

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: P483400

Luminaire Tested: **IFLD-S-SA6D-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483400
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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

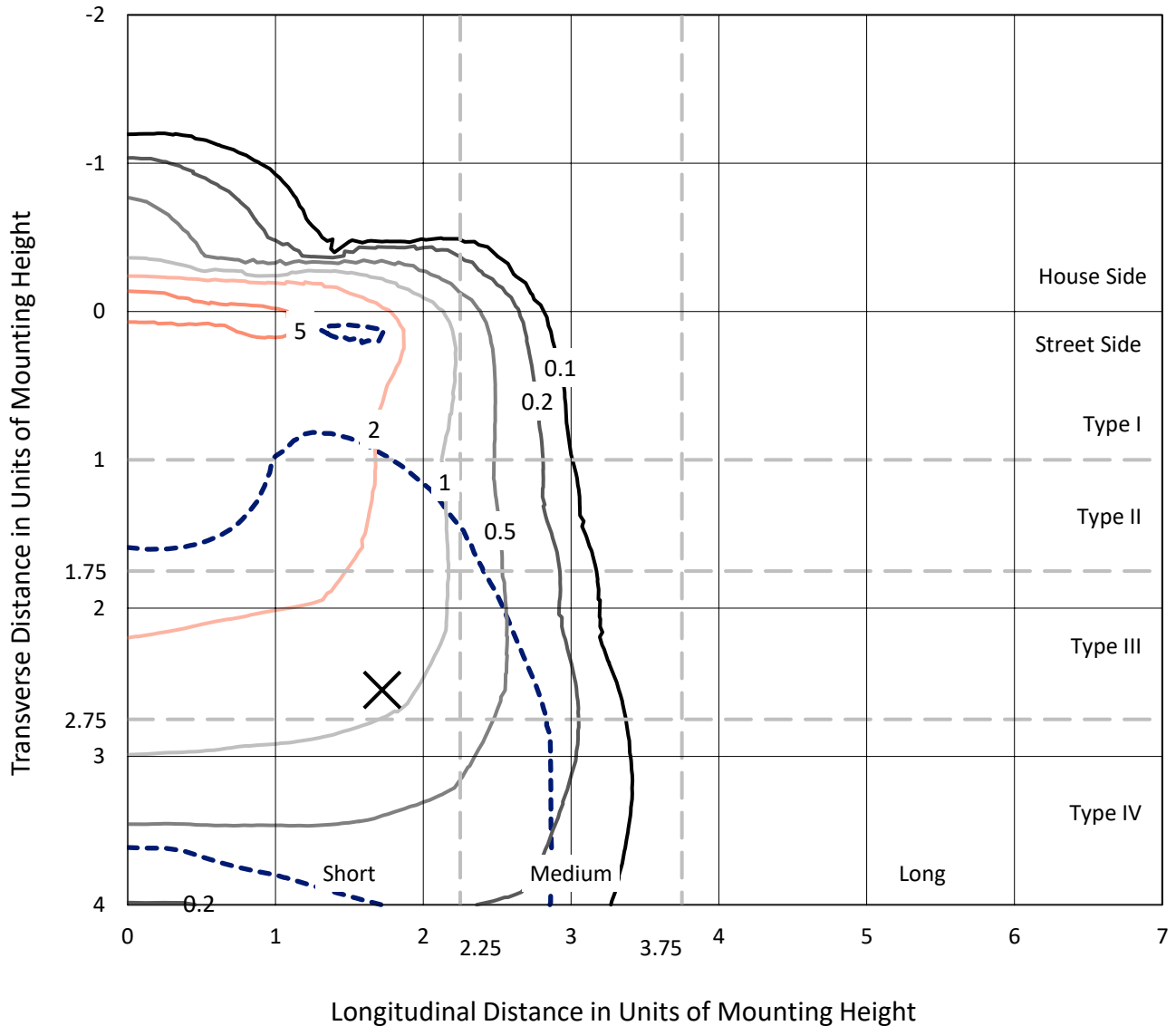
Lumens per Lamp: N/A
Luminaire Lumens: 26270.2 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2
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

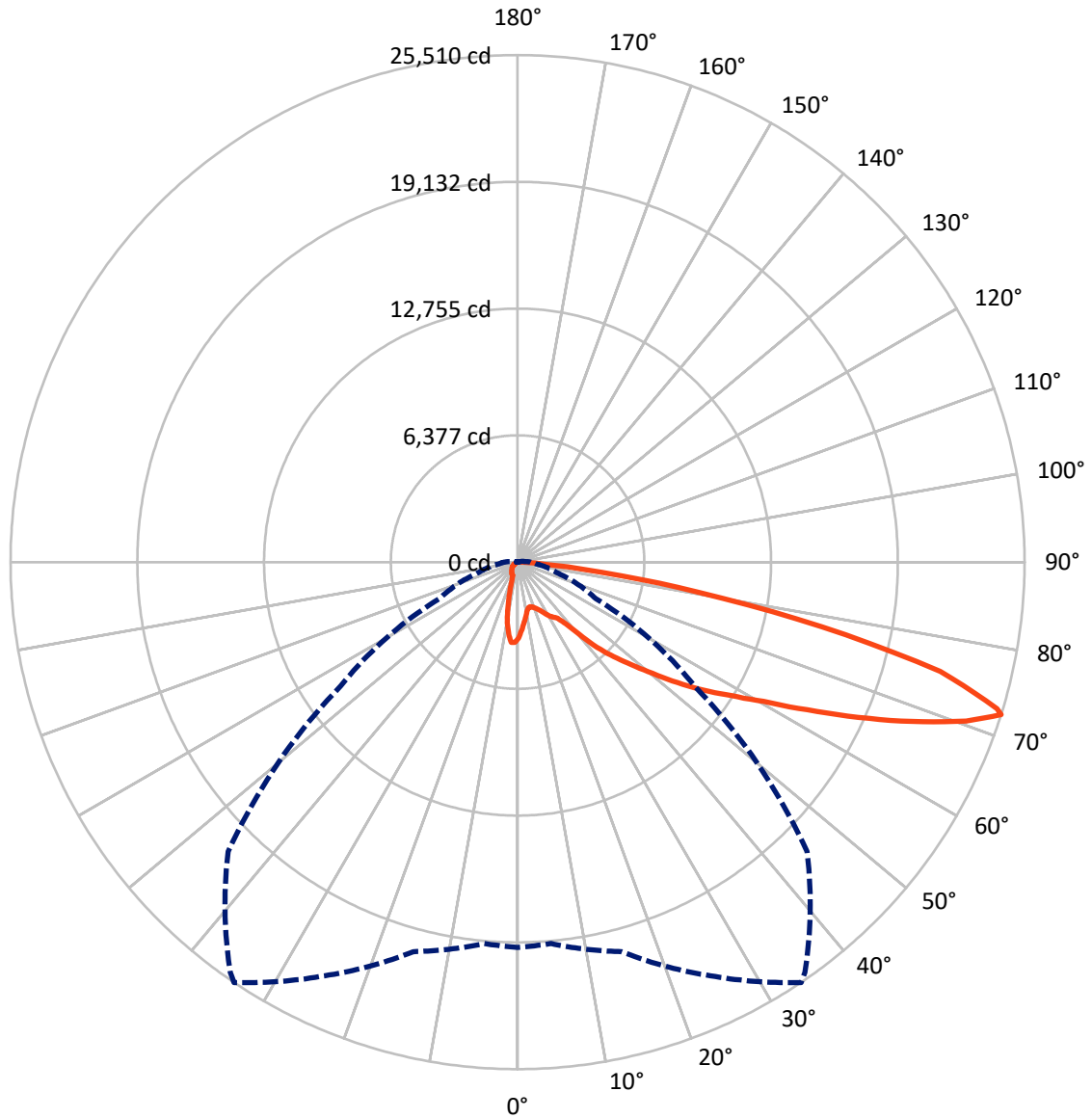
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2689.5	0.0	2689.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	23580.8	0.0	23580.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	26270.2	0.0	26270.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.3
10°-20°	755.3	2.9
20°-30°	1140.1	4.3
30°-40°	1850.2	7.0
40°-50°	3479.2	13.2
50°-60°	5688.5	21.7
60°-70°	7562.1	28.8
70°-80°	5064.3	19.3
80°-90°	396.9	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°	26270.2	100.0
0°-180°	26270.2	100.0

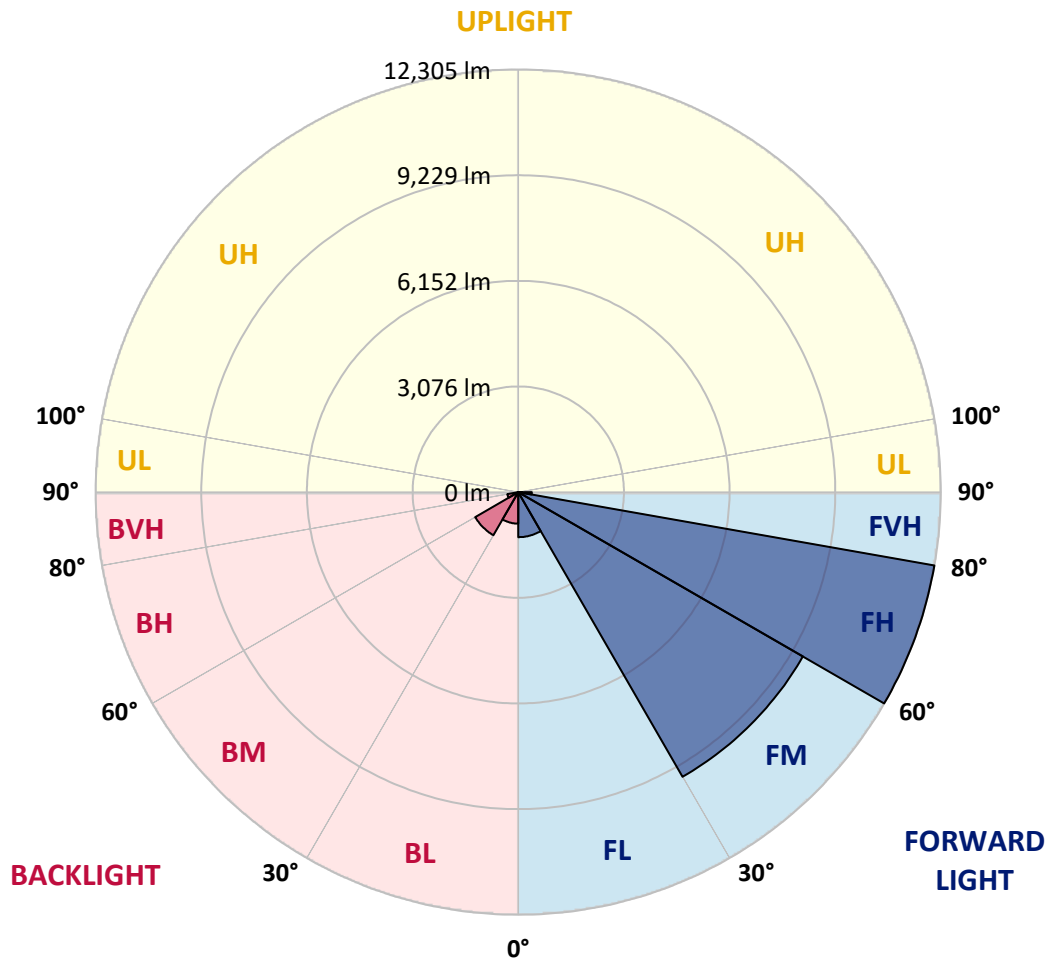


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.5	5.0			
FM (30°-60°)	9570.2	36.4			
FH (60°-80°)	12304.7	46.8			G5
FVH (80°-90°)	394.4	1.5			G3/500
BL (0°-30°)	917.6	3.5	B2/1000		
BM (30°-60°)	1447.7	5.5	B2/2500		
BH (60°-80°)	321.6	1.2	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: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3
