

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: P479094

Luminaire Tested: **IFLD-S-SA3C-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479094
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

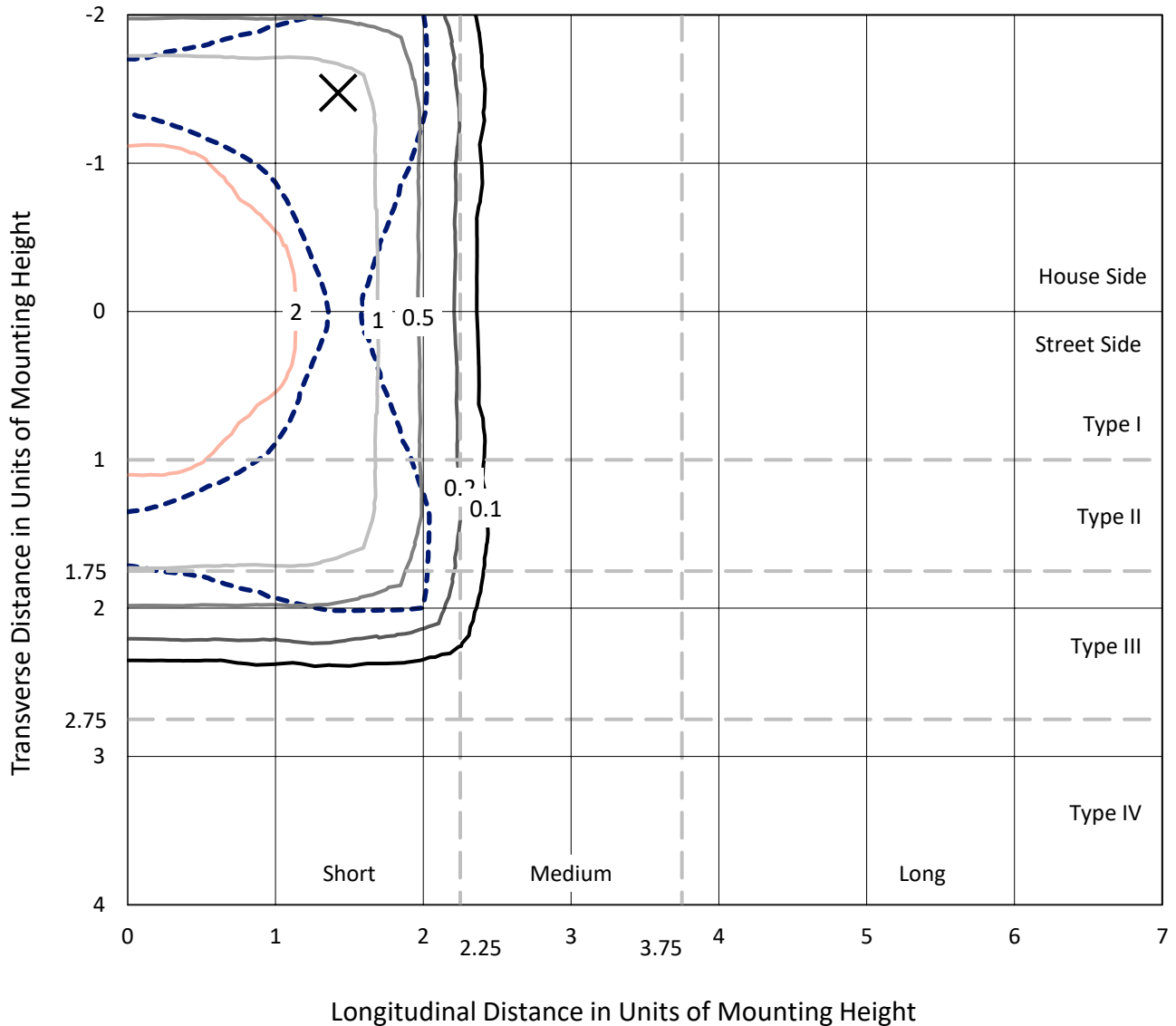
Lumens per Lamp: N/A
Luminaire Lumens: 16787 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 160.8
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

REPORT NUMBER: P479094
 CATALOG NUMBER: IFLD-S-SA3C-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

