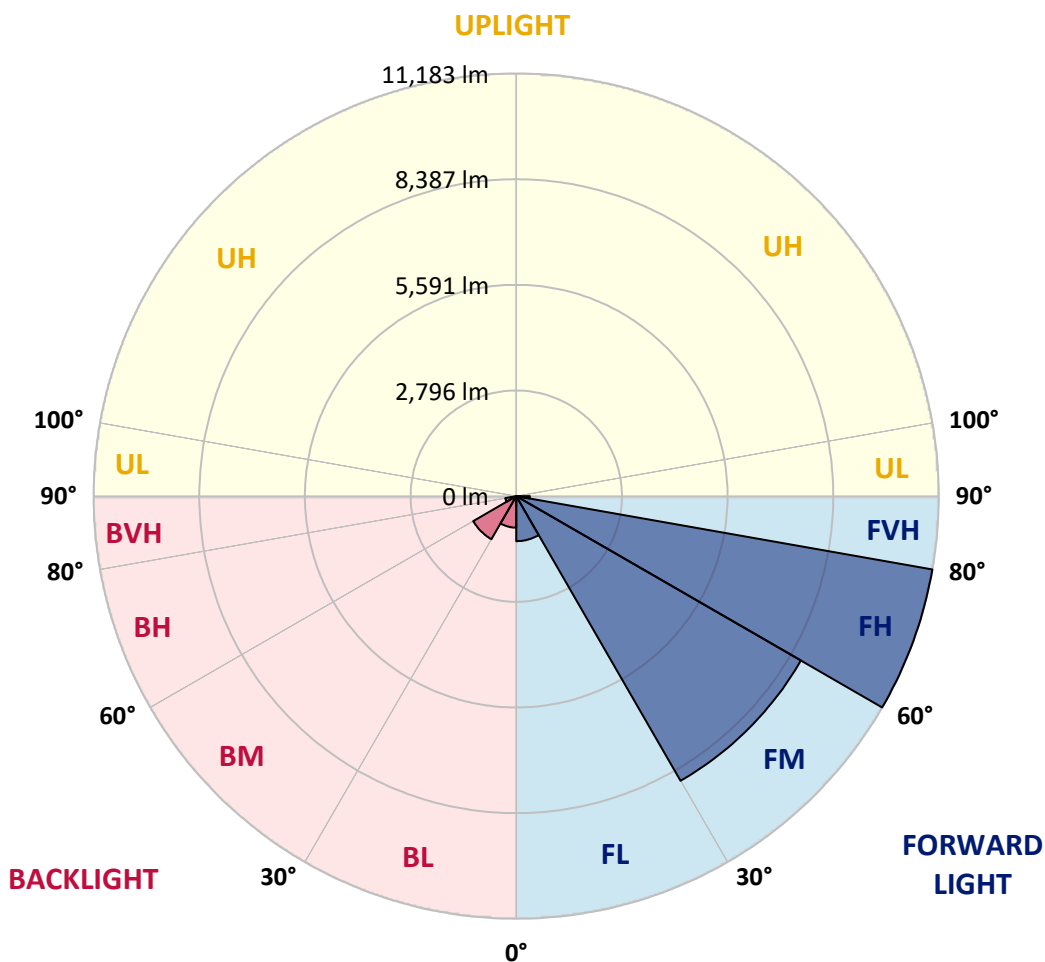
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.8	5.0			
FM (30°-60°)	8697.3	36.4			
FH (60°-80°)	11182.5	46.8			G4/12000
FVH (80°-90°)	358.4	1.5			G3/500
BL (0°-30°)	833.9	3.5	B2/1000		
BM (30°-60°)	1315.7	5.5	B2/2500		
BH (60°-80°)	292.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	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°	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8
2.5°	3089.0	3082.1	3102.8	3137.3	3171.8	3158.0	3223.6	3292.6	3341.0	3406.5	3485.9
5°	2699.0	2716.3	2737.0	2806.0	2850.9	2861.2	2982.0	3071.7	3220.2	3372.0	3513.5
7.5°	2343.5	2364.2	2405.6	2481.6	2574.7	2598.9	2719.7	2899.2	3092.5	3292.6	3523.9
10°	2084.6	2105.4	2150.2	2198.5	2322.8	2322.8	2488.5	2737.0	2988.9	3223.6	3527.3
12.5°	2029.4	2039.8	2036.3	2074.3	2153.7	2170.9	2333.1	2605.8	2899.2	3199.5	3582.6
15°	2095.0	2101.9	2067.4	2046.7	2115.7	2133.0	2284.8	2526.4	2840.5	3213.3	3672.3
17.5°	2226.2	2202.0	2133.0	2101.9	2160.6	2170.9	2312.4	2523.0	2833.6	3251.2	3775.8
20°	2302.1	2329.7	2208.9	2150.2	2233.1	2246.9	2398.7	2578.2	2868.1	3316.8	3920.8
22.5°	2436.7	2450.5	2288.3	2250.3	2329.7	2329.7	2502.3	2688.6	2950.9	3423.8	4093.4
25°	2626.5	2609.3	2419.4	2381.5	2457.4	2488.5	2661.0	2864.7	3078.7	3523.9	4252.1
27.5°	2774.9	2785.3	2630.0	2529.9	2657.6	2678.3	2864.7	3054.5	3175.3	3606.7	4445.4
30°	2995.8	2975.1	2809.4	2695.5	2854.3	2857.8	3037.2	3234.0	3361.7	3755.1	4735.3
32.5°	3258.1	3216.7	3026.9	2864.7	2992.4	3023.4	3206.4	3492.8	3651.6	4034.7	5184.0
35°	3813.8	3713.7	3403.1	3151.1	3161.5	3175.3	3458.3	3869.0	4051.9	4390.2	5784.6
37.5°	4624.9	4583.5	4231.4	3751.7	3568.8	3527.3	3844.9	4366.0	4593.8	4859.6	6564.6
40°	5429.1	5370.4	5042.5	4680.1	4348.8	4265.9	4424.7	5025.2	5232.3	5511.9	7365.3
42.5°	6323.0	6219.4	5832.9	5539.5	5332.4	5242.7	5180.6	5853.6	6088.3	6278.1	8148.8
45°	7227.2	7058.1	6499.0	6274.7	6164.2	6115.9	6109.0	6895.9	7037.4	7075.4	9018.5
47.5°	8021.1	7838.1	7330.8	7078.8	6996.0	6982.2	7368.7	8097.0	7986.5	7886.5	9988.4
