

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: P479113

Luminaire Tested: **IFLD-M-SA4B-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479113
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

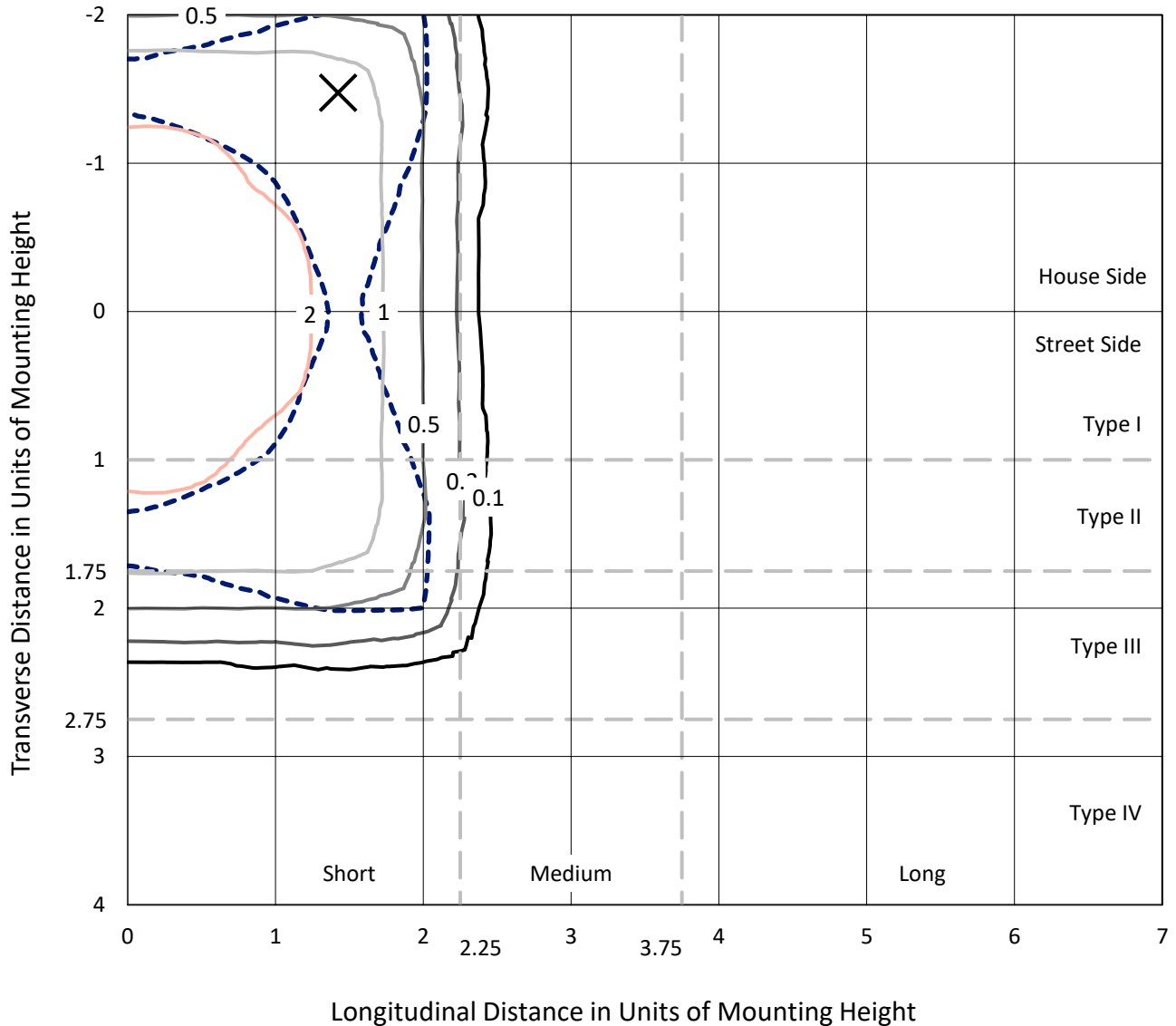
Lumens per Lamp: N/A
Luminaire Lumens: 18100.6 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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

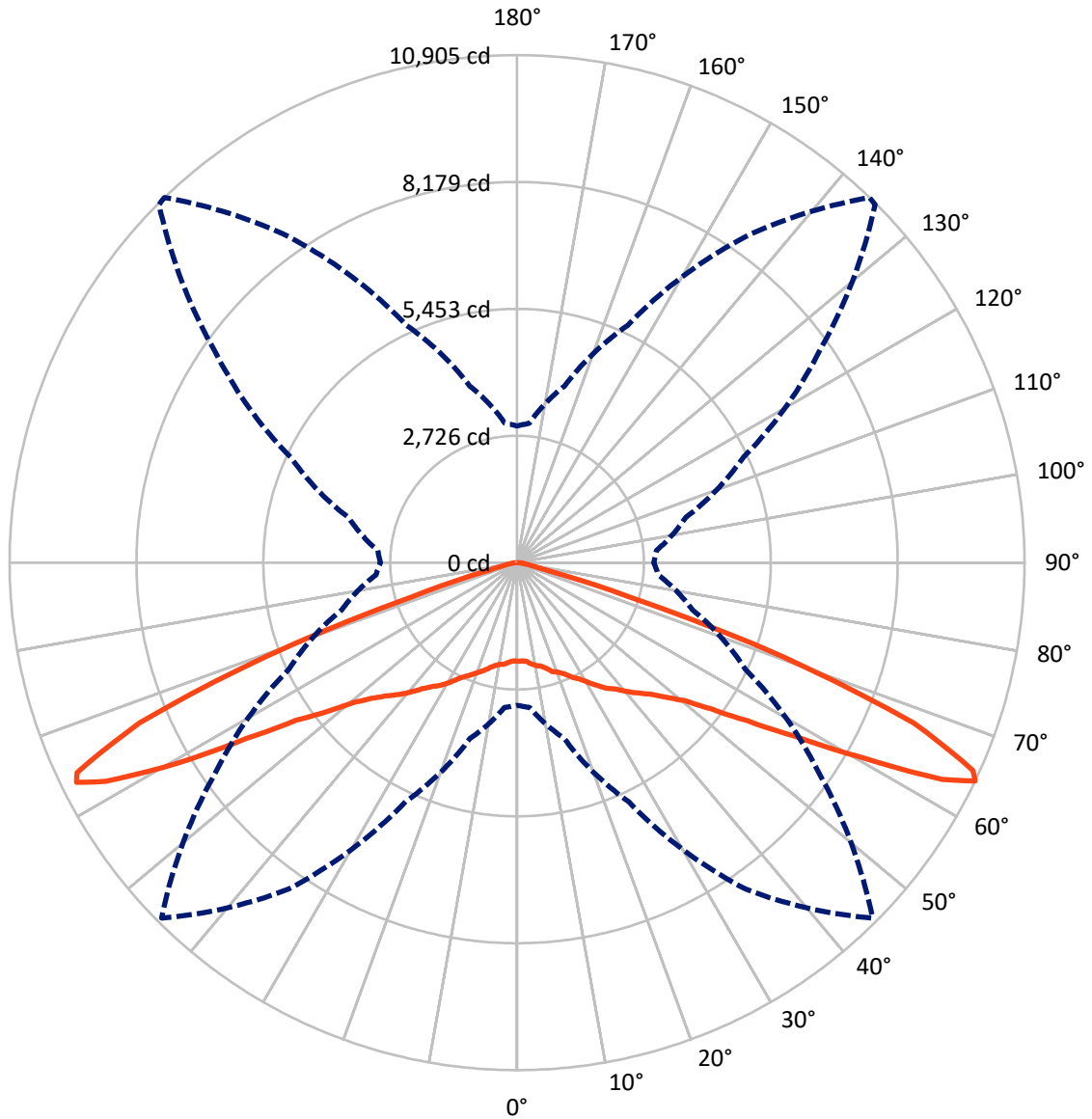
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	9058.9	0.0	9058.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9041.7	0.0	9041.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	18100.6	0.0	18100.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.2
10°-20°	671.1	3.7
20°-30°	1261.3	7.0
30°-40°	2080.1	11.5
40°-50°	3253.1	18.0
50°-60°	5256.3	29.0
60°-70°	4733.0	26.1
70°-80°	560.6	3.1
80°-90°	76.7	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°	18100.6	100.0
0°-180°	18100.6	100.0

Coefficient of Utilization



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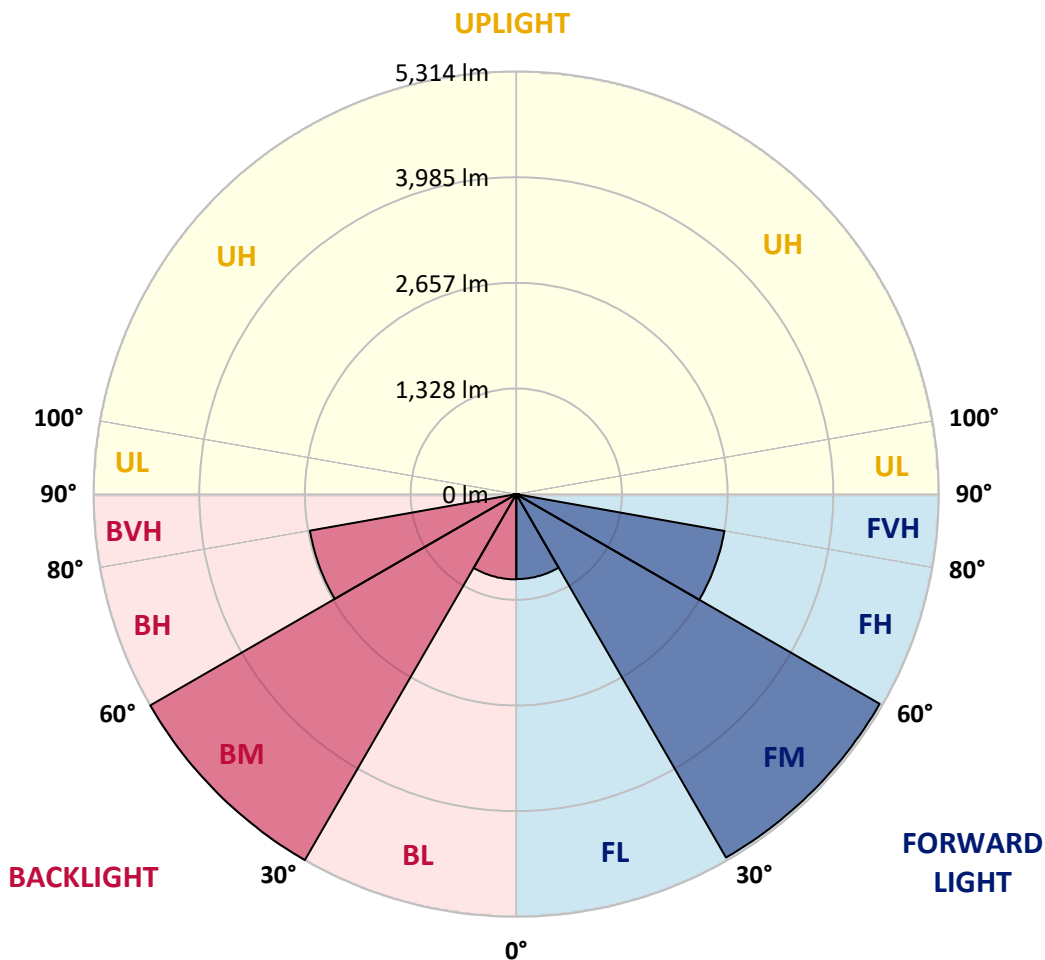
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.3	5.9			
FM (30°-60°)	5275.7	29.1			
FH (60°-80°)	2658.3	14.7			G2/5000
FVH (80°-90°)	39.4	0.2			G1/100
BL (0°-30°)	1072.4	5.9	B3/2500		
BM (30°-60°)	5313.8	29.4	B4/8500		
BH (60°-80°)	2635.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	37.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2