2.5°	3399.0	3391.4	3414.2	3452.2	3490.2	3475.0	3547.1	3623.1	3676.2	3748.4	3835.8
5°	2969.9	2988.8	3011.6	3087.6	3137.0	3148.4	3281.3	3380.0	3543.3	3710.4	3866.1
7.5°	2578.7	2601.5	2647.0	2730.6	2833.1	2859.7	2992.6	3190.1	3402.8	3623.1	3877.5
10°	2293.9	2316.6	2366.0	2419.2	2555.9	2555.9	2738.2	3011.6	3288.9	3547.1	3881.3
12.5°	2233.1	2244.5	2240.7	2282.5	2369.8	2388.8	2567.3	2867.3	3190.1	3520.5	3942.1
15°	2305.2	2312.8	2274.9	2252.1	2328.0	2347.0	2514.1	2780.0	3125.6	3535.7	4040.8
17.5°	2449.6	2423.0	2347.0	2312.8	2377.4	2388.8	2544.5	2776.2	3118.0	3577.5	4154.8
20°	2533.1	2563.5	2430.6	2366.0	2457.2	2472.4	2639.5	2836.9	3156.0	3649.7	4314.3
22.5°	2681.2	2696.4	2517.9	2476.1	2563.5	2563.5	2753.4	2958.5	3247.1	3767.4	4504.2
25°	2890.1	2871.1	2662.2	2620.5	2704.0	2738.2	2928.1	3152.2	3387.6	3877.5	4678.9
27.5°	3053.4	3064.8	2893.9	2783.8	2924.3	2947.1	3152.2	3361.0	3494.0	3968.7	4891.5
30°	3296.5	3273.7	3091.4	2966.1	3140.8	3144.6	3342.0	3558.5	3699.0	4132.0	5210.5
32.5°	3585.1	3539.5	3330.6	3152.2	3292.7	3326.9	3528.1	3843.3	4018.0	4439.6	5704.3
35°	4196.5	4086.4	3744.6	3467.4	3478.8	3494.0	3805.4	4257.3	4458.6	4830.8	6365.1
37.5°	5089.0	5043.4	4656.1	4128.2	3926.9	3881.3	4230.7	4804.2	5054.8	5347.3	7223.4
40°	5973.9	5909.3	5548.6	5149.8	4785.2	4694.1	4868.7	5529.6	5757.4	6065.0	8104.5
42.5°	6957.5	6843.6	6418.2	6095.4	5867.6	5768.8	5700.5	6441.0	6699.3	6908.2	8966.5
