

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: P478973

Luminaire Tested: **IFLD-S-SA2D-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478973
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

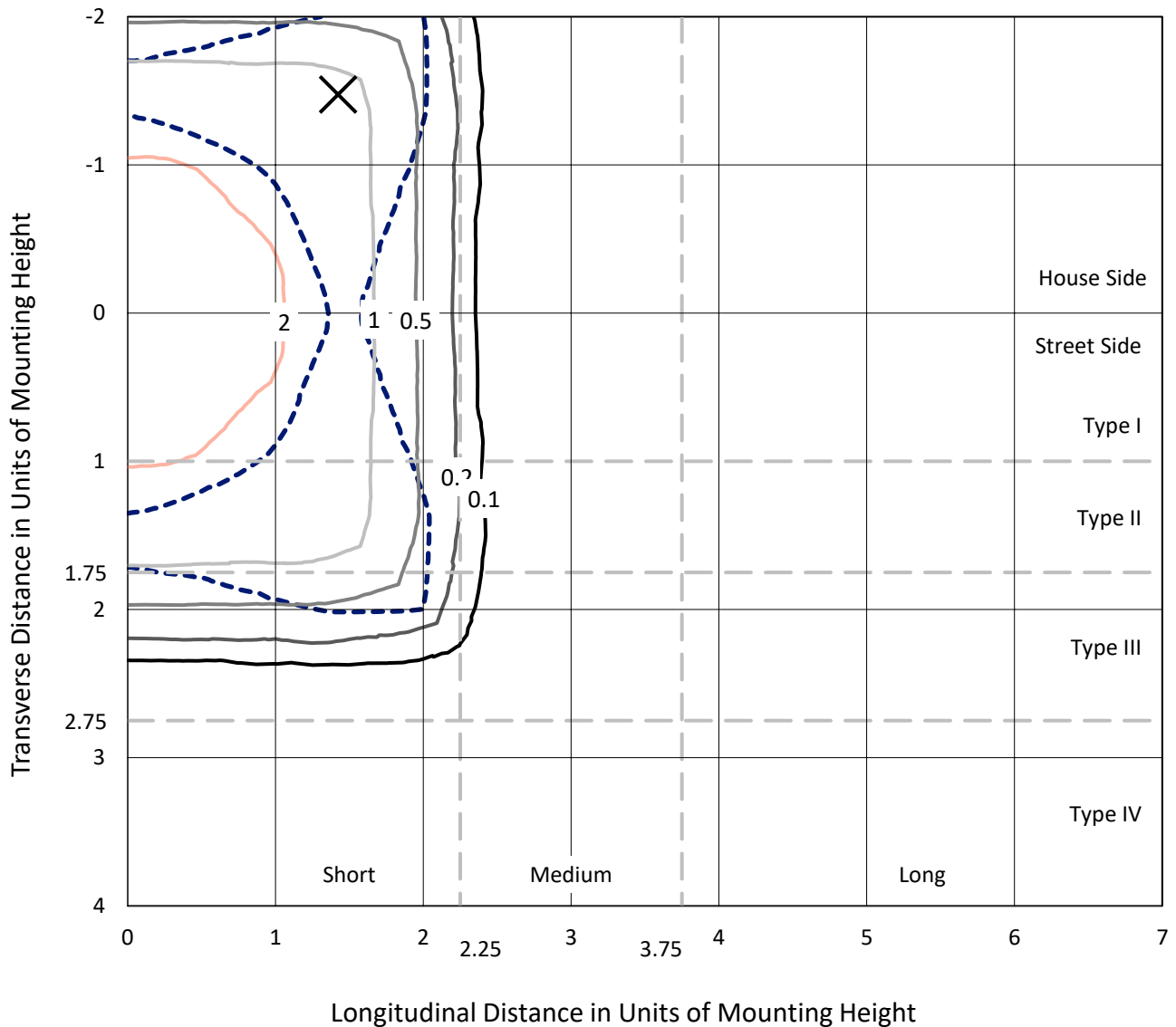
Lumens per Lamp: N/A
Luminaire Lumens: 15955.6 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 123.9
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

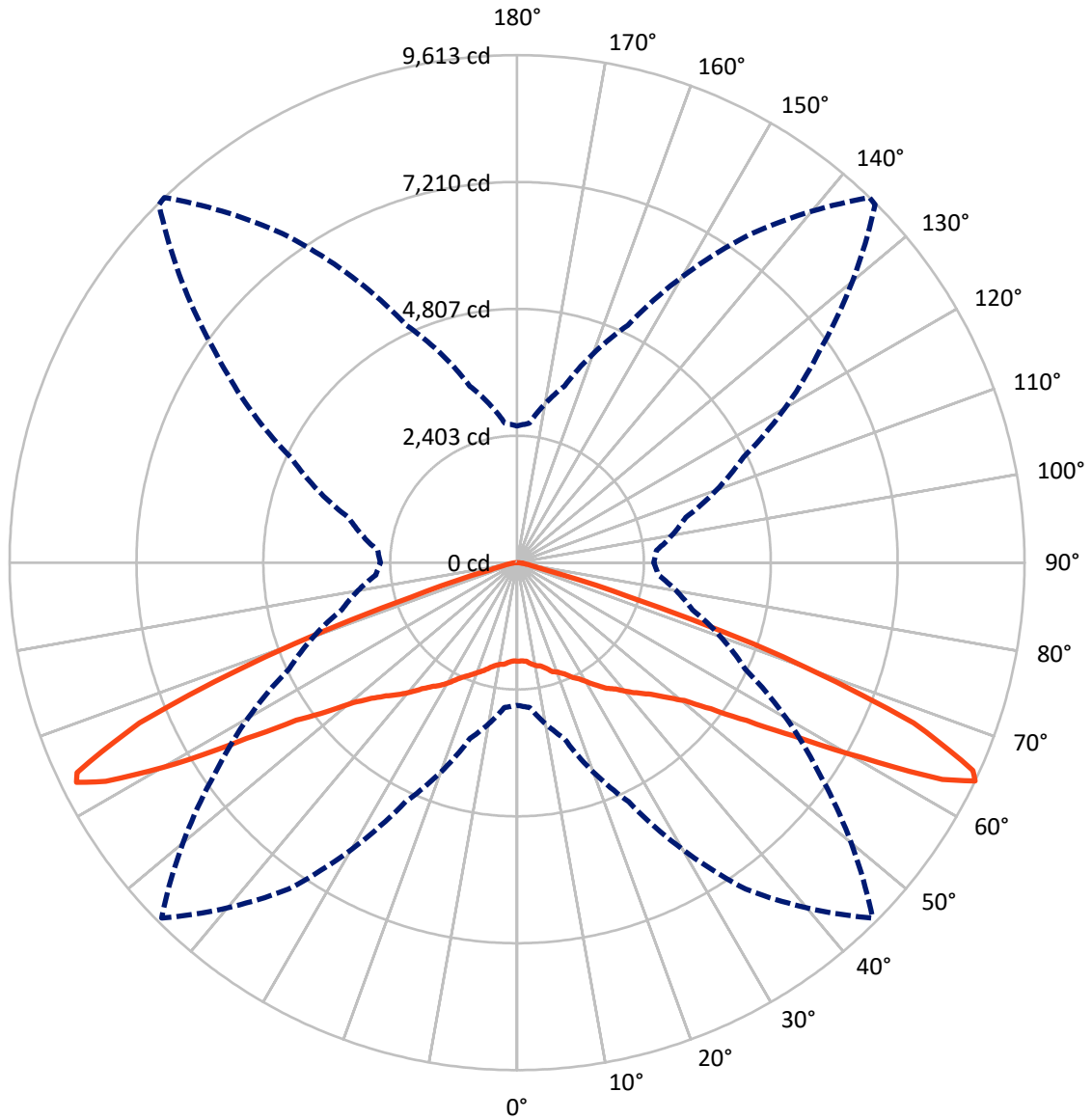
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	7985.4	0.0	7985.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7970.2	0.0	7970.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15955.6	0.0	15955.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	1.2
10°-20°	591.6	3.7
20°-30°	1111.8	7.0
30°-40°	1833.6	11.5
40°-50°	2867.7	18.0
50°-60°	4633.4	29.0
60°-70°	4172.1	26.1
70°-80°	494.2	3.1
80°-90°	67.6	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°	15955.6	100.0
0°-180°	15955.6	100.0

Coefficient of Utilization



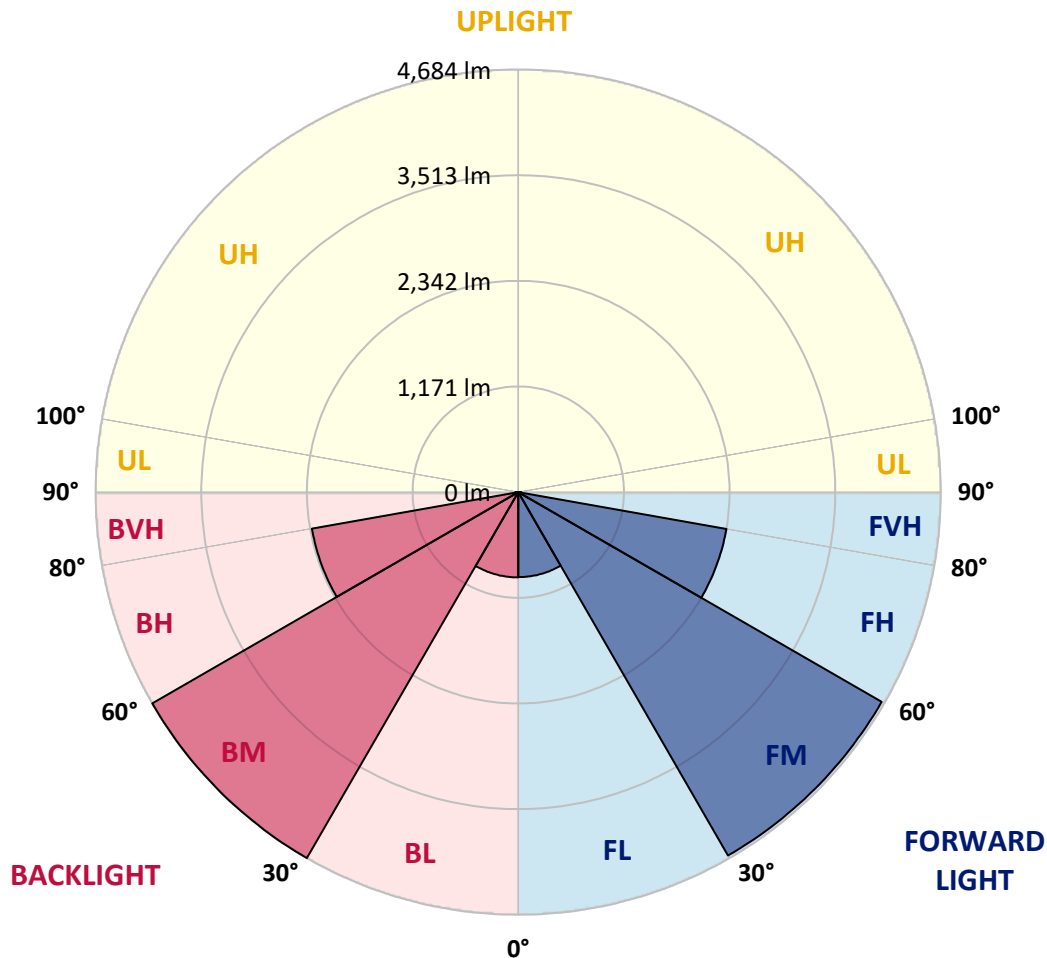
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.7	5.9			
FM (30°-60°)	4650.6	29.1			
FH (60°-80°)	2343.3	14.7			G2/5000
FVH (80°-90°)	34.7	0.2			G1/100
BL (0°-30°)	945.3	5.9	B2/1000		
BM (30°-60°)	4684.1	29.4	B3/5000		
BH (60°-80°)	2323.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	32.9	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°	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1