2.5°	2094.3	2098.4	2135.8	2121.3	2133.7	2110.9	2127.5	2162.8	2121.3	2152.4	2162.8
5°	2117.1	2123.4	2123.4	2137.9	2146.2	2142.0	2152.4	2137.9	2177.3	2160.7	2185.6
7.5°	2200.2	2189.8	2173.2	2185.6	2187.7	2198.1	2208.5	2227.1	2220.9	2206.4	2231.3
10°	2214.7	2206.4	2231.3	2233.4	2223.0	2214.7	2225.1	2225.1	2243.7	2247.9	2247.9
12.5°	2239.6	2247.9	2245.8	2262.4	2264.5	2258.3	2274.9	2306.0	2297.7	2303.9	2289.4
15°	2335.1	2324.7	2322.6	2339.2	2366.2	2326.8	2355.8	2353.7	2345.4	2357.9	2324.7
17.5°	2418.1	2384.9	2399.4	2426.4	2416.0	2424.3	2461.7	2428.5	2436.8	2422.2	2411.9
20°	2490.7	2463.8	2465.8	2476.2	2476.2	2501.1	2515.6	2503.2	2494.9	2492.8	2497.0
22.5°	2571.7	2540.6	2542.6	2586.2	2600.7	2592.4	2582.1	2602.8	2607.0	2590.4	2609.0
25°	2631.9	2665.1	2675.5	2696.2	2665.1	2687.9	2679.6	2719.1	2744.0	2710.8	2733.6
27.5°	2789.6	2775.1	2802.1	2800.0	2824.9	2802.1	2816.6	2829.1	2839.4	2841.5	2831.1
30°	2930.8	2937.0	2910.0	2982.7	2924.5	2961.9	2986.8	2993.0	3005.5	3005.5	2974.4
32.5°	3080.2	3067.8	3111.3	3094.7	3084.4	3113.4	3086.4	3171.5	3121.7	3150.8	3115.5
35°	3248.3	3248.3	3264.9	3310.6	3248.3	3229.7	3279.5	3314.8	3314.8	3262.9	3275.3
37.5°	3437.2	3420.6	3441.4	3499.5	3451.7	3389.5	3480.8	3495.3	3485.0	3470.4	3445.5
40°	3570.1	3565.9	3607.4	3684.2	3615.7	3603.3	3619.9	3659.3	3671.8	3686.3	3653.1
42.5°	3794.2	3812.9	3933.3	3914.6	3858.6	3815.0	3810.8	3958.2	3922.9	3885.6	3866.9
45°	4126.3	4109.7	4172.0	4174.1	4101.4	4005.9	4026.7	4161.6	4221.8	4138.8	4169.9
