

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: P478937

Luminaire Tested: **IFLD-S-SA3B-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478937
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

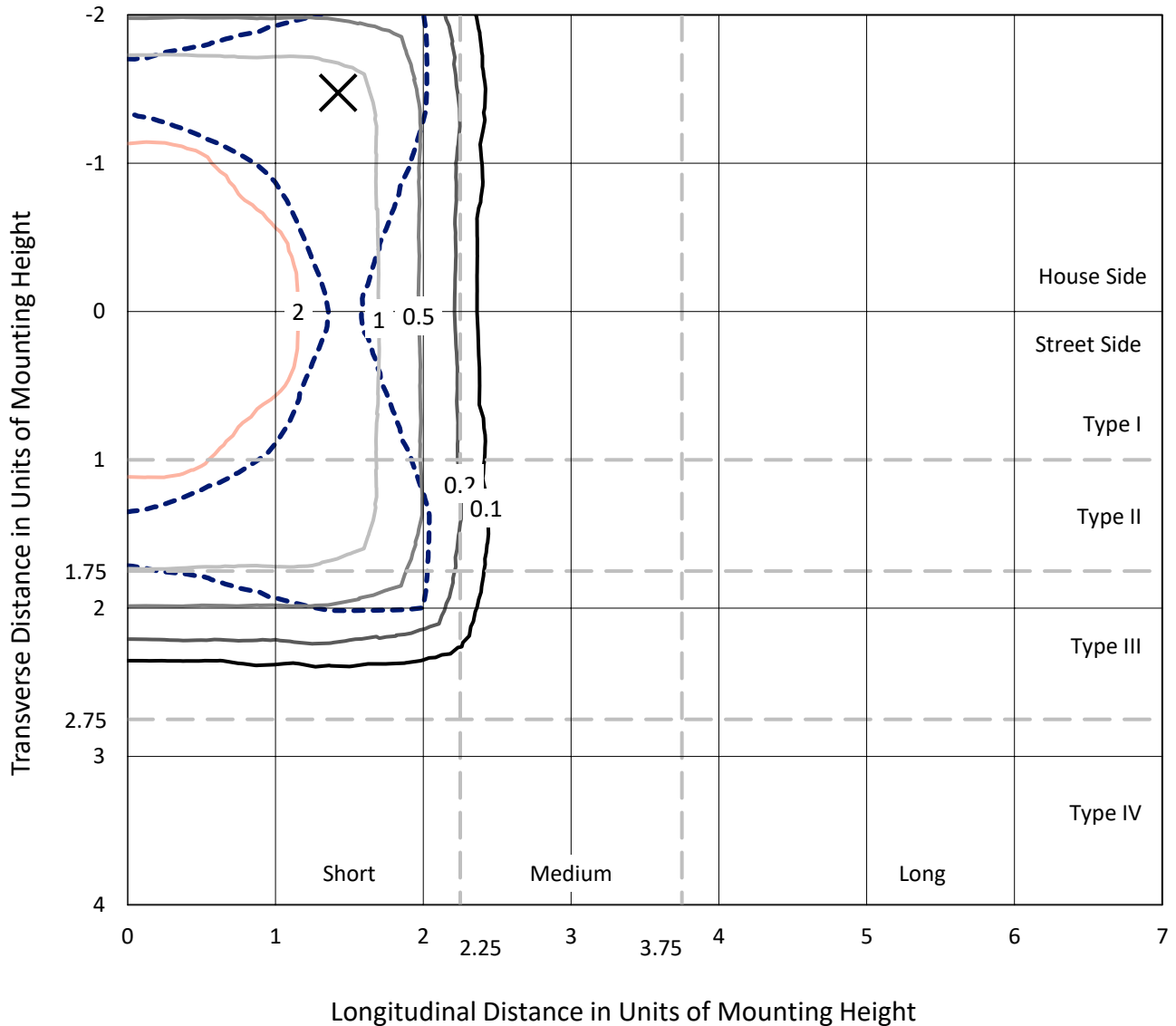
Lumens per Lamp: N/A
Luminaire Lumens: 16971.2 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 122.4
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

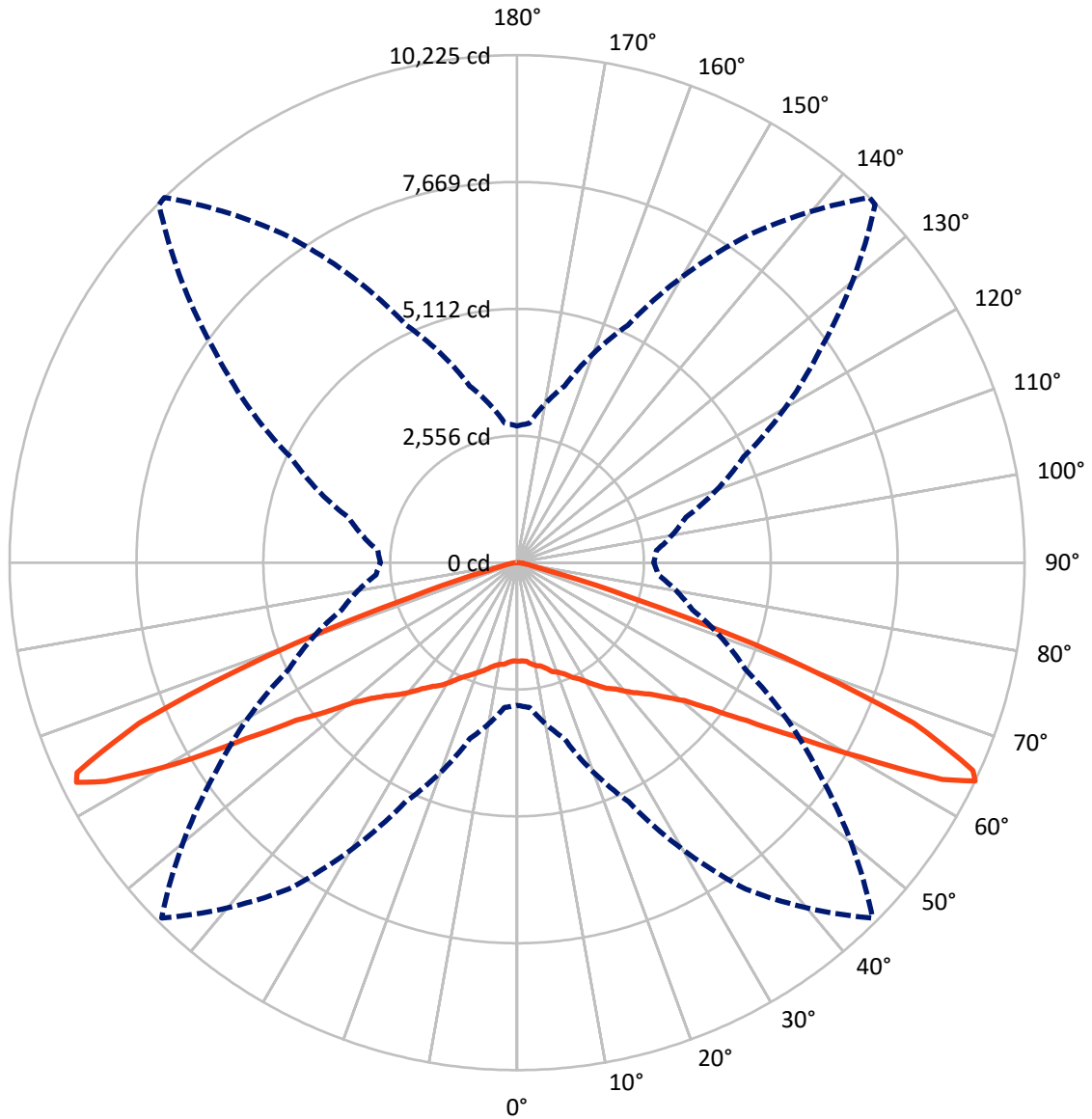
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8493.7	0.0	8493.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8477.5	0.0	8477.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16971.2	0.0	16971.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	1.2
10°-20°	629.2	3.7
20°-30°	1182.6	7.0
30°-40°	1950.3	11.5
40°-50°	3050.2	18.0
50°-60°	4928.3	29.0
60°-70°	4437.6	26.1
70°-80°	525.7	3.1
80°-90°	72.0	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°	16971.2	100.0
0°-180°	16971.2	100.0

Coefficient of Utilization



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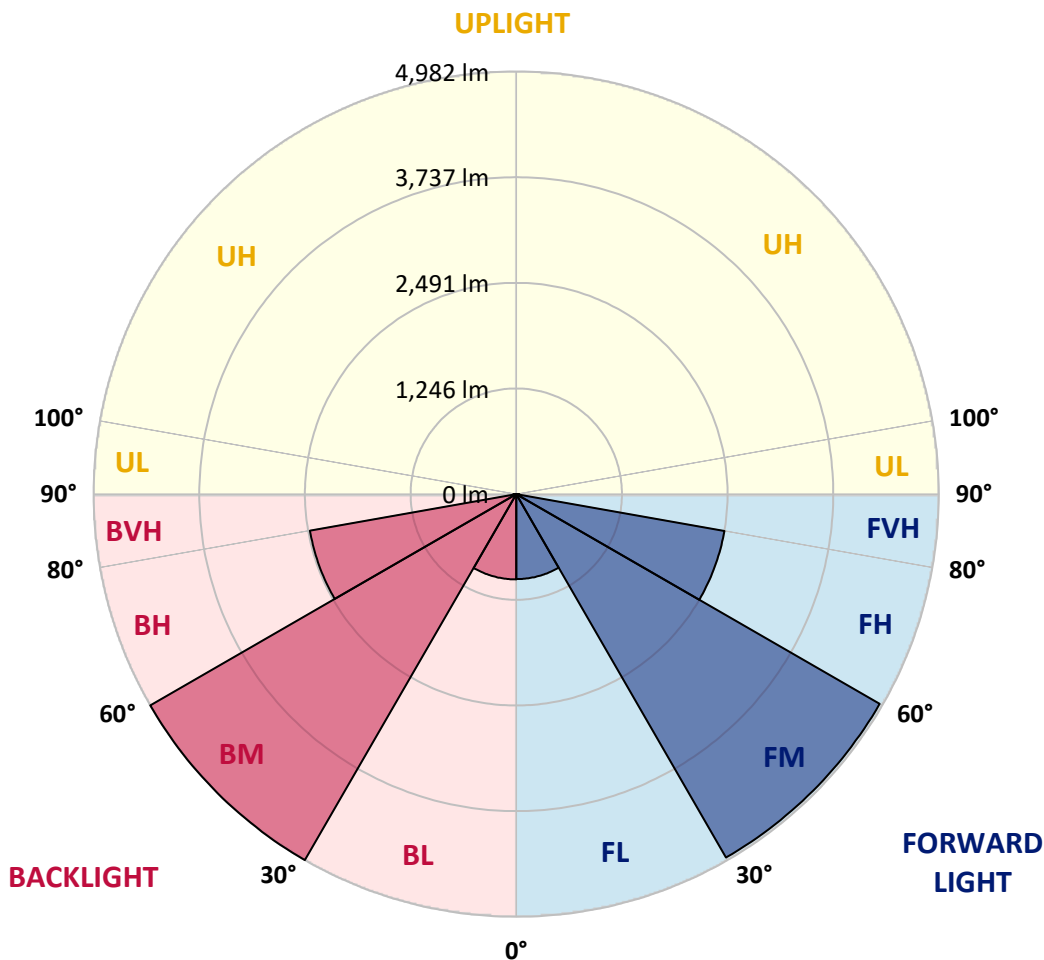
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.6	5.9			
FM (30°-60°)	4946.6	29.1			
FH (60°-80°)	2492.4	14.7			G2/5000
FVH (80°-90°)	36.9	0.2			G1/100
BL (0°-30°)	1005.5	5.9	B3/2500		
BM (30°-60°)	4982.3	29.4	B3/5000		
BH (60°-80°)	2470.9	14.6	B3/2500		G2/5000
BVH (80°-90°)	35.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1963.6	1967.5	2002.5	1988.9	2000.6	1979.2	1994.8	2027.8	1988.9	2018.1	2027.8
