

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: P479446

Luminaire Tested: **IFLD-S-SA3D-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479446
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

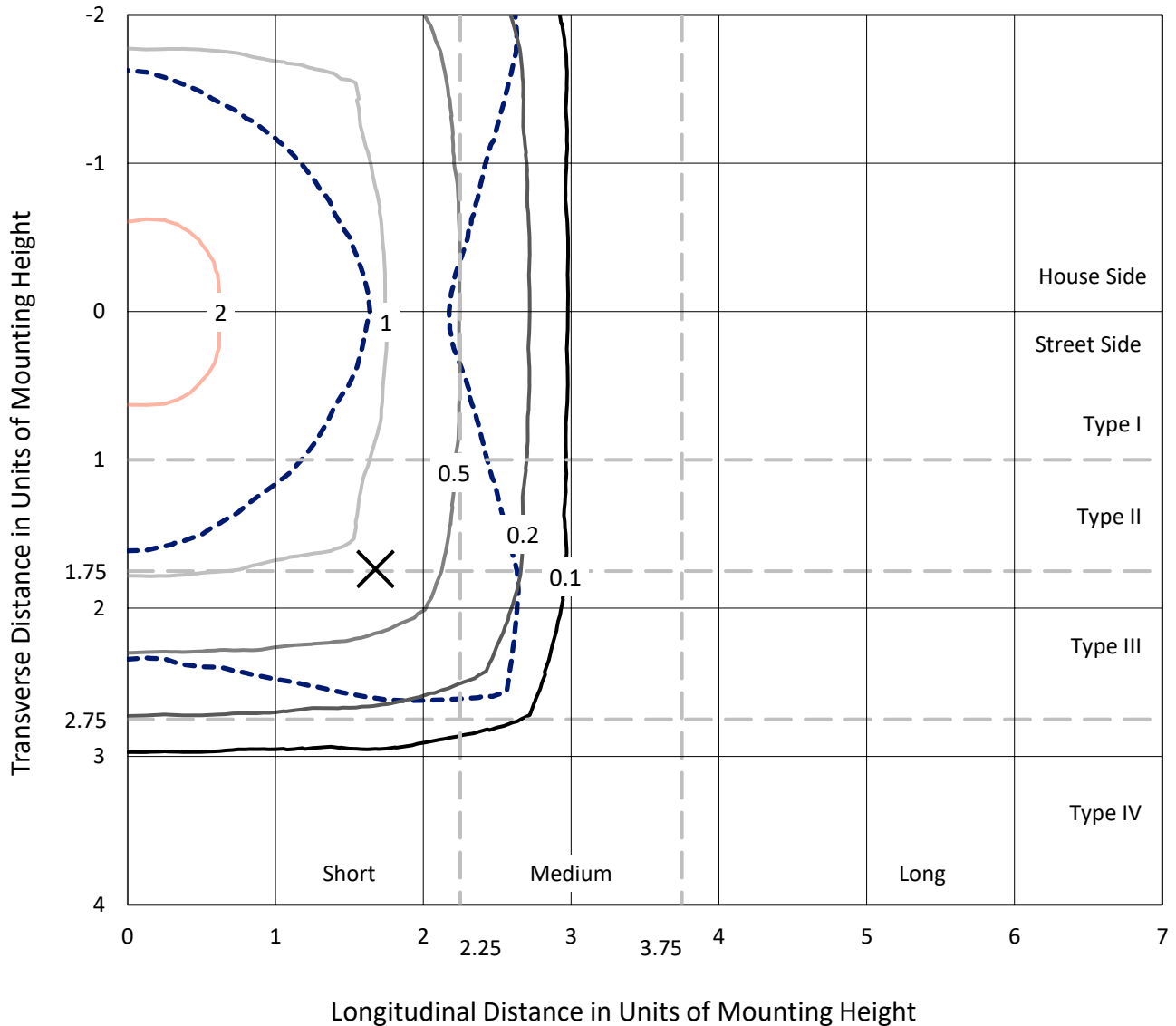
Lumens per Lamp: N/A
Luminaire Lumens: 17294.2 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

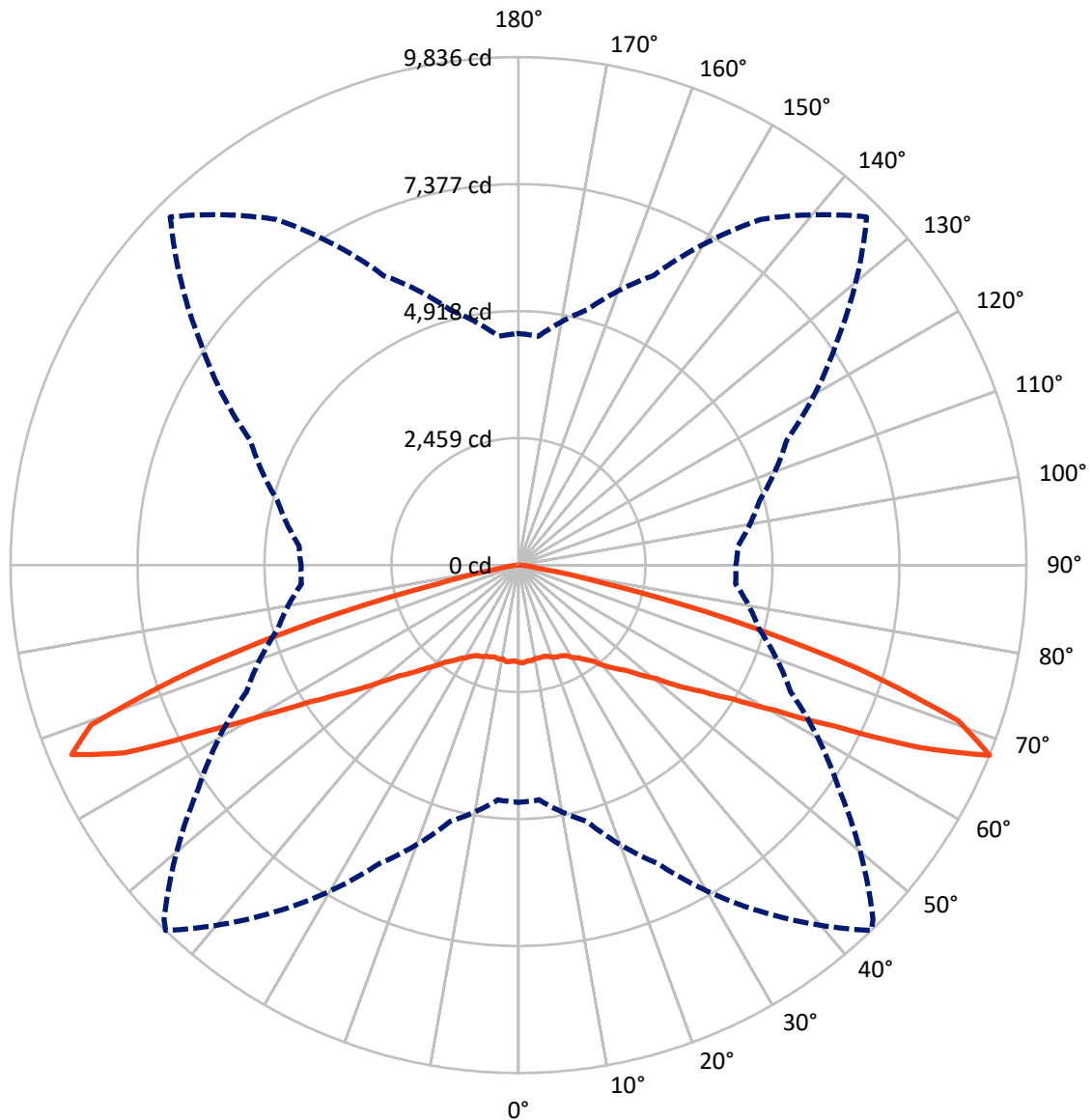
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8624.9	0.0	8624.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	8669.2	0.0	8669.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	17294.2	0.0	17294.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.0
10°-20°	522.3	3.0
20°-30°	888.1	5.1
30°-40°	1408.2	8.1
40°-50°	2296.1	13.3
50°-60°	3921.5	22.7
60°-70°	5964.5	34.5
70°-80°	2010.4	11.6
80°-90°	104.4	0.6
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°	17294.2	100.0
0°-180°	17294.2	100.0

Coefficient of Utilization



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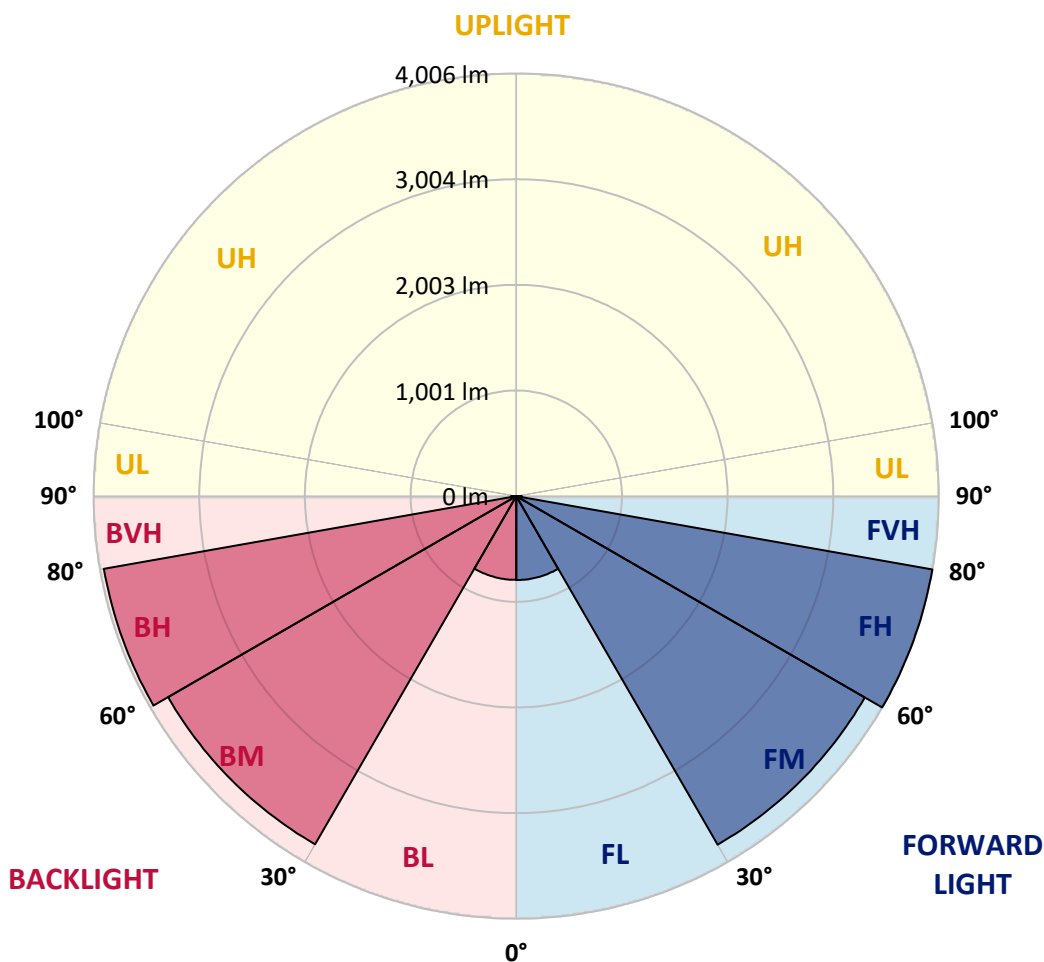
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.4	4.6			
FM (30°-60°)	3814.9	22.1			
FH (60°-80°)	4005.5	23.2			G2/5000
FVH (80°-90°)	53.4	0.3			G1/100
BL (0°-30°)	793.8	4.6	B2/1000		
BM (30°-60°)	3810.8	22.0	B3/5000		
BH (60°-80°)	3969.4	23.0	B4/5000		G2/5000
BVH (80°-90°)	51.0	0.3			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°	44°	45°	55°	65°	75°	85°
