

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: P483413

Luminaire Tested: **IFLD-L-SA8B-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483413
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

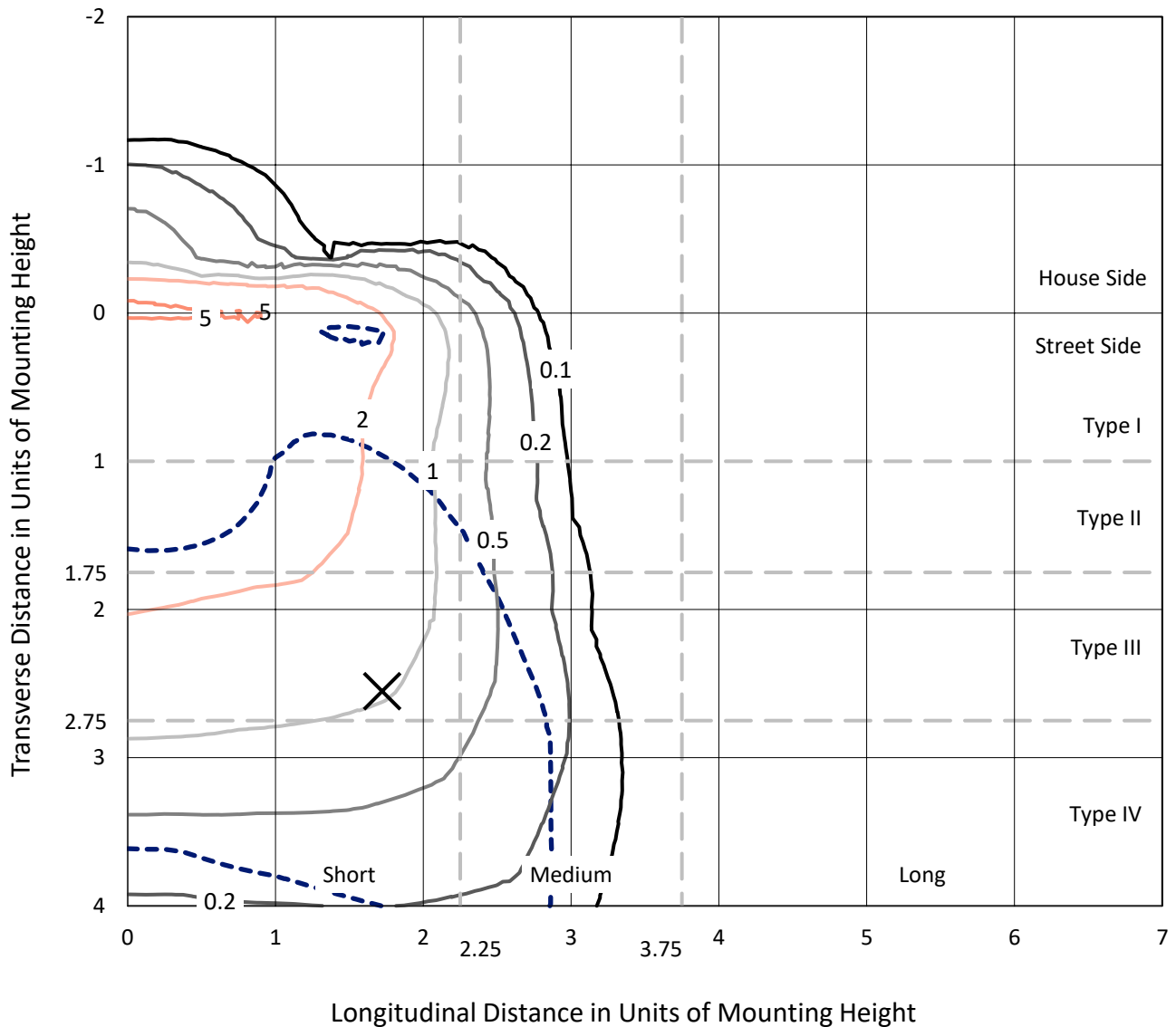
Lumens per Lamp: N/A
Luminaire Lumens: 23384.1 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

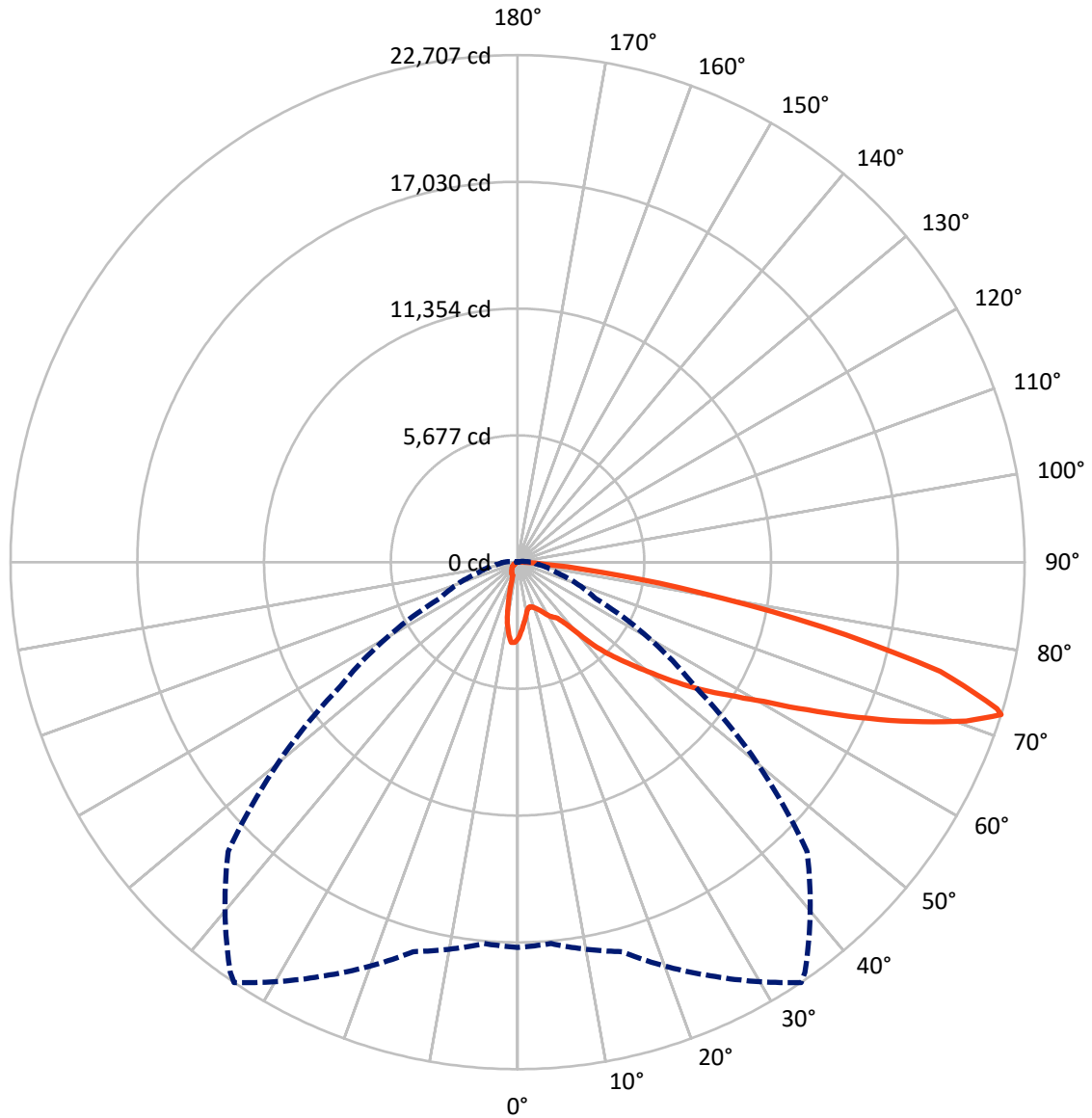
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2394.0	0.0	2394.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	20990.1	0.0	20990.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	23384.1	0.0	23384.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.3
10°-20°	672.4	2.9
20°-30°	1014.9	4.3
30°-40°	1646.9	7.0
40°-50°	3096.9	13.2
50°-60°	5063.6	21.7
60°-70°	6731.3	28.8
70°-80°	4507.9	19.3
80°-90°	353.3	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°	23384.1	100.0
0°-180°	23384.1	100.0

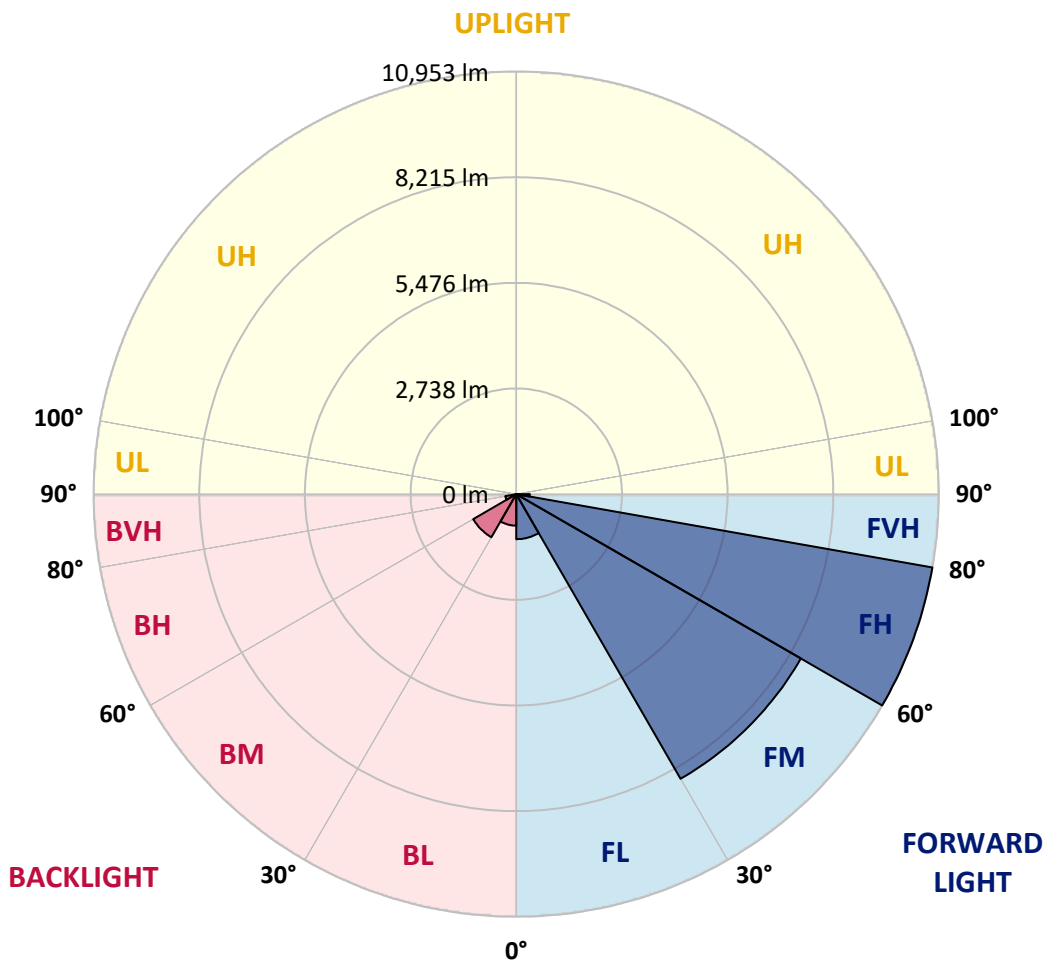


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.4	5.0			
FM (30°-60°)	8518.8	36.4			
FH (60°-80°)	10952.9	46.8			G4/12000
FVH (80°-90°)	351.0	1.5			G3/500
BL (0°-30°)	816.8	3.5	B2/1000		
BM (30°-60°)	1288.6	5.5	B2/2500		
BH (60°-80°)	286.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1
2.5°	3025.6	3018.8	3039.1	3072.9	3106.7	3093.2	3157.4	3225.0	3272.4	3336.6	3414.3
5°	2643.6	2660.5	2680.8	2748.4	2792.3	2802.5	2920.8	3008.7	3154.0	3302.8	3441.4