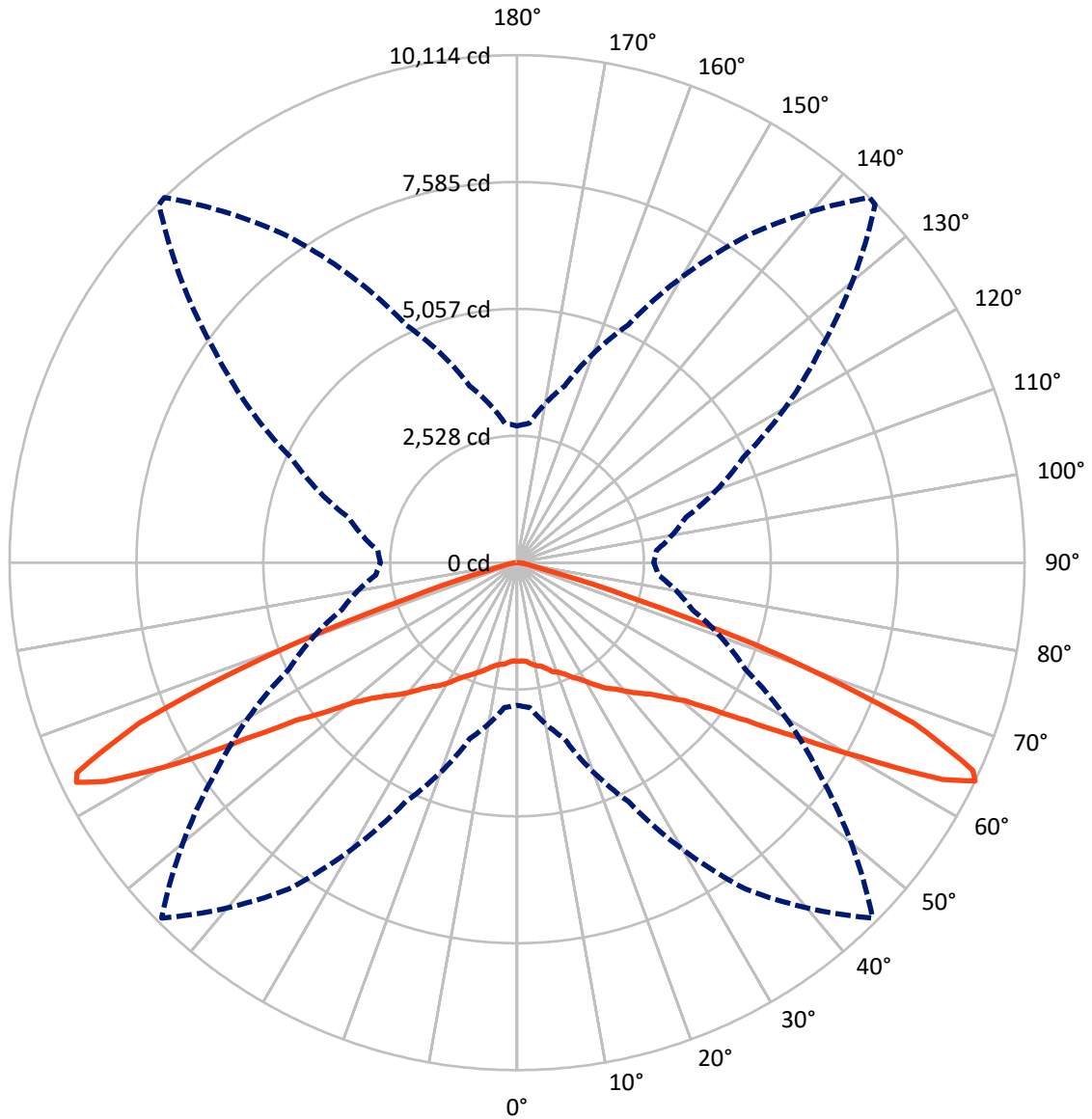
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

REPORT NUMBER: P479094
CATALOG NUMBER: IFLD-S-SA3C-830-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479094

CATALOG NUMBER: IFLD-S-SA3C-830-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8401.5	0.0	8401.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8385.5	0.0	8385.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16787.0	0.0	16787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	1.2
10°-20°	622.4	3.7
20°-30°	1169.8	7.0
30°-40°	1929.2	11.5
40°-50°	3017.1	18.0
50°-60°	4874.9	29.0
60°-70°	4389.5	26.1
70°-80°	519.9	3.1
80°-90°	71.2	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°	16787.0	100.0
0°-180°	16787.0	100.0