50°	8632.0	8514.6	8148.8	8059.0	7996.9	7972.7	8877.0	9332.6	8821.8	8645.8	10840.9
52.5°	9577.6	9315.3	8901.2	8932.2	9149.7	9153.1	10406.0	10506.1	9515.5	9166.9	11645.0
55°	10333.5	10160.9	9822.7	9777.8	10350.8	10412.9	11776.2	11396.5	9902.1	9663.9	11941.9
57.5°	11224.0	11144.6	10899.5	10906.4	11507.0	11638.1	12994.5	12148.9	10223.1	9984.9	11986.7
60°	12511.3	12283.5	12155.8	12214.5	12922.1	13049.8	14174.9	12690.8	10378.4	10195.4	11876.3
62.5°	13933.3	13667.6	13529.5	13829.8	14861.7	14882.5	15072.3	13170.6	10281.7	10250.7	11165.3
65°	15645.2	15382.9	15272.5	15876.5	17101.7	17025.8	16332.0	13374.2	9974.6	9695.0	9298.1
67.5°	17350.2	17191.4	16963.6	17926.6	19452.1	19452.1	17640.1	13298.3	9170.4	7782.9	6081.4
70°	18157.8	18268.3	18630.7	20142.4	21761.1	21595.4	18930.9	12425.1	6826.9	4179.6	2391.8
72°	17619.4	17505.5	18440.8	20867.2	23183.1	22910.4	18713.5	9877.9	3945.0	1832.7	831.8
72.5°	16694.4	16801.4	18088.8	20767.1	22917.3	23141.7	18182.0	9111.7	3244.3	1459.9	628.2
75°	10236.9	10419.8	13501.9	17633.2	19969.8	19717.9	14064.5	4341.9	1246.0	621.3	224.3
77.5°	3737.9	3889.7	6550.8	11096.3	14202.5	14043.8	8138.4	1542.8	676.5	462.5	113.9
80°	973.3	1052.7	2226.2	5118.4	8352.4	8362.7	3406.5	617.8	459.0	379.7	69.0
82.5°	193.3	214.0	683.4	1991.5	3903.5	3851.8	1076.8	331.3	345.1	310.6	48.3
85°	24.2	31.1	145.0	676.5	1263.2	1132.1	265.8	165.7	255.4	241.6	31.1
87.5°	3.5	3.5	34.5	155.3	265.8	258.9	55.2	51.8	113.9	148.4	17.3
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°	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8	3492.8
2.5°	3530.8	3544.6	3592.9	3634.3	3682.6	3696.5	3675.7	3710.3	3661.9	3689.5	3696.5
5°	3537.7	3617.1	3706.8	3765.5	3751.7	3717.2	3689.5	3596.4	3530.8	3506.6	3558.4
7.5°	3586.0	3675.7	3772.4	3772.4	3696.5	3517.0	3344.4	3178.7	3040.7	2971.7	3030.3
10°	3648.1	3741.3	3841.4	3710.3	3427.2	3099.4	2854.3	2543.7	2333.1	2222.7	2233.1
12.5°	3731.0	3862.1	3896.6	3592.9	3123.5	2636.9	2191.6	1760.2	1560.0	1401.3	1404.7
15°	3838.0	3965.7	3862.1	3337.5	2737.0	2019.1	1484.1	1073.4	914.6	831.8	831.8
17.5°	3979.5	4076.1	3851.8	3102.8	2215.8	1380.6	911.2	724.8	690.3	676.5	676.5