7.5°	2295.4	2315.7	2356.2	2430.6	2521.9	2545.5	2663.9	2839.7	3029.0	3225.0	3451.5
10°	2041.8	2062.1	2106.1	2153.4	2275.1	2275.1	2437.4	2680.8	2927.5	3157.4	3454.9
12.5°	1987.8	1997.9	1994.5	2031.7	2109.5	2126.4	2285.2	2552.3	2839.7	3133.8	3509.0
15°	2052.0	2058.7	2024.9	2004.7	2072.3	2089.2	2237.9	2474.6	2782.2	3147.3	3596.9
17.5°	2180.4	2156.8	2089.2	2058.7	2116.2	2126.4	2265.0	2471.2	2775.4	3184.5	3698.3
20°	2254.8	2281.9	2163.5	2106.1	2187.2	2200.7	2349.5	2525.3	2809.2	3248.7	3840.3
22.5°	2386.7	2400.2	2241.3	2204.1	2281.9	2281.9	2450.9	2633.4	2890.4	3353.5	4009.3
25°	2572.6	2555.7	2369.8	2332.6	2406.9	2437.4	2606.4	2805.8	3015.4	3451.5	4164.8
27.5°	2718.0	2728.1	2576.0	2477.9	2603.0	2623.3	2805.8	2991.8	3110.1	3532.7	4354.1
30°	2934.3	2914.0	2751.8	2640.2	2795.7	2799.1	2974.9	3167.6	3292.6	3678.0	4638.1
32.5°	3191.2	3150.7	2964.7	2805.8	2930.9	2961.4	3140.5	3421.1	3576.6	3951.9	5077.6
35°	3735.5	3637.5	3333.2	3086.4	3096.6	3110.1	3387.3	3789.6	3968.8	4300.0	5665.8
37.5°	4529.9	4489.4	4144.5	3674.6	3495.5	3454.9	3765.9	4276.4	4499.5	4759.8	6429.8
40°	5317.6	5260.1	4939.0	4584.0	4259.5	4178.3	4333.9	4922.1	5124.9	5398.7	7214.1
42.5°	6193.1	6091.7	5713.1	5425.8	5222.9	5135.0	5074.2	5733.4	5963.3	6149.2	7981.5
45°	7078.8	6913.2	6365.6	6145.8	6037.6	5990.3	5983.6	6754.3	6892.9	6930.1	8833.3