5°	1985.0	1990.9	1990.9	2004.5	2012.3	2008.4	2018.1	2004.5	2041.5	2025.9	2049.3
7.5°	2062.9	2053.1	2037.6	2049.3	2051.2	2060.9	2070.7	2088.2	2082.3	2068.7	2092.1
10°	2076.5	2068.7	2092.1	2094.0	2084.3	2076.5	2086.2	2086.2	2103.7	2107.6	2107.6
12.5°	2099.8	2107.6	2105.7	2121.3	2123.2	2117.4	2132.9	2162.1	2154.3	2160.2	2146.6
15°	2189.4	2179.6	2177.7	2193.3	2218.6	2181.6	2208.8	2206.9	2199.1	2210.8	2179.6
17.5°	2267.2	2236.1	2249.7	2275.0	2265.3	2273.1	2308.1	2276.9	2284.7	2271.1	2261.4
20°	2335.3	2310.0	2312.0	2321.7	2321.7	2345.1	2358.7	2347.0	2339.2	2337.3	2341.2
22.5°	2411.2	2382.0	2384.0	2424.8	2438.5	2430.7	2421.0	2440.4	2444.3	2428.7	2446.3
25°	2467.7	2498.8	2508.5	2528.0	2498.8	2520.2	2512.4	2549.4	2572.8	2541.6	2563.0
27.5°	2615.6	2601.9	2627.2	2625.3	2648.7	2627.2	2640.9	2652.5	2662.3	2664.2	2654.5
30°	2747.9	2753.7	2728.4	2796.6	2742.1	2777.1	2800.4	2806.3	2818.0	2818.0	2788.8
32.5°	2888.0	2876.3	2917.2	2901.6	2891.9	2919.2	2893.9	2973.7	2926.9	2954.2	2921.1
35°	3045.7	3045.7	3061.2	3104.0	3045.7	3028.1	3074.8	3107.9	3107.9	3059.3	3071.0
37.5°	3222.8	3207.2	3226.6	3281.1	3236.4	3178.0	3263.6	3277.2	3267.5	3253.9	3230.5
40°	3347.3	3343.4	3382.3	3454.3	3390.1	3378.4	3394.0	3431.0	3442.7	3456.3	3425.1
42.5°	3557.5	3575.0	3687.9	3670.4	3617.8	3576.9	3573.1	3711.2	3678.1	3643.1	3625.6
45°	3868.9	3853.3	3911.7	3913.6	3845.5	3756.0	3775.4	3901.9	3958.4	3880.5	3909.7