20°	4145.1	4217.6	3751.7	2737.0	1646.3	887.0	669.6	648.9	652.3	645.4	645.4
22.5°	4331.5	4355.7	3637.8	2312.4	1114.8	655.8	624.7	628.2	631.6	624.7	628.2
25°	4528.2	4462.7	3472.1	1815.4	742.1	597.1	604.0	610.9	614.3	617.8	617.8
27.5°	4749.1	4618.0	3240.9	1328.8	579.8	562.6	583.3	604.0	607.4	607.4	604.0
30°	5073.6	4856.1	3016.5	900.8	510.8	524.6	559.1	583.3	600.5	600.5	597.1
32.5°	5484.3	5104.6	2702.4	614.3	472.8	479.7	507.4	555.7	593.6	597.1	586.7
35°	6053.8	5404.9	2374.6	490.1	445.2	448.7	465.9	503.9	569.5	590.2	586.7
37.5°	6654.3	5746.6	1967.3	441.8	424.5	421.1	431.4	462.5	521.2	572.9	576.4
40°	7292.8	6105.5	1539.3	417.6	407.3	400.4	403.8	417.6	462.5	528.1	541.9
42.5°	7893.4	6430.0	1156.2	393.5	390.0	383.1	383.1	386.6	410.7	455.6	462.5
45°	8542.2	6695.7	880.1	376.2	365.8	369.3	355.5	348.6	365.8	369.3	365.8
47.5°	9149.7	6961.5	704.1	355.5	345.1	345.1	327.9	314.1	314.1	283.0	279.6
50°	9719.2	7106.4	562.6	327.9	324.4	321.0	296.8	272.7	252.0	214.0	207.1
52.5°	10192.0	7099.5	434.9	293.4	303.7	293.4	255.4	220.9	189.8	155.3	148.4
55°	10333.5	6768.2	327.9	241.6	258.9	245.0	203.6	172.6	138.1	110.4	107.0
57.5°	10212.7	6264.3	248.5	186.4	200.2	186.4	155.3	127.7	96.6	75.9	69.0
60°	9808.9	5674.1	193.3	145.0	151.9	141.5	117.3	96.6	69.0	48.3	41.4
62.5°	9042.7	4935.5	148.4	113.9	110.4	110.4	89.7	72.5	48.3	27.6	24.2
65°	7420.5	3848.3	113.9	79.4	79.4	79.4	69.0	51.8	31.1	13.8	6.9
67.5°	4659.4	2240.0	93.2	62.1	58.7	58.7	48.3	34.5	17.3	3.5	0.0
70°	1753.3	821.4	72.5	48.3	44.9	44.9	34.5	20.7	10.4	0.0	0.0
72°	604.0	314.1	58.7	34.5	34.5	31.1	24.2	17.3	6.9	0.0	0.0
72.5°	497.0	252.0	55.2	34.5	31.1	31.1	24.2	17.3	6.9	0.0	0.0
75°	179.5	103.5	38.0	24.2	20.7	20.7	17.3	10.4	3.5	0.0	0.0
77.5°	89.7	65.6	31.1	20.7	17.3	10.4	10.4	6.9	3.5	0.0	0.0
80°	55.2	41.4	17.3	13.8	10.4	6.9	3.5	3.5	0.0	0.0	0.0
82.5°	38.0	24.2	10.4	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0
85°	24.2	10.4	6.9	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	6.9	3.5	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)