47.5°	7856.4	7677.2	7180.3	6933.5	6852.4	6838.8	7217.5	7930.7	7822.6	7724.5	9783.3
50°	8454.7	8339.8	7981.5	7893.6	7832.7	7809.0	8694.7	9141.0	8640.7	8468.3	10618.3
52.5°	9381.0	9124.1	8718.4	8748.8	8961.8	8965.2	10192.3	10290.4	9320.1	8978.7	11405.9
55°	10121.3	9952.3	9621.0	9577.1	10138.2	10199.1	11534.4	11162.5	9698.8	9465.5	11696.7
57.5°	10993.5	10915.8	10675.7	10682.5	11270.7	11399.2	12727.7	11899.5	10013.2	9779.9	11740.6
60°	12254.5	12031.3	11906.3	11963.7	12656.7	12781.8	13883.9	12430.2	10165.3	9986.1	11632.4
62.5°	13647.2	13386.9	13251.7	13545.8	14556.6	14576.9	14762.8	12900.1	10070.6	10040.2	10936.0
65°	15324.0	15067.1	14958.9	15550.5	16750.6	16676.2	15996.7	13099.6	9769.8	9495.9	9107.2
67.5°	16994.0	16838.5	16615.4	17558.5	19052.7	19052.7	17277.9	13025.2	8982.1	7623.1	5956.5
70°	17785.0	17893.2	18248.2	19728.8	21314.3	21152.0	18542.3	12169.9	6686.7	4093.8	2342.7
72°	17257.7	17146.1	18062.2	20438.7	22707.1	22440.0	18329.3	9675.1	3864.0	1795.1	814.7
72.5°	16351.7	16456.5	17717.4	20340.7	22446.8	22666.5	17808.7	8924.6	3177.7	1430.0	615.3
75°	10026.7	10205.8	13224.7	17271.2	19559.8	19313.0	13775.7	4252.7	1220.4	608.5	219.7
77.5°	3661.1	3809.9	6416.3	10868.4	13910.9	13755.4	7971.3	1511.1	662.6	453.0	111.6
80°	953.3	1031.1	2180.4	5013.3	8180.9	8191.0	3336.6	605.1	449.6	371.9	67.6
82.5°	189.3	209.6	669.3	1950.6	3823.4	3772.7	1054.7	324.5	338.1	304.2	47.3
85°	23.7	30.4	142.0	662.6	1237.3	1108.8	260.3	162.3	250.2	236.6	30.4
