

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: P479095

Luminaire Tested: **IFLD-S-SA3D-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479095
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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

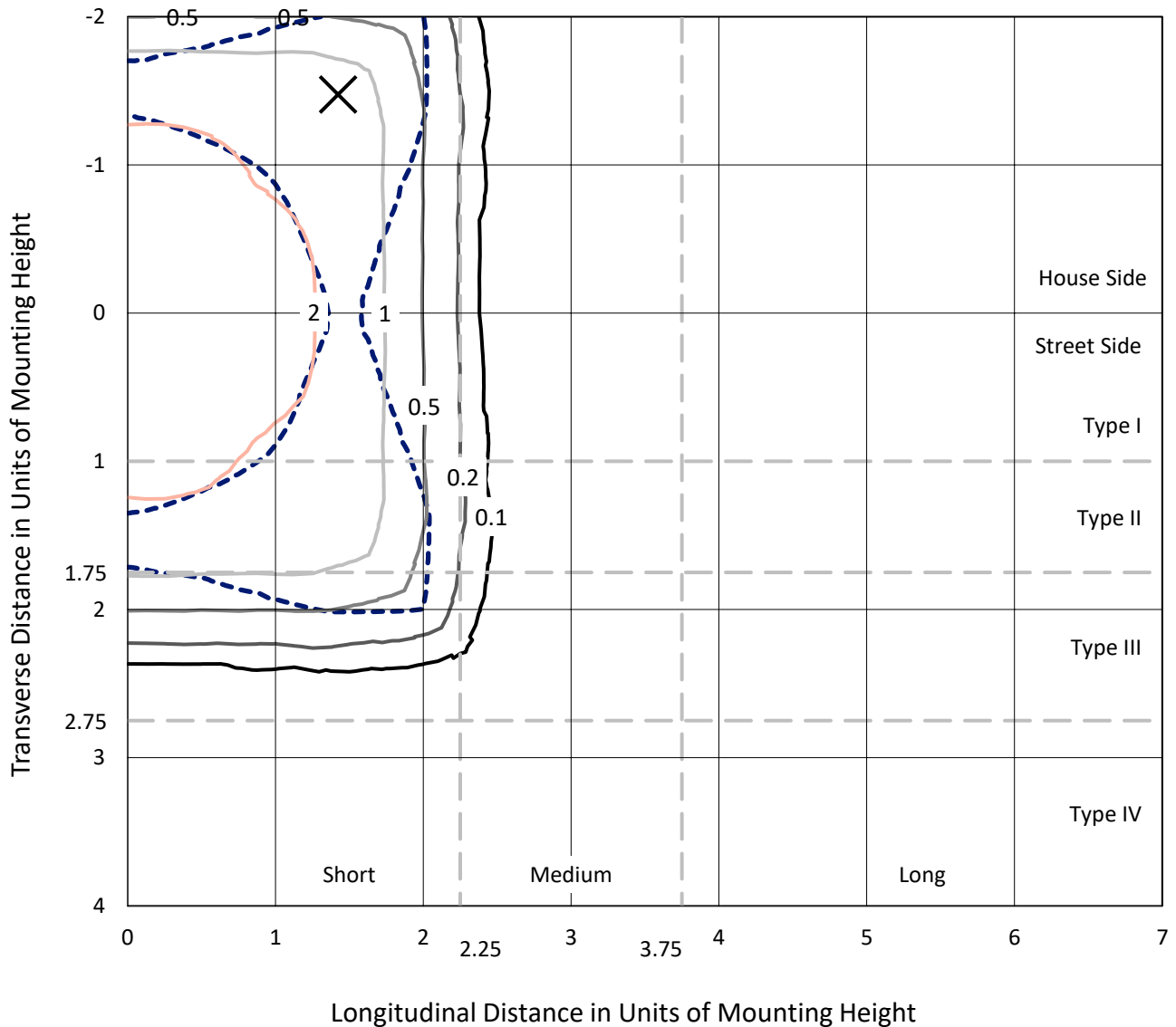
Lumens per Lamp: N/A
Luminaire Lumens: 18471.1 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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

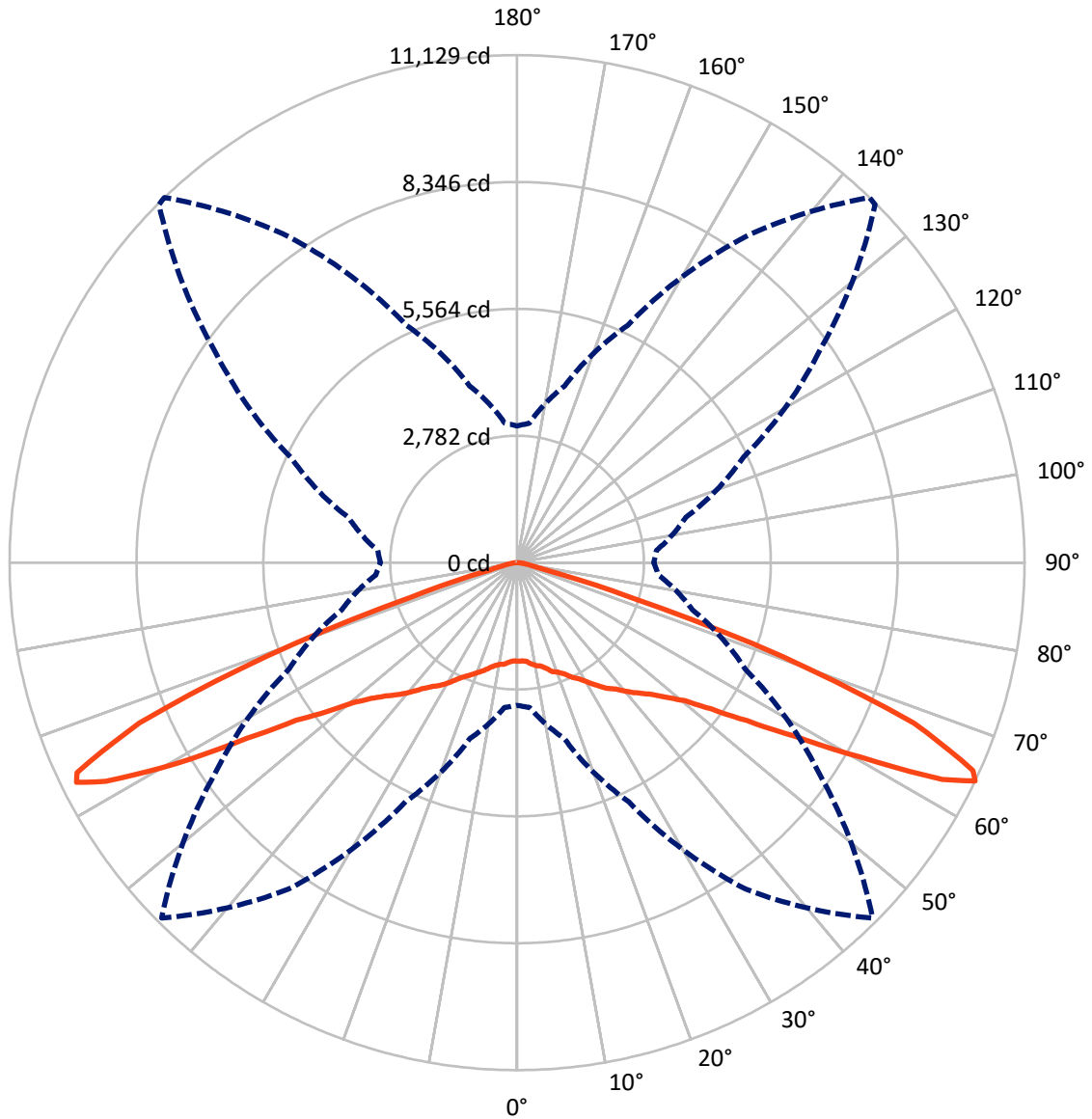
× Max cd
 - - - 1/2 Max cd



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	9244.4	0.0	9244.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9226.7	0.0	9226.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	18471.1	0.0	18471.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	1.2
10°-20°	684.9	3.7
20°-30°	1287.1	7.0
30°-40°	2122.7	11.5
40°-50°	3319.7	18.0
50°-60°	5363.9	29.0
60°-70°	4829.8	26.1
70°-80°	572.1	3.1
80°-90°	78.3	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°	18471.1	100.0
0°-180°	18471.1	100.0

Coefficient of Utilization



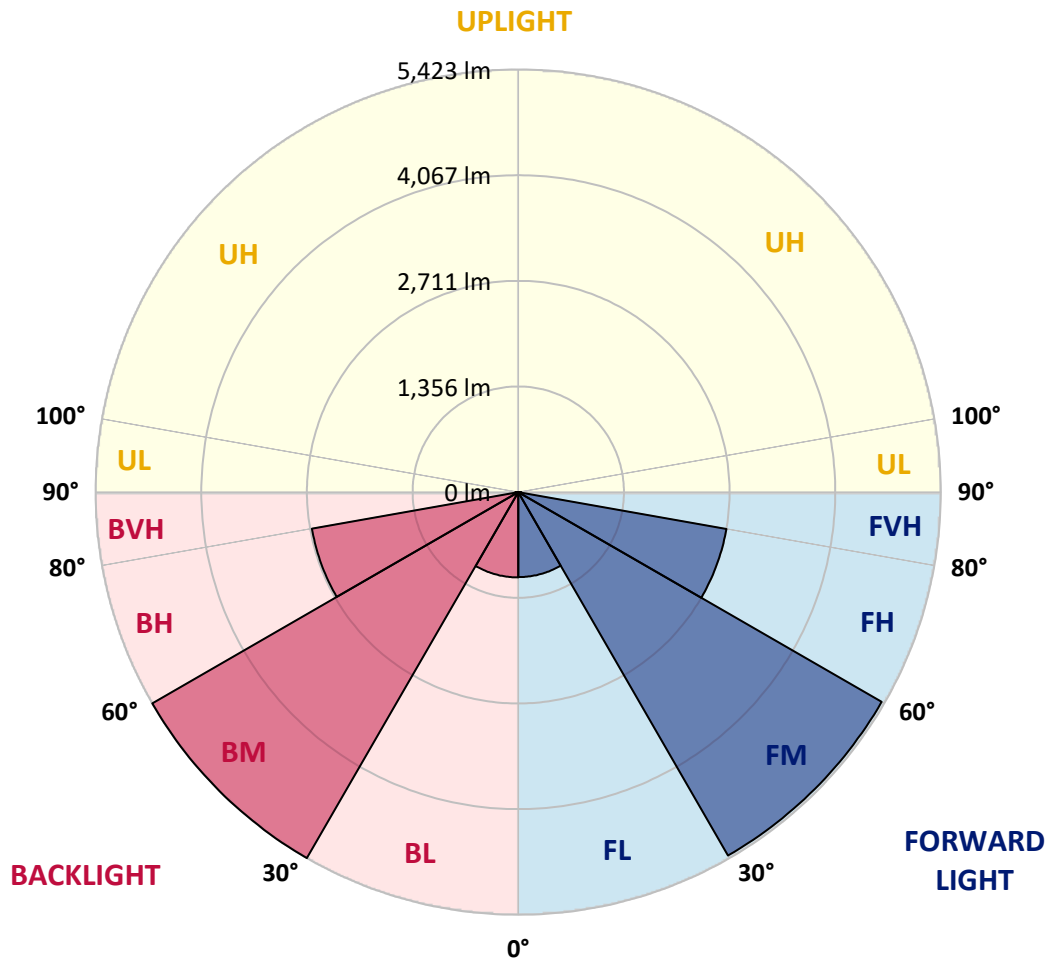
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.1	5.9			
FM (30°-60°)	5383.8	29.1			
FH (60°-80°)	2712.7	14.7			G2/5000
FVH (80°-90°)	40.2	0.2			G1/100
BL (0°-30°)	1094.3	5.9	B3/2500		
BM (30°-60°)	5422.6	29.4	B4/8500		
BH (60°-80°)	2689.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	38.1	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°	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6