2.5°	1846.1	1849.8	1882.7	1869.9	1880.9	1860.8	1875.4	1906.5	1869.9	1897.4	1906.5
5°	1866.2	1871.7	1871.7	1884.5	1891.9	1888.2	1897.4	1884.5	1919.3	1904.7	1926.6
7.5°	1939.4	1930.3	1915.6	1926.6	1928.5	1937.6	1946.8	1963.2	1957.7	1944.9	1966.9
10°	1952.2	1944.9	1966.9	1968.7	1959.6	1952.2	1961.4	1961.4	1977.9	1981.5	1981.5
12.5°	1974.2	1981.5	1979.7	1994.3	1996.2	1990.7	2005.3	2032.7	2025.4	2030.9	2018.1
15°	2058.4	2049.2	2047.4	2062.0	2085.8	2051.0	2076.7	2074.8	2067.5	2078.5	2049.2
17.5°	2131.5	2102.3	2115.1	2138.9	2129.7	2137.0	2170.0	2140.7	2148.0	2135.2	2126.1
20°	2195.6	2171.8	2173.6	2182.8	2182.8	2204.7	2217.5	2206.6	2199.2	2197.4	2201.1
22.5°	2266.9	2239.5	2241.3	2279.8	2292.6	2285.2	2276.1	2294.4	2298.0	2283.4	2299.9
25°	2320.0	2349.3	2358.4	2376.7	2349.3	2369.4	2362.1	2396.8	2418.8	2389.5	2409.7
27.5°	2459.1	2446.2	2470.0	2468.2	2490.2	2470.0	2482.8	2493.8	2503.0	2504.8	2495.7
30°	2583.5	2589.0	2565.2	2629.2	2578.0	2610.9	2632.9	2638.4	2649.3	2649.3	2621.9
32.5°	2715.2	2704.2	2742.7	2728.0	2718.9	2744.5	2720.7	2795.7	2751.8	2777.4	2746.3
35°	2863.4	2863.4	2878.0	2918.3	2863.4	2846.9	2890.9	2922.0	2922.0	2876.2	2887.2
37.5°	3029.9	3015.3	3033.6	3084.8	3042.7	2987.8	3068.3	3081.1	3072.0	3059.2	3037.2
40°	3147.0	3143.3	3179.9	3247.6	3187.3	3176.3	3190.9	3225.7	3236.7	3249.5	3220.2
42.5°	3344.6	3361.1	3467.2	3450.7	3401.3	3362.9	3359.2	3489.2	3458.0	3425.1	3408.6
45°	3637.4	3622.7	3677.6	3679.4	3615.4	3531.2	3549.5	3668.5	3721.5	3648.3	3675.8