Coefficient of Utilization



REPORT NUMBER: P479094

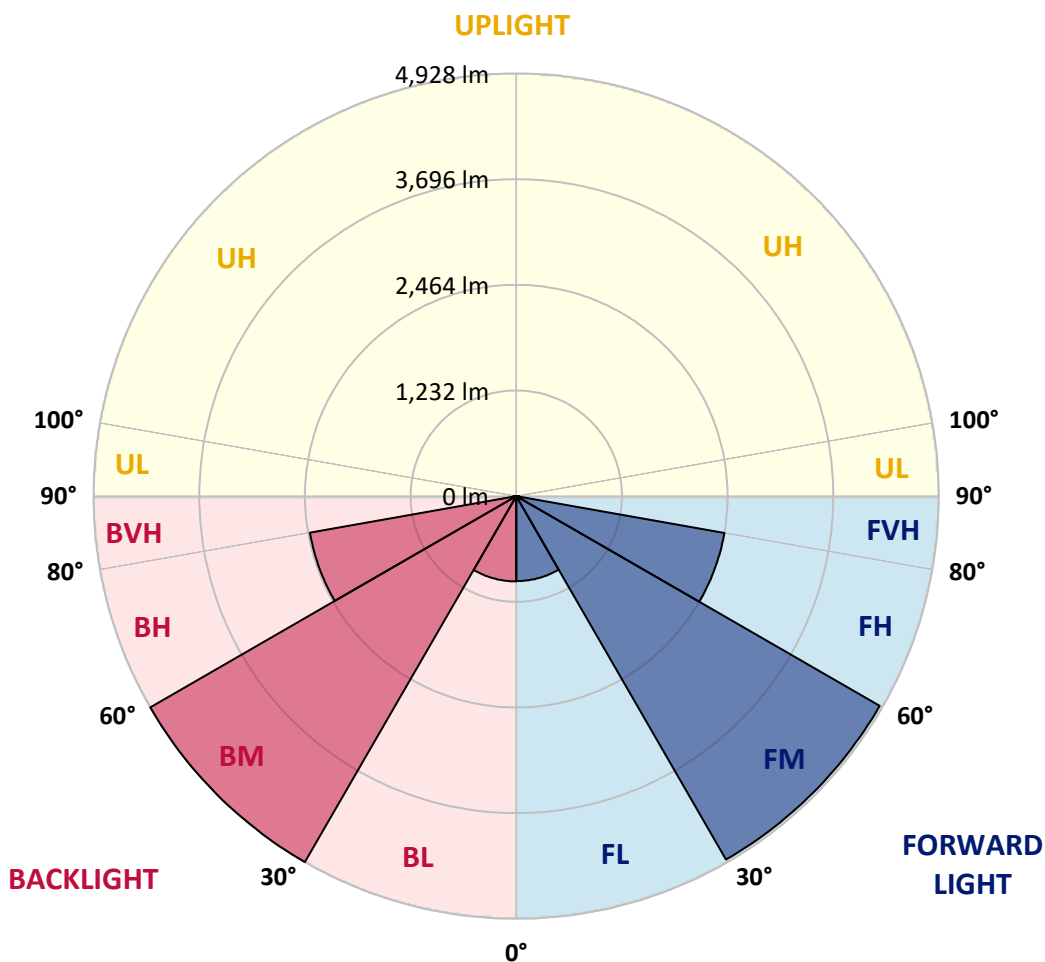
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.7	5.9			
FM (30°-60°)	4892.9	29.1			
FH (60°-80°)	2465.4	14.7			G2/5000
FVH (80°-90°)	36.5	0.2			G1/100
BL (0°-30°)	994.6	5.9	B2/1000		
BM (30°-60°)	4928.2	29.4	B3/5000		
BH (60°-80°)	2444.1	14.6	B3/2500		G2/5000
BVH (80°-90°)	34.7	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