2.5°	2137.2	2141.4	2179.5	2164.7	2177.4	2154.1	2171.1	2207.1	2164.7	2196.5	2207.1
5°	2160.5	2166.8	2166.8	2181.6	2190.1	2185.9	2196.5	2181.6	2221.9	2204.9	2230.4
7.5°	2245.2	2234.6	2217.7	2230.4	2232.5	2243.1	2253.7	2272.7	2266.4	2251.5	2277.0
10°	2260.0	2251.5	2277.0	2279.1	2268.5	2260.0	2270.6	2270.6	2289.7	2293.9	2293.9
12.5°	2285.4	2293.9	2291.8	2308.7	2310.9	2304.5	2321.4	2353.2	2344.7	2351.1	2336.3
15°	2382.9	2372.3	2370.2	2387.1	2414.6	2374.4	2404.1	2401.9	2393.5	2406.2	2372.3
17.5°	2467.6	2433.7	2448.5	2476.1	2465.5	2473.9	2512.1	2478.2	2486.7	2471.8	2461.2
20°	2541.7	2514.2	2516.3	2526.9	2526.9	2552.3	2567.1	2554.4	2546.0	2543.8	2548.1
22.5°	2624.3	2592.6	2594.7	2639.2	2654.0	2645.5	2634.9	2656.1	2660.3	2643.4	2662.5
25°	2685.8	2719.6	2730.2	2751.4	2719.6	2742.9	2734.5	2774.7	2800.1	2766.2	2789.5
27.5°	2846.7	2831.9	2859.4	2857.3	2882.7	2859.4	2874.3	2887.0	2897.6	2899.7	2889.1
30°	2990.8	2997.1	2969.6	3043.7	2984.4	3022.5	3048.0	3054.3	3067.0	3067.0	3035.2
32.5°	3143.3	3130.6	3175.0	3158.1	3147.5	3177.2	3149.6	3236.5	3185.6	3215.3	3179.3
35°	3314.8	3314.8	3331.8	3378.4	3314.8	3295.8	3346.6	3382.6	3382.6	3329.7	3342.4
37.5°	3507.6	3490.6	3511.8	3571.1	3522.4	3458.9	3552.1	3566.9	3556.3	3541.5	3516.1
40°	3643.1	3638.9	3681.3	3759.6	3689.7	3677.0	3694.0	3734.2	3746.9	3761.8	3727.9
42.5°	3871.9	3891.0	4013.8	3994.7	3937.6	3893.1	3888.8	4039.2	4003.2	3965.1	3946.0