47.5°	4389.9	4398.2	4441.8	4531.1	4362.9	4263.3	4340.1	4558.1	4539.4	4508.2	4537.3
50°	4742.8	4780.1	4917.1	4886.0	4736.6	4614.1	4782.2	4987.7	5010.5	4896.4	4875.6
52.5°	5230.5	5288.7	5363.4	5388.3	5245.1	5201.5	5211.9	5467.2	5411.1	5301.1	5230.5
55°	5658.1	5685.1	5822.1	6027.6	6017.2	5807.6	5928.0	6023.4	5795.1	5568.9	5587.6
57.5°	5840.8	5853.2	6235.1	6646.1	6891.0	6938.8	6801.8	6480.1	5936.3	5500.4	5473.4
60°	5386.2	5504.5	5965.3	6893.1	8011.9	8564.0	7652.8	6532.0	5606.2	5077.0	5037.5
62.5°	4304.8	4311.1	4996.0	6403.3	8709.3	10156.0	7978.7	6044.2	4726.2	4126.3	3968.6
64°	3065.7	3123.8	3910.5	5668.5	8564.0	10803.6	7939.2	5407.0	3895.9	3044.9	2934.9
65°	2200.2	2281.1	3040.8	4921.3	8223.6	10726.8	7820.9	4859.0	3150.8	2324.7	2212.6
67.5°	809.5	842.7	1193.5	2461.7	5905.1	9141.0	6197.8	2671.3	1384.4	985.9	886.3
70°	375.7	377.8	442.1	813.6	2582.1	6112.7	2957.8	1002.5	521.0	413.0	384.0
72.5°	276.1	282.3	309.3	375.7	759.7	2588.3	971.4	411.0	305.1	269.8	263.6
75°	224.2	228.3	236.6	271.9	350.8	693.3	394.4	284.4	242.8	217.9	209.6
77.5°	172.3	172.3	191.0	207.6	232.5	323.8	261.5	226.2	197.2	172.3	166.0
80°	124.5	126.6	149.4	161.9	157.7	213.8	188.9	186.8	161.9	134.9	124.5
82.5°	72.6	78.9	107.9	116.2	112.1	126.6	137.0	145.3	126.6	93.4	85.1
85°	41.5	43.6	62.3	64.3	64.3	60.2	78.9	87.2	85.1	58.1	51.9
87.5°	12.5	12.5	16.6	16.6	18.7	20.8	31.1	37.4	41.5	29.1	27.0
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2	2119.2