0°	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1
2.5°	1845.7	1867.4	1883.2	1881.2	1887.1	1893.0	1885.1	1897.0	1889.1	1902.9	1910.8
5°	1881.2	1875.3	1877.2	1865.4	1893.0	1861.5	1861.5	1877.2	1897.0	1873.3	1887.1
7.5°	1859.5	1855.5	1845.7	1863.4	1869.4	1869.4	1885.1	1855.5	1889.1	1897.0	1899.0
10°	1835.8	1814.1	1843.7	1861.5	1865.4	1833.8	1847.6	1855.5	1845.7	1855.5	1861.5
12.5°	1816.1	1827.9	1827.9	1827.9	1822.0	1843.7	1857.5	1855.5	1835.8	1853.6	1822.0
15°	1814.1	1808.2	1825.9	1841.7	1831.8	1835.8	1841.7	1859.5	1822.0	1829.9	1829.9
17.5°	1812.1	1820.0	1825.9	1824.0	1857.5	1857.5	1851.6	1839.7	1869.4	1853.6	1831.8
20°	1820.0	1814.1	1829.9	1835.8	1859.5	1906.9	1889.1	1879.2	1863.4	1843.7	1843.7
22.5°	1829.9	1825.9	1847.6	1873.3	1918.7	1930.5	1928.6	1916.7	1889.1	1865.4	1861.5
25°	1865.4	1829.9	1853.6	1902.9	1918.7	1942.4	1958.2	1942.4	1904.9	1910.8	1875.3
27.5°	1918.7	1912.8	1944.4	1977.9	1964.1	1985.8	1972.0	1983.8	1985.8	1956.2	1920.7
30°	1981.9	1964.1	1983.8	2049.0	2054.9	2078.6	2054.9	2023.3	2033.2	2007.5	1989.8
32.5°	2072.7	2066.7	2104.3	2147.7	2155.6	2143.7	2131.9	2149.7	2108.2	2088.5	2056.9
35°	2131.9	2157.6	2203.0	2236.5	2262.2	2250.3	2256.2	2238.5	2248.4	2206.9	2193.1
37.5°	2307.6	2297.7	2307.6	2364.8	2370.7	2364.8	2370.7	2390.5	2376.7	2341.1	2305.6