45°	4210.8	4193.9	4257.4	4259.5	4185.4	4087.9	4109.1	4246.8	4308.2	4223.5	4255.3
47.5°	4479.8	4488.3	4532.7	4623.8	4452.3	4350.6	4429.0	4651.4	4632.3	4600.5	4630.2
50°	4839.9	4878.0	5017.8	4986.0	4833.5	4708.6	4880.1	5089.8	5113.1	4996.6	4975.4
52.5°	5337.6	5396.9	5473.2	5498.6	5352.5	5308.0	5318.6	5579.1	5521.9	5409.6	5337.6
55°	5774.0	5801.5	5941.3	6151.0	6140.4	5926.5	6049.3	6146.7	5913.8	5682.9	5701.9
57.5°	5960.4	5973.1	6362.8	6782.2	7032.1	7080.8	6941.0	6612.7	6057.8	5613.0	5585.4
60°	5496.5	5617.2	6087.4	7034.2	8175.9	8739.3	7809.5	6665.7	5721.0	5180.9	5140.6
62.5°	4393.0	4399.3	5098.3	6534.4	8887.6	10363.9	8142.0	6167.9	4822.9	4210.8	4049.8
64°	3128.4	3187.8	3990.5	5784.5	8739.3	11024.7	8101.8	5517.7	3975.7	3107.3	2995.0
65°	2245.2	2327.8	3103.0	5022.0	8391.9	10946.4	7981.0	4958.5	3215.3	2372.3	2257.9
67.5°	826.1	860.0	1217.9	2512.1	6026.0	9328.1	6324.7	2726.0	1412.8	1006.1	904.4
70°	383.4	385.5	451.2	830.3	2634.9	6237.8	3018.3	1023.0	531.6	421.5	391.8
72.5°	281.7	288.1	315.6	383.4	775.2	2641.3	991.3	419.4	311.4	275.4	269.0
75°	228.8	233.0	241.5	277.5	358.0	707.4	402.4	290.2	247.8	222.4	213.9
77.5°	175.8	175.8	194.9	211.8	237.2	330.4	266.9	230.9	201.2	175.8	169.4
80°	127.1	129.2	152.5	165.2	161.0	218.2	192.7	190.6	165.2	137.7	127.1
82.5°	74.1	80.5	110.1	118.6	114.4	129.2	139.8	148.3	129.2	95.3	86.8
85°	42.4	44.5	63.5	65.7	65.7	61.4	80.5	89.0	86.8	59.3	53.0
87.5°	12.7	12.7	16.9	16.9	19.1	21.2	31.8	38.1	42.4	29.7	27.5
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°	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6