2.5°	2152.4	2121.3	2123.4	2131.7	2104.7	2115.1	2146.2	2123.4	2117.1	2104.7	2098.4
5°	2142.0	2175.2	2162.8	2166.9	2160.7	2131.7	2127.5	2146.2	2156.6	2137.9	2175.2
7.5°	2214.7	2200.2	2183.5	2189.8	2175.2	2200.2	2216.8	2179.4	2198.1	2187.7	2166.9
10°	2256.2	2229.2	2241.7	2237.5	2227.1	2252.0	2235.4	2231.3	2214.7	2191.8	2225.1
12.5°	2270.7	2301.9	2322.6	2287.3	2293.6	2281.1	2270.7	2270.7	2252.0	2245.8	2252.0
15°	2335.1	2362.0	2353.7	2380.7	2345.4	2357.9	2370.4	2339.2	2355.8	2310.2	2345.4
17.5°	2453.4	2430.5	2459.6	2424.3	2436.8	2461.7	2422.2	2422.2	2434.7	2409.8	2378.7
20°	2528.1	2517.7	2507.3	2509.4	2488.7	2511.5	2499.0	2492.8	2474.1	2482.4	2499.0
22.5°	2598.7	2584.1	2588.3	2594.5	2609.0	2598.7	2592.4	2598.7	2553.0	2594.5	2536.4
25°	2685.8	2725.3	2712.8	2739.8	2698.3	2725.3	2723.2	2683.8	2708.7	2692.1	2679.6
27.5°	2831.1	2810.4	2829.1	2795.9	2824.9	2827.0	2802.1	2868.5	2839.4	2835.3	2827.0
30°	3017.9	3003.4	2991.0	2972.3	2995.1	2976.4	2997.2	3003.4	2976.4	2955.7	2916.2
32.5°	3123.8	3163.2	3177.8	3132.1	3134.2	3144.6	3125.9	3107.2	3123.8	3130.0	3123.8
35°	3273.2	3310.6	3318.9	3283.6	3264.9	3316.8	3279.5	3341.7	3287.8	3289.8	3233.8
37.5°	3447.6	3458.0	3528.5	3489.1	3472.5	3447.6	3516.1	3507.8	3520.2	3420.6	3470.4
40°	3644.8	3682.1	3721.6	3621.9	3619.9	3642.7	3638.6	3686.3	3663.5	3648.9	3613.6
42.5°	3860.6	3939.5	3945.7	3879.3	3837.8	3833.7	3854.4	3960.3	3962.3	3866.9	3825.4
45°	4147.1	4234.3	4211.4	4082.7	4037.1	4030.8	4132.5	4178.2	4217.6	4180.3	4145.0