45°	7952.5	7766.5	7151.2	6904.4	6782.8	6729.7	6722.1	7588.0	7743.7	7785.4	9923.6
47.5°	8826.0	8624.7	8066.5	7789.2	7698.1	7682.9	8108.3	8909.6	8788.1	8677.9	10990.8
50°	9498.2	9369.1	8966.5	8867.8	8799.4	8772.9	9767.9	10269.2	9707.1	9513.4	11928.8
52.5°	10538.8	10250.2	9794.5	9828.6	10067.9	10071.7	11450.3	11560.4	10470.5	10086.9	12813.7
55°	11370.5	11180.7	10808.5	10759.1	11389.5	11457.9	12958.0	12540.3	10895.8	10633.8	13140.3
57.5°	12350.4	12263.0	11993.4	12001.0	12661.8	12806.1	14298.6	13368.2	11249.0	10987.0	13189.7
60°	13766.9	13516.3	13375.8	13440.3	14218.9	14359.4	15597.5	13964.4	11419.9	11218.6	13068.1
62.5°	15331.6	15039.2	14887.3	15217.7	16353.2	16376.0	16584.9	14492.3	11313.6	11279.4	12285.8
65°	17215.3	16926.7	16805.2	17469.8	18818.0	18734.4	17971.1	14716.4	10975.6	10668.0	10231.2
67.5°	19091.4	18916.7	18666.1	19725.6	21404.3	21404.3	19410.4	14632.8	10090.7	8564.0	6691.7
70°	19980.1	20101.6	20500.4	22163.8	23945.0	23762.7	20830.8	13672.0	7512.0	4599.1	2631.9
72°	19387.6	19262.3	20291.5	22961.4	25509.7	25209.6	20591.5	10869.2	4340.9	2016.6	915.3
72.5°	18369.8	18487.6	19904.1	22851.2	25217.2	25464.1	20006.7	10026.1	3569.9	1606.5	691.2
75°	11264.2	11465.5	14856.9	19402.8	21973.9	21696.7	15475.9	4777.6	1371.0	683.6	246.9
77.5°	4113.0	4280.1	7208.2	12209.8	15627.8	15453.1	8955.2	1697.6	744.4	508.9	125.3
80°	1071.0	1158.3	2449.6	5632.1	9190.6	9202.0	3748.4	679.8	505.1	417.8	76.0
82.5°	212.7	235.5	752.0	2191.3	4295.3	4238.3	1184.9	364.6	379.8	341.8	53.2