47.5°	3869.7	3877.0	3915.5	3994.1	3845.9	3758.1	3825.8	4017.9	4001.5	3974.0	3999.6
50°	4180.8	4213.7	4334.5	4307.0	4175.3	4067.3	4215.5	4396.7	4416.8	4316.2	4297.9
52.5°	4610.7	4662.0	4727.8	4749.8	4623.5	4585.1	4594.3	4819.3	4769.9	4672.9	4610.7
55°	4987.6	5011.4	5132.2	5313.3	5304.2	5119.4	5225.5	5309.7	5108.4	4909.0	4925.4
57.5°	5148.7	5159.6	5496.3	5858.6	6074.5	6116.5	5995.8	5712.2	5232.8	4848.6	4824.8
60°	4748.0	4852.2	5258.4	6076.3	7062.5	7549.2	6745.9	5757.9	4941.9	4475.3	4440.6
62.5°	3794.7	3800.2	4404.0	5644.5	7677.2	8952.5	7033.2	5328.0	4166.1	3637.4	3498.3
64°	2702.4	2753.6	3447.1	4996.8	7549.2	9523.4	6998.4	4766.3	3434.3	2684.1	2587.1
65°	1939.4	2010.8	2680.4	4338.1	7249.1	9455.7	6894.1	4283.2	2777.4	2049.2	1950.4
67.5°	713.6	742.8	1052.1	2170.0	5205.4	8057.8	5463.4	2354.8	1220.4	869.1	781.3
70°	331.2	333.0	389.7	717.2	2276.1	5388.3	2607.3	883.7	459.2	364.1	338.5
72.5°	243.3	248.8	272.6	331.2	669.7	2281.6	856.3	362.3	269.0	237.9	232.4
75°	197.6	201.3	208.6	239.7	309.2	611.1	347.6	250.7	214.1	192.1	184.8
77.5°	151.9	151.9	168.3	183.0	204.9	285.4	230.5	199.4	173.8	151.9	146.4
80°	109.8	111.6	131.7	142.7	139.1	188.5	166.5	164.7	142.7	118.9	109.8
82.5°	64.0	69.5	95.1	102.5	98.8	111.6	120.8	128.1	111.6	82.3	75.0
85°	36.6	38.4	54.9	56.7	56.7	53.1	69.5	76.8	75.0	51.2	45.7
87.5°	11.0	11.0	14.6	14.6	16.5	18.3	27.4	32.9	36.6	25.6	23.8
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°	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1	1868.1