47.5°	4116.0	4123.8	4164.7	4248.4	4090.7	3997.3	4069.3	4273.7	4256.1	4226.9	4254.2
50°	4446.9	4481.9	4610.3	4581.1	4441.0	4326.2	4483.8	4676.5	4697.9	4590.9	4571.4
52.5°	4904.2	4958.7	5028.7	5052.1	4917.8	4876.9	4886.7	5126.0	5073.5	4970.4	4904.2
55°	5305.1	5330.4	5458.8	5651.5	5641.8	5445.2	5558.1	5647.6	5433.5	5221.4	5238.9
57.5°	5476.3	5488.0	5846.1	6231.4	6461.1	6505.8	6377.4	6075.7	5565.9	5157.2	5131.9
60°	5050.1	5161.1	5593.1	6463.0	7512.0	8029.6	7175.3	6124.4	5256.4	4760.2	4723.2
62.5°	4036.2	4042.1	4684.3	6003.7	8165.9	9522.3	7480.8	5667.1	4431.3	3868.9	3721.0
64°	2874.4	2928.9	3666.5	5314.8	8029.6	10129.5	7443.9	5069.6	3652.8	2854.9	2751.8
65°	2062.9	2138.8	2851.0	4614.2	7710.5	10057.5	7332.9	4555.8	2954.2	2179.6	2074.5
67.5°	759.0	790.1	1119.0	2308.1	5536.7	8570.7	5811.1	2504.6	1298.1	924.4	831.0
70°	352.2	354.2	414.5	762.9	2421.0	5731.3	2773.2	940.0	488.5	387.3	360.0
72.5°	258.8	264.7	290.0	352.2	712.3	2426.8	910.8	385.3	286.1	253.0	247.2
75°	210.2	214.1	221.9	254.9	328.9	650.0	369.8	266.6	227.7	204.3	196.6
77.5°	161.5	161.5	179.0	194.6	218.0	303.6	245.2	212.1	184.9	161.5	155.7
80°	116.8	118.7	140.1	151.8	147.9	200.4	177.1	175.1	151.8	126.5	116.8
82.5°	68.1	74.0	101.2	109.0	105.1	118.7	128.4	136.2	118.7	87.6	79.8
85°	38.9	40.9	58.4	60.3	60.3	56.4	74.0	81.7	79.8	54.5	48.7
87.5°	11.7	11.7	15.6	15.6	17.5	19.5	29.2	35.0	38.9	27.2	25.3