40°	2473.4	2457.6	2481.3	2546.4	2542.5	2562.2	2522.7	2544.4	2544.4	2477.3	2463.5
42.5°	2597.7	2651.0	2678.7	2732.0	2751.7	2734.0	2726.1	2730.0	2773.4	2694.5	2664.9
45°	2854.4	2852.4	2935.3	2964.9	2909.6	2905.7	2889.9	2937.3	2966.9	2921.5	2909.6
47.5°	3132.7	3146.5	3193.9	3205.7	3239.3	3178.1	3178.1	3184.0	3288.6	3182.0	3126.8
50°	3383.4	3401.2	3495.9	3588.7	3525.5	3460.4	3486.0	3517.6	3574.9	3474.2	3426.8
52.5°	3687.4	3784.1	3847.3	3896.6	3942.0	3896.6	3837.4	3872.9	3985.4	3851.2	3792.0
55°	4125.6	4202.6	4261.8	4352.6	4390.1	4328.9	4323.0	4319.1	4382.2	4240.1	4159.2
57.5°	4615.1	4583.6	4678.3	4818.5	4954.7	4895.5	4877.7	4881.6	4897.4	4696.1	4634.9
60°	5223.1	5258.7	5371.2	5493.6	5637.7	5720.6	5604.1	5537.0	5550.8	5276.4	5181.7
62.5°	5570.5	5649.5	5904.2	6324.6	6614.8	6873.4	6891.1	6454.9	6162.7	5629.8	5227.1
65°	5402.8	5390.9	5870.6	6648.3	7747.8	8499.9	8387.4	7329.4	6308.8	5462.0	4921.1
67.5°	4595.4	4563.8	5144.2	6377.9	8194.0	9836.3	9708.0	7576.1	5815.3	4832.3	4220.4
70°	2961.0	2953.1	3582.8	4861.9	7315.5	9030.9	9078.3	6881.3	4733.6	3539.3	2933.3
72.5°	1075.8	1141.0	1506.1	2613.5	4968.5	6908.9	6938.5	5094.8	2722.1	1636.4	1206.1
75°	396.8	408.6	475.7	848.8	2264.1	4242.1	4352.6	2471.4	967.2	533.0	434.3
77.5°	229.0	231.0	254.6	315.8	671.2	1656.2	1723.3	750.1	375.1	284.3	262.5
80°	155.9	154.0	179.6	205.3	268.5	469.8	499.4	313.9	236.9	197.4	165.8