87.5°	3.4	3.4	33.8	152.1	260.3	253.5	54.1	50.7	111.6	145.4	16.9
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°	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1	3421.1
2.5°	3458.3	3471.8	3519.1	3559.7	3607.0	3620.6	3600.3	3634.1	3586.8	3613.8	3620.6
5°	3465.1	3542.8	3630.7	3688.2	3674.6	3640.8	3613.8	3522.5	3458.3	3434.6	3485.3
7.5°	3512.4	3600.3	3694.9	3694.9	3620.6	3444.8	3275.7	3113.5	2978.3	2910.6	2968.1
10°	3573.2	3664.5	3762.5	3634.1	3356.9	3035.7	2795.7	2491.5	2285.2	2177.1	2187.2
12.5°	3654.4	3782.8	3816.6	3519.1	3059.4	2582.7	2146.6	1724.1	1528.0	1372.5	1375.9
15°	3759.2	3884.2	3782.8	3269.0	2680.8	1977.6	1453.6	1051.3	895.8	814.7	814.7
17.5°	3897.8	3992.4	3772.7	3039.1	2170.3	1352.2	892.5	709.9	676.1	662.6	662.6
20°	4060.0	4131.0	3674.6	2680.8	1612.5	868.8	655.8	635.5	638.9	632.2	632.2
22.5°	4242.6	4266.2	3563.1	2265.0	1091.9	642.3	611.9	615.3	618.6	611.9	615.3
25°	4435.3	4371.0	3400.8	1778.2	726.8	584.8	591.6	598.4	601.7	605.1	605.1
27.5°	4651.6	4523.2	3174.3	1301.5	567.9	551.0	571.3	591.6	595.0	595.0	591.6
30°	4969.4	4756.4	2954.6	882.3	500.3	513.8	547.6	571.3	588.2	588.2	584.8
32.5°	5371.7	4999.8	2647.0	601.7	463.1	469.9	496.9	544.3	581.5	584.8	574.7
35°	5929.5	5293.9	2325.8	480.0	436.1	439.5	456.4	493.6	557.8	578.1	574.7
37.5°	6517.7	5628.6	1926.9	432.7	415.8	412.4	422.6	453.0	510.5	561.2	564.6