85°	26.6	34.2	159.5	744.4	1390.0	1245.7	292.4	182.3	281.0	265.8	34.2
87.5°	3.8	3.8	38.0	170.9	292.4	284.8	60.8	57.0	125.3	163.3	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°	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3	3843.3
2.5°	3885.1	3900.3	3953.5	3999.1	4052.2	4067.4	4044.6	4082.6	4029.4	4059.8	4067.4
5°	3892.7	3980.1	4078.8	4143.4	4128.2	4090.2	4059.8	3957.3	3885.1	3858.5	3915.5
7.5°	3945.9	4044.6	4151.0	4151.0	4067.4	3869.9	3680.0	3497.8	3345.8	3269.9	3334.4
10°	4014.2	4116.8	4226.9	4082.6	3771.2	3410.4	3140.8	2799.0	2567.3	2445.8	2457.2
12.5°	4105.4	4249.7	4287.7	3953.5	3437.0	2901.5	2411.6	1936.9	1716.6	1541.9	1545.7
15°	4223.1	4363.6	4249.7	3672.4	3011.6	2221.7	1633.0	1181.1	1006.4	915.3	915.3
17.5°	4378.8	4485.2	4238.3	3414.2	2438.2	1519.1	1002.6	797.5	759.6	744.4	744.4
20°	4561.1	4640.9	4128.2	3011.6	1811.5	976.0	736.8	714.0	717.8	710.2	710.2
22.5°	4766.2	4792.8	4002.9	2544.5	1226.7	721.6	687.4	691.2	695.0	687.4	691.2
25°	4982.7	4910.5	3820.6	1997.6	816.5	657.0	664.6	672.2	676.0	679.8	679.8
27.5°	5225.7	5081.4	3566.1	1462.1	638.0	619.0	641.8	664.6	668.4	668.4	664.6
30°	5582.7	5343.5	3319.3	991.2	562.1	577.3	615.2	641.8	660.8	660.8	657.0
32.5°	6034.7	5616.9	2973.7	676.0	520.3	527.9	558.3	611.4	653.2	657.0	645.6
35°	6661.3	5947.3	2612.9	539.3	489.9	493.7	512.7	554.5	626.6	649.4	645.6
37.5°	7322.1	6323.3	2164.7	486.1	467.1	463.3	474.7	508.9	573.5	630.4	634.2