82.5°	90.8	96.7	132.3	146.1	163.8	207.3	211.2	195.4	177.7	146.1	108.6
85°	55.3	45.4	73.0	80.9	94.8	92.8	92.8	106.6	114.5	102.6	61.2
87.5°	13.8	13.8	17.8	19.7	25.7	19.7	21.7	41.5	55.3	51.3	31.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1
2.5°	1893.0	1887.1	1891.1	1912.8	1899.0	1857.5	1867.4	1889.1	1871.3	1861.5	1859.5
5°	1885.1	1897.0	1883.2	1887.1	1900.9	1867.4	1873.3	1900.9	1889.1	1893.0	1871.3
7.5°	1887.1	1893.0	1881.2	1863.4	1863.4	1891.1	1875.3	1879.2	1861.5	1891.1	1851.6
10°	1875.3	1859.5	1845.7	1855.5	1851.6	1843.7	1837.8	1849.6	1831.8	1857.5	1829.9
12.5°	1839.7	1843.7	1839.7	1835.8	1843.7	1863.4	1831.8	1835.8	1808.2	1812.1	1825.9
15°	1825.9	1837.8	1833.8	1855.5	1865.4	1835.8	1859.5	1835.8	1814.1	1802.2	1824.0
17.5°	1831.8	1849.6	1843.7	1859.5	1841.7	1863.4	1867.4	1857.5	1831.8	1822.0	1831.8
20°	1837.8	1831.8	1839.7	1867.4	1893.0	1871.3	1871.3	1865.4	1841.7	1827.9	1827.9
22.5°	1851.6	1841.7	1853.6	1875.3	1883.2	1916.7	1887.1	1873.3	1833.8	1798.3	1831.8
25°	1879.2	1885.1	1893.0	1885.1	1928.6	1924.6	1920.7	1910.8	1849.6	1851.6	1845.7
27.5°	1932.5	1899.0	1908.8	1956.2	1962.1	1977.9	1958.2	1975.9	1910.8	1912.8	1873.3
30°	1997.7	1962.1	1993.7	2035.2	2033.2	2062.8	2052.9	2056.9	2011.5	1985.8	1932.5
32.5°	2068.7	2064.8	2084.5	2110.2	2120.0	2135.8	2133.9	2133.9	2106.2	2039.1	2049.0
35°	2147.7	2175.3	2199.0	2226.6	2230.6	2250.3	2222.7	2226.6	2199.0	2149.7	2165.4