2.5°	1897.4	1869.9	1871.7	1879.1	1855.3	1864.4	1891.9	1871.7	1866.2	1855.3	1849.8
5°	1888.2	1917.5	1906.5	1910.2	1904.7	1879.1	1875.4	1891.9	1901.0	1884.5	1917.5
7.5°	1952.2	1939.4	1924.8	1930.3	1917.5	1939.4	1954.1	1921.1	1937.6	1928.5	1910.2
10°	1988.8	1965.1	1976.0	1972.4	1963.2	1985.2	1970.5	1966.9	1952.2	1932.1	1961.4
12.5°	2001.6	2029.1	2047.4	2016.3	2021.8	2010.8	2001.6	2001.6	1985.2	1979.7	1985.2
15°	2058.4	2082.1	2074.8	2098.6	2067.5	2078.5	2089.5	2062.0	2076.7	2036.4	2067.5
17.5°	2162.7	2142.5	2168.1	2137.0	2148.0	2170.0	2135.2	2135.2	2146.2	2124.2	2096.8
20°	2228.5	2219.4	2210.2	2212.1	2193.8	2213.9	2202.9	2197.4	2180.9	2188.3	2202.9
22.5°	2290.7	2277.9	2281.6	2287.1	2299.9	2290.7	2285.2	2290.7	2250.5	2287.1	2235.8
25°	2367.6	2402.3	2391.4	2415.1	2378.6	2402.3	2400.5	2365.7	2387.7	2373.1	2362.1
27.5°	2495.7	2477.4	2493.8	2464.5	2490.2	2492.0	2470.0	2528.6	2503.0	2499.3	2492.0
30°	2660.3	2647.5	2636.5	2620.1	2640.2	2623.7	2642.0	2647.5	2623.7	2605.4	2570.7
32.5°	2753.6	2788.4	2801.2	2761.0	2762.8	2771.9	2755.5	2739.0	2753.6	2759.1	2753.6
35°	2885.4	2918.3	2925.6	2894.5	2878.0	2923.8	2890.9	2945.7	2898.2	2900.0	2850.6
37.5°	3039.1	3048.2	3110.4	3075.7	3061.0	3039.1	3099.4	3092.1	3103.1	3015.3	3059.2
40°	3212.9	3245.8	3280.6	3192.7	3190.9	3211.0	3207.4	3249.5	3229.3	3216.5	3185.4
42.5°	3403.2	3472.7	3478.2	3419.6	3383.0	3379.4	3397.7	3491.0	3492.8	3408.6	3372.1