REPORT NUMBER: P479094
 CATALOG NUMBER: IFLD-S-SA3C-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4
2.5°	1942.3	1946.2	1980.8	1967.3	1978.9	1957.7	1973.1	2005.8	1967.3	1996.2	2005.8
5°	1963.5	1969.3	1969.3	1982.7	1990.4	1986.6	1996.2	1982.7	2019.3	2003.9	2027.0
7.5°	2040.5	2030.9	2015.5	2027.0	2028.9	2038.6	2048.2	2065.5	2059.7	2046.3	2069.4
10°	2054.0	2046.3	2069.4	2071.3	2061.7	2054.0	2063.6	2063.6	2080.9	2084.8	2084.8
12.5°	2077.1	2084.8	2082.8	2098.2	2100.2	2094.4	2109.8	2138.7	2131.0	2136.7	2123.3
15°	2165.6	2156.0	2154.1	2169.5	2194.5	2157.9	2184.9	2182.9	2175.2	2186.8	2156.0
17.5°	2242.6	2211.8	2225.3	2250.3	2240.7	2248.4	2283.0	2252.2	2259.9	2246.5	2236.8
20°	2310.0	2285.0	2286.9	2296.5	2296.5	2319.6	2333.1	2321.5	2313.8	2311.9	2315.8
22.5°	2385.1	2356.2	2358.1	2398.5	2412.0	2404.3	2394.7	2413.9	2417.8	2402.4	2419.7
25°	2440.9	2471.7	2481.3	2500.6	2471.7	2492.9	2485.2	2521.7	2544.8	2514.0	2535.2
27.5°	2587.2	2573.7	2598.7	2596.8	2619.9	2598.7	2612.2	2623.8	2633.4	2635.3	2625.7
30°	2718.1	2723.9	2698.8	2766.2	2712.3	2747.0	2770.1	2775.8	2787.4	2787.4	2758.5
32.5°	2856.7	2845.1	2885.6	2870.2	2860.5	2887.5	2862.5	2941.4	2895.2	2922.1	2889.4
35°	3012.6	3012.6	3028.0	3070.4	3012.6	2995.3	3041.5	3074.2	3074.2	3026.1	3037.6
37.5°	3187.8	3172.4	3191.6	3245.5	3201.3	3143.5	3228.2	3241.7	3232.1	3218.6	3195.5
40°	3311.0	3307.1	3345.6	3416.9	3353.3	3341.8	3357.2	3393.8	3405.3	3418.8	3388.0
42.5°	3518.9	3536.2	3647.9	3630.5	3578.6	3538.1	3534.3	3670.9	3638.2	3603.6	3586.3
45°	3826.9	3811.5	3869.2	3871.1	3803.8	3715.2	3734.5	3859.6	3915.4	3838.4	3867.3
47.5°	4071.3	4079.0	4119.5	4202.2	4046.3	3953.9	4025.1	4227.3	4209.9	4181.1	4208.0
50°	4398.6	4433.2	4560.3	4531.4	4392.8	4279.2	4435.2	4625.7	4646.9	4541.0	4521.8
52.5°	4851.0	4904.9	4974.2	4997.3	4864.4	4824.0	4833.6	5070.4	5018.4	4916.4	4851.0
55°	5247.5	5272.5	5399.6	5590.2	5580.5	5386.1	5497.8	5586.3	5374.6	5164.7	5182.1
57.5°	5416.9	5428.5	5782.7	6163.8	6391.0	6435.2	6308.2	6009.8	5505.5	5101.2	5076.2
60°	4995.3	5105.1	5532.4	6392.9	7430.4	7942.5	7097.4	6057.9	5199.4	4708.5	4671.9
62.5°	3992.4	3998.2	4633.4	5938.6	8077.2	9419.0	7399.6	5605.6	4383.2	3826.9	3680.6
64°	2843.2	2897.1	3626.7	5257.1	7942.5	10019.6	7363.1	5014.6	3613.2	2824.0	2721.9
65°	2040.5	2115.6	2820.1	4564.1	7626.8	9948.3	7253.4	4506.4	2922.1	2156.0	2052.0
67.5°	750.7	781.5	1106.9	2283.0	5476.6	8477.6	5748.0	2477.5	1284.0	914.4	822.0
70°	348.4	350.3	410.0	754.6	2394.7	5669.1	2743.1	929.8	483.2	383.1	356.1
72.5°	256.0	261.8	286.8	348.4	704.5	2400.5	900.9	381.1	283.0	250.2	244.5
75°	207.9	211.7	219.4	252.2	325.3	642.9	365.7	263.7	225.2	202.1	194.4
77.5°	159.8	159.8	177.1	192.5	215.6	300.3	242.5	209.8	182.9	159.8	154.0
80°	115.5	117.4	138.6	150.1	146.3	198.3	175.2	173.2	150.1	125.1	115.5
82.5°	67.4	73.1	100.1	107.8	103.9	117.4	127.0	134.7	117.4	86.6	78.9
85°	38.5	40.4	57.7	59.7	59.7	55.8	73.1	80.8	78.9	53.9	48.1
87.5°	11.5	11.5	15.4	15.4	17.3	19.2	28.9	34.6	38.5	26.9	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479094