40°	7143.1	5980.2	1507.7	409.0	398.9	392.1	395.5	409.0	453.0	517.2	530.7
42.5°	7731.3	6297.9	1132.5	385.4	382.0	375.2	375.2	378.6	402.3	446.2	453.0
45°	8366.8	6558.2	862.0	368.5	358.3	361.7	348.2	341.4	358.3	361.7	358.3
47.5°	8961.8	6818.5	689.6	348.2	338.1	338.1	321.2	307.6	307.6	277.2	273.8
50°	9519.6	6960.5	551.0	321.2	317.8	314.4	290.7	267.1	246.8	209.6	202.8
52.5°	9982.7	6953.8	425.9	287.3	297.5	287.3	250.2	216.4	185.9	152.1	145.4
55°	10121.3	6629.2	321.2	236.6	253.5	240.0	199.5	169.0	135.2	108.2	104.8
57.5°	10003.0	6135.7	243.4	182.5	196.1	182.5	152.1	125.1	94.7	74.4	67.6
60°	9607.5	5557.6	189.3	142.0	148.7	138.6	114.9	94.7	67.6	47.3	40.6
62.5°	8857.0	4834.2	145.4	111.6	108.2	108.2	87.9	71.0	47.3	27.0	23.7
65°	7268.2	3769.3	111.6	77.8	77.8	77.8	67.6	50.7	30.4	13.5	6.8
67.5°	4563.7	2194.0	91.3	60.8	57.5	57.5	47.3	33.8	16.9	3.4	0.0
70°	1717.3	804.6	71.0	47.3	43.9	43.9	33.8	20.3	10.1	0.0	0.0
72°	591.6	307.6	57.5	33.8	33.8	30.4	23.7	16.9	6.8	0.0	0.0
72.5°	486.8	246.8	54.1	33.8	30.4	30.4	23.7	16.9	6.8	0.0	0.0
75°	175.8	101.4	37.2	23.7	20.3	20.3	16.9	10.1	3.4	0.0	0.0
77.5°	87.9	64.2	30.4	20.3	16.9	10.1	10.1	6.8	3.4	0.0	0.0
80°	54.1	40.6	16.9	13.5	10.1	6.8	3.4	3.4	0.0	0.0	0.0
82.5°	37.2	23.7	10.1	10.1	6.8	3.4	0.0	0.0	0.0	0.0	0.0
85°	23.7	10.1	6.8	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	6.8	3.4	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)