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2018.1	1988.9	1990.9	1998.7	1973.4	1983.1	2012.3	1990.9	1985.0	1973.4	1967.5
5°	2008.4	2039.5	2027.8	2031.7	2025.9	1998.7	1994.8	2012.3	2022.0	2004.5	2039.5
7.5°	2076.5	2062.9	2047.3	2053.1	2039.5	2062.9	2078.4	2043.4	2060.9	2051.2	2031.7
10°	2115.4	2090.1	2101.8	2097.9	2088.2	2111.5	2096.0	2092.1	2076.5	2055.1	2086.2
12.5°	2129.0	2158.2	2177.7	2144.6	2150.4	2138.8	2129.0	2129.0	2111.5	2105.7	2111.5
15°	2189.4	2214.7	2206.9	2232.2	2199.1	2210.8	2222.5	2193.3	2208.8	2166.0	2199.1
17.5°	2300.3	2278.9	2306.1	2273.1	2284.7	2308.1	2271.1	2271.1	2282.8	2259.4	2230.2
20°	2370.4	2360.6	2350.9	2352.8	2333.4	2354.8	2343.1	2337.3	2319.8	2327.5	2343.1
22.5°	2436.5	2422.9	2426.8	2432.6	2446.3	2436.5	2430.7	2436.5	2393.7	2432.6	2378.1
25°	2518.3	2555.2	2543.6	2568.9	2529.9	2555.2	2553.3	2516.3	2539.7	2524.1	2512.4
27.5°	2654.5	2635.0	2652.5	2621.4	2648.7	2650.6	2627.2	2689.5	2662.3	2658.4	2650.6
30°	2829.6	2816.0	2804.3	2786.8	2808.2	2790.7	2810.2	2816.0	2790.7	2771.3	2734.3
32.5°	2928.9	2965.9	2979.5	2936.7	2938.6	2948.4	2930.8	2913.3	2928.9	2934.7	2928.9
35°	3069.0	3104.0	3111.8	3078.7	3061.2	3109.9	3074.8	3133.2	3082.6	3084.6	3032.0
37.5°	3232.5	3242.2	3308.4	3271.4	3255.8	3232.5	3296.7	3288.9	3300.6	3207.2	3253.9
40°	3417.4	3452.4	3489.4	3396.0	3394.0	3415.4	3411.5	3456.3	3434.9	3421.3	3388.2
42.5°	3619.8	3693.7	3699.5	3637.3	3598.4	3594.5	3613.9	3713.2	3715.1	3625.6	3586.7
45°	3888.3	3970.1	3948.7	3828.0	3785.2	3779.3	3874.7	3917.5	3954.5	3919.5	3886.4