2.5°	2196.5	2164.7	2166.8	2175.3	2147.8	2158.4	2190.1	2166.8	2160.5	2147.8	2141.4
5°	2185.9	2219.8	2207.1	2211.3	2204.9	2175.3	2171.1	2190.1	2200.7	2181.6	2219.8
7.5°	2260.0	2245.2	2228.2	2234.6	2219.8	2245.2	2262.1	2224.0	2243.1	2232.5	2211.3
10°	2302.4	2274.8	2287.6	2283.3	2272.7	2298.1	2281.2	2277.0	2260.0	2236.7	2270.6
12.5°	2317.2	2349.0	2370.2	2334.2	2340.5	2327.8	2317.2	2317.2	2298.1	2291.8	2298.1
15°	2382.9	2410.4	2401.9	2429.5	2393.5	2406.2	2418.9	2387.1	2404.1	2357.5	2393.5
17.5°	2503.6	2480.3	2510.0	2473.9	2486.7	2512.1	2471.8	2471.8	2484.5	2459.1	2427.4
20°	2579.9	2569.3	2558.7	2560.8	2539.6	2562.9	2550.2	2543.8	2524.8	2533.3	2550.2
22.5°	2651.9	2637.0	2641.3	2647.6	2662.5	2651.9	2645.5	2651.9	2605.3	2647.6	2588.3
25°	2740.8	2781.1	2768.4	2795.9	2753.5	2781.1	2779.0	2738.7	2764.1	2747.2	2734.5
27.5°	2889.1	2867.9	2887.0	2853.1	2882.7	2884.9	2859.4	2927.2	2897.6	2893.3	2884.9
30°	3079.7	3064.9	3052.2	3033.1	3056.4	3037.4	3058.5	3064.9	3037.4	3016.2	2975.9
32.5°	3187.8	3228.0	3242.8	3196.2	3198.3	3208.9	3189.9	3170.8	3187.8	3194.1	3187.8
35°	3340.3	3378.4	3386.9	3350.8	3331.8	3384.7	3346.6	3410.2	3355.1	3357.2	3300.0
37.5°	3518.2	3528.8	3600.8	3560.5	3543.6	3518.2	3588.1	3579.6	3592.3	3490.6	3541.5
40°	3719.4	3757.5	3797.8	3696.1	3694.0	3717.3	3713.0	3761.8	3738.5	3723.6	3687.6
42.5°	3939.7	4020.2	4026.5	3958.7	3916.4	3912.1	3933.3	4041.3	4043.5	3946.0	3903.7