40°	8024.7	6718.3	1693.8	459.5	448.1	440.5	444.3	459.5	508.9	581.1	596.3
42.5°	8685.5	7075.3	1272.3	432.9	429.1	421.6	421.6	425.4	451.9	501.3	508.9
45°	9399.5	7367.7	968.4	414.0	402.6	406.4	391.2	383.6	402.6	406.4	402.6
47.5°	10067.9	7660.1	774.7	391.2	379.8	379.8	360.8	345.6	345.6	311.4	307.6
50°	10694.5	7819.6	619.0	360.8	357.0	353.2	326.6	300.0	277.2	235.5	227.9
52.5°	11214.8	7812.0	478.5	322.8	334.2	322.8	281.0	243.1	208.9	170.9	163.3
55°	11370.5	7447.4	360.8	265.8	284.8	269.6	224.1	189.9	151.9	121.5	117.7
57.5°	11237.6	6893.0	273.4	205.1	220.3	205.1	170.9	140.5	106.3	83.6	76.0
60°	10793.3	6243.5	212.7	159.5	167.1	155.7	129.1	106.3	76.0	53.2	45.6
62.5°	9950.2	5430.8	163.3	125.3	121.5	121.5	98.7	79.8	53.2	30.4	26.6
65°	8165.2	4234.5	125.3	87.3	87.3	87.3	76.0	57.0	34.2	15.2	7.6
67.5°	5127.0	2464.8	102.5	68.4	64.6	64.6	53.2	38.0	19.0	3.8	0.0
70°	1929.3	903.9	79.8	53.2	49.4	49.4	38.0	22.8	11.4	0.0	0.0
72°	664.6	345.6	64.6	38.0	38.0	34.2	26.6	19.0	7.6	0.0	0.0
72.5°	546.9	277.2	60.8	38.0	34.2	34.2	26.6	19.0	7.6	0.0	0.0
75°	197.5	113.9	41.8	26.6	22.8	22.8	19.0	11.4	3.8	0.0	0.0
77.5°	98.7	72.2	34.2	22.8	19.0	11.4	11.4	7.6	3.8	0.0	0.0
80°	60.8	45.6	19.0	15.2	11.4	7.6	3.8	3.8	0.0	0.0	0.0
82.5°	41.8	26.6	11.4	11.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0
85°	26.6	11.4	7.6	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	7.6	3.8	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)