47.5°	4223.1	4277.5	4262.0	4151.0	4012.9	4051.8	4145.2	4279.5	4240.6	4193.9	4154.9
50°	4581.1	4645.4	4612.3	4501.3	4369.0	4369.0	4483.8	4655.1	4643.4	4551.9	4516.9
52.5°	4978.1	5071.6	5147.5	4989.8	4878.9	4896.4	5077.4	5139.7	5110.5	5046.3	5017.1
55°	5273.9	5453.0	5608.7	5616.5	5622.3	5620.4	5667.1	5729.3	5521.1	5418.0	5312.9
57.5°	5201.9	5540.6	6073.8	6435.8	6542.8	6599.2	6583.7	6295.7	5803.3	5464.7	5499.7
60°	4688.2	5240.9	6101.0	7262.9	8041.3	7963.5	7679.3	6540.9	5647.6	5075.4	5003.4
62.5°	3740.4	4406.0	5643.7	7496.4	9641.0	9617.7	8130.8	5974.5	4705.7	3981.7	3937.0
64°	2818.0	3518.6	5034.6	7436.1	10201.5	10224.8	8016.0	5277.8	3682.0	2818.0	2749.8
65°	2156.3	2806.3	4437.1	7311.5	10080.8	10094.5	7696.9	4557.8	2798.5	2000.6	1926.6
67.5°	858.2	1194.9	2407.3	5544.5	8656.3	8619.3	5491.9	2204.9	1070.4	696.7	683.1
70°	365.9	455.4	844.6	2627.2	5795.5	5688.5	2364.5	716.2	397.0	332.8	330.8
72.5°	251.0	278.3	362.0	811.5	2409.3	2352.8	673.4	332.8	270.5	249.1	249.1
75°	202.4	221.9	262.7	340.6	638.3	615.0	317.2	245.2	216.0	200.4	198.5
77.5°	157.6	177.1	206.3	235.5	291.9	290.0	212.1	184.9	167.4	155.7	151.8
80°	124.6	144.0	163.5	167.4	190.7	186.8	144.0	146.0	136.2	112.9	110.9
82.5°	85.6	116.8	130.4	118.7	112.9	112.9	103.1	103.1	95.4	70.1	64.2
85°	52.5	77.8	81.7	70.1	52.5	52.5	56.4	54.5	50.6	37.0	35.0
87.5°	27.2	37.0	33.1	27.2	17.5	17.5	15.6	11.7	11.7	9.7	9.7
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)