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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4	1965.4
2.5°	1996.2	1967.3	1969.3	1977.0	1951.9	1961.6	1990.4	1969.3	1963.5	1951.9	1946.2
5°	1986.6	2017.4	2005.8	2009.7	2003.9	1977.0	1973.1	1990.4	2000.1	1982.7	2017.4
7.5°	2054.0	2040.5	2025.1	2030.9	2017.4	2040.5	2055.9	2021.2	2038.6	2028.9	2009.7
10°	2092.5	2067.4	2079.0	2075.1	2065.5	2088.6	2073.2	2069.4	2054.0	2032.8	2063.6
12.5°	2105.9	2134.8	2154.1	2121.3	2127.1	2115.6	2105.9	2105.9	2088.6	2082.8	2088.6
15°	2165.6	2190.6	2182.9	2208.0	2175.2	2186.8	2198.3	2169.5	2184.9	2142.5	2175.2
17.5°	2275.3	2254.2	2281.1	2248.4	2259.9	2283.0	2246.5	2246.5	2258.0	2234.9	2206.0
20°	2344.6	2335.0	2325.4	2327.3	2308.1	2329.2	2317.7	2311.9	2294.6	2302.3	2317.7
22.5°	2410.1	2396.6	2400.5	2406.2	2419.7	2410.1	2404.3	2410.1	2367.7	2406.2	2352.3
25°	2490.9	2527.5	2516.0	2541.0	2502.5	2527.5	2525.6	2489.0	2512.1	2496.7	2485.2
27.5°	2625.7	2606.4	2623.8	2593.0	2619.9	2621.8	2598.7	2660.3	2633.4	2629.5	2621.8
30°	2798.9	2785.5	2773.9	2756.6	2777.8	2760.4	2779.7	2785.5	2760.4	2741.2	2704.6
32.5°	2897.1	2933.7	2947.2	2904.8	2906.7	2916.4	2899.0	2881.7	2897.1	2902.9	2897.1
35°	3035.7	3070.4	3078.1	3045.3	3028.0	3076.1	3041.5	3099.2	3049.2	3051.1	2999.1
37.5°	3197.4	3207.0	3272.5	3235.9	3220.5	3197.4	3260.9	3253.2	3264.8	3172.4	3218.6
40°	3380.3	3414.9	3451.5	3359.1	3357.2	3378.4	3374.5	3418.8	3397.6	3384.1	3351.4
42.5°	3580.5	3653.6	3659.4	3597.8	3559.3	3555.5	3574.7	3672.9	3674.8	3586.3	3547.8
45°	3846.1	3927.0	3905.8	3786.4	3744.1	3738.3	3832.6	3875.0	3911.6	3876.9	3844.2
47.5°	4177.2	4231.1	4215.7	4106.0	3969.3	4007.8	4100.2	4233.0	4194.5	4148.3	4109.8
50°	4531.4	4594.9	4562.2	4452.5	4321.6	4321.6	4435.2	4604.6	4593.0	4502.5	4467.9
52.5°	4924.1	5016.5	5091.6	4935.7	4825.9	4843.3	5022.3	5083.9	5055.0	4991.5	4962.6
55°	5216.7	5393.8	5547.8	5555.5	5561.3	5559.4	5605.6	5667.2	5461.2	5359.2	5255.2
57.5°	5145.5	5480.4	6007.9	6365.9	6471.8	6527.6	6512.2	6227.3	5740.3	5405.4	5440.0
60°	4637.3	5184.0	6034.8	7184.1	7954.0	7877.0	7596.0	6469.9	5586.3	5020.4	4949.1
62.5°	3699.8	4358.2	5582.5	7415.0	9536.4	9513.3	8042.6	5909.7	4654.6	3938.5	3894.2
64°	2787.4	3480.4	4979.9	7355.4	10090.8	10113.9	7929.0	5220.6	3642.1	2787.4	2720.0
65°	2132.9	2775.8	4389.0	7232.2	9971.4	9984.9	7613.3	4508.3	2768.1	1978.9	1905.7
67.5°	848.9	1181.9	2381.2	5484.3	8562.3	8525.8	5432.3	2181.0	1058.7	689.1	675.7
70°	361.9	450.4	835.4	2598.7	5732.6	5626.7	2338.9	708.4	392.7	329.2	327.2
72.5°	248.3	275.3	358.0	802.7	2383.1	2327.3	666.0	329.2	267.6	246.4	246.4
75°	200.2	219.4	259.9	336.9	631.4	608.3	313.8	242.5	213.7	198.3	196.3
77.5°	155.9	175.2	204.0	232.9	288.7	286.8	209.8	182.9	165.5	154.0	150.1
80°	123.2	142.4	161.7	165.5	188.6	184.8	142.4	144.4	134.7	111.6	109.7
82.5°	84.7	115.5	129.0	117.4	111.6	111.6	102.0	102.0	94.3	69.3	63.5
85°	52.0	77.0	80.8	69.3	52.0	52.0	55.8	53.9	50.0	36.6	34.6
87.5°	26.9	36.6	32.7	26.9	17.3	17.3	15.4	11.5	11.5	9.6	9.6
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)