47.5°	4504.1	4562.2	4545.6	4427.3	4279.9	4321.4	4421.1	4564.3	4522.8	4472.9	4431.4
50°	4886.0	4954.5	4919.2	4800.9	4659.8	4659.8	4782.2	4964.9	4952.4	4854.9	4817.5
52.5°	5309.4	5409.1	5490.0	5321.9	5203.6	5222.2	5415.3	5481.7	5450.6	5382.1	5350.9
55°	5624.9	5815.9	5981.9	5990.2	5996.5	5994.4	6044.2	6110.6	5888.5	5778.5	5666.4
57.5°	5548.1	5909.3	6478.0	6864.1	6978.2	7038.4	7021.8	6714.6	6189.5	5828.3	5865.7
60°	5000.2	5589.6	6507.1	7746.2	8576.4	8493.4	8190.4	6976.1	6023.4	5413.2	5336.4
62.5°	3989.3	4699.2	6019.3	7995.3	10282.6	10257.7	8671.9	6372.1	5018.8	4246.7	4199.0
64°	3005.5	3752.7	5369.6	7930.9	10880.4	10905.3	8549.5	5629.1	3927.1	3005.5	2932.8
65°	2299.8	2993.0	4732.4	7798.1	10751.7	10766.2	8209.1	4861.1	2984.7	2133.7	2054.9
67.5°	915.3	1274.4	2567.5	5913.4	9232.3	9192.9	5857.4	2351.7	1141.6	743.1	728.5
70°	390.2	485.7	900.8	2802.1	6181.2	6067.0	2521.9	763.8	423.4	354.9	352.9
72.5°	267.8	296.8	386.1	865.5	2569.6	2509.4	718.2	354.9	288.5	265.7	265.7
75°	215.9	236.6	280.2	363.2	680.8	655.9	338.3	261.5	230.4	213.8	211.7
77.5°	168.1	188.9	220.0	251.1	311.3	309.3	226.2	197.2	178.5	166.0	161.9
80°	132.8	153.6	174.4	178.5	203.4	199.3	153.6	155.7	145.3	120.4	118.3
82.5°	91.3	124.5	139.1	126.6	120.4	120.4	110.0	110.0	101.7	74.7	68.5
85°	56.0	83.0	87.2	74.7	56.0	56.0	60.2	58.1	54.0	39.4	37.4
87.5°	29.1	39.4	35.3	29.1	18.7	18.7	16.6	12.5	12.5	10.4	10.4
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)