45°	3655.7	3732.5	3712.4	3598.9	3558.7	3553.2	3642.8	3683.1	3717.9	3684.9	3653.8
47.5°	3970.4	4021.6	4006.9	3902.7	3772.8	3809.3	3897.2	4023.4	3986.8	3942.9	3906.3
50°	4307.0	4367.4	4336.3	4232.0	4107.6	4107.6	4215.5	4376.5	4365.6	4279.6	4246.6
52.5°	4680.3	4768.1	4839.4	4691.2	4586.9	4603.4	4773.6	4832.1	4804.7	4744.3	4716.9
55°	4958.4	5126.7	5273.1	5280.4	5285.9	5284.0	5328.0	5386.5	5190.7	5093.8	4995.0
57.5°	4890.7	5209.0	5710.4	6050.7	6151.3	6204.4	6189.7	5918.9	5456.0	5137.7	5170.6
60°	4407.6	4927.3	5736.0	6828.3	7560.1	7487.0	7219.8	6149.5	5309.7	4771.7	4704.0
62.5°	3516.6	4142.3	5306.0	7047.8	9064.1	9042.2	7644.3	5617.0	4424.1	3743.5	3701.4
64°	2649.3	3308.0	4733.3	6991.1	9591.1	9613.0	7536.4	4962.0	3461.7	2649.3	2585.3
65°	2027.3	2638.4	4171.6	6874.0	9477.6	9490.4	7236.3	4285.1	2631.0	1880.9	1811.4
67.5°	806.9	1123.4	2263.3	5212.7	8138.3	8103.5	5163.3	2073.0	1006.3	655.0	642.2
70°	344.0	428.1	794.1	2470.0	5448.7	5348.1	2223.0	673.3	373.2	312.9	311.0
72.5°	236.0	261.6	340.3	763.0	2265.1	2212.1	633.1	312.9	254.3	234.2	234.2
75°	190.3	208.6	247.0	320.2	600.1	578.2	298.2	230.5	203.1	188.5	186.6
77.5°	148.2	166.5	193.9	221.4	274.4	272.6	199.4	173.8	157.4	146.4	142.7
80°	117.1	135.4	153.7	157.4	179.3	175.6	135.4	137.2	128.1	106.1	104.3
82.5°	80.5	109.8	122.6	111.6	106.1	106.1	97.0	97.0	89.7	65.9	60.4
85°	49.4	73.2	76.8	65.9	49.4	49.4	53.1	51.2	47.6	34.8	32.9
87.5°	25.6	34.8	31.1	25.6	16.5	16.5	14.6	11.0	11.0	9.1	9.1
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)