45°	4232.0	4320.9	4297.6	4166.3	4119.7	4113.4	4217.2	4263.7	4304.0	4265.9	4229.9
47.5°	4596.3	4655.6	4638.7	4517.9	4367.5	4409.9	4511.6	4657.7	4615.4	4564.5	4522.2
50°	4986.0	5055.9	5019.9	4899.2	4755.1	4755.1	4880.1	5066.5	5053.8	4954.3	4916.1
52.5°	5418.1	5519.8	5602.4	5430.8	5310.1	5329.2	5526.1	5593.9	5562.1	5492.3	5460.5
55°	5740.1	5934.9	6104.4	6112.9	6119.2	6117.1	6167.9	6235.7	6009.1	5896.8	5782.4
57.5°	5661.7	6030.2	6610.6	7004.6	7121.1	7182.5	7165.6	6852.1	6316.2	5947.6	5985.8
60°	5102.5	5704.1	6640.3	7904.8	8752.0	8667.3	8358.0	7119.0	6146.7	5524.0	5445.7
62.5°	4071.0	4795.4	6142.5	8158.9	10493.1	10467.7	8849.4	6502.6	5121.6	4333.6	4284.9
64°	3067.0	3829.5	5479.5	8093.3	11103.1	11128.5	8724.5	5744.3	4007.5	3067.0	2992.9
65°	2346.9	3054.3	4829.3	7957.7	10971.8	10986.6	8377.1	4960.6	3045.8	2177.4	2096.9
67.5°	934.1	1300.5	2620.1	6034.5	9421.3	9381.1	5977.3	2399.8	1165.0	758.3	743.5
70°	398.2	495.6	919.3	2859.4	6307.7	6191.2	2573.5	779.5	432.1	362.2	360.1
72.5°	273.2	302.9	394.0	883.3	2622.2	2560.8	732.9	362.2	294.4	271.1	271.1
75°	220.3	241.5	285.9	370.7	694.7	669.3	345.3	266.9	235.1	218.2	216.0
77.5°	171.6	192.7	224.5	256.3	317.7	315.6	230.9	201.2	182.2	169.4	165.2
80°	135.6	156.7	177.9	182.2	207.6	203.3	156.7	158.9	148.3	122.9	120.7
82.5°	93.2	127.1	141.9	129.2	122.9	122.9	112.3	112.3	103.8	76.3	69.9
85°	57.2	84.7	89.0	76.3	57.2	57.2	61.4	59.3	55.1	40.2	38.1
87.5°	29.7	40.2	36.0	29.7	19.1	19.1	16.9	12.7	12.7	10.6	10.6
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)