37.5°	2303.6	2301.7	2327.3	2360.9	2364.8	2349.0	2370.7	2360.9	2323.4	2289.8	2264.1
40°	2485.2	2445.8	2469.4	2548.4	2554.3	2526.7	2524.7	2522.7	2495.1	2422.1	2406.3
42.5°	2643.1	2694.5	2690.5	2716.2	2698.4	2684.6	2734.0	2706.3	2684.6	2607.6	2593.8
45°	2846.5	2862.3	2913.6	2996.5	2911.6	2911.6	2945.2	2923.5	2911.6	2854.4	2801.1
47.5°	3099.1	3113.0	3215.6	3221.5	3166.3	3128.7	3233.4	3237.3	3188.0	3144.5	3079.4
50°	3395.2	3401.2	3493.9	3588.7	3527.5	3456.4	3563.0	3604.5	3493.9	3434.7	3353.8
52.5°	3720.9	3703.2	3780.2	3957.8	3898.6	3876.9	3991.4	4001.2	3851.2	3758.4	3780.2
55°	4096.0	4072.3	4281.5	4402.0	4364.5	4325.0	4376.3	4400.0	4279.6	4127.6	4180.9
57.5°	4581.6	4593.4	4698.1	4816.5	4877.7	4887.6	4911.2	4887.6	4765.2	4611.2	4561.8
60°	5067.2	5102.7	5306.0	5529.1	5548.8	5722.5	5691.0	5572.5	5398.8	5179.7	5189.6
62.5°	5246.8	5217.2	5544.9	6089.7	6553.6	6871.4	6731.2	6310.8	5908.1	5509.4	5539.0
65°	4885.6	4958.6	5404.7	6257.5	7264.2	8521.6	7775.5	6612.8	5799.5	5284.3	5227.1
67.5°	4210.5	4265.8	4832.3	5732.4	7518.9	9536.3	8170.3	6186.4	5114.6	4447.4	4482.9
70°	2933.3	2961.0	3515.6	4696.1	6818.1	8999.3	7370.8	4751.4	3531.4	2814.9	2854.4
72.5°	1180.4	1247.6	1612.7	2828.7	5033.6	6837.8	4962.6	2493.1	1464.7	1089.6	989.0
75°	436.2	438.2	515.2	973.2	2390.5	4297.3	2238.5	801.4	467.8	383.0	365.2
77.5°	252.7	250.7	268.5	351.4	692.9	1677.9	635.6	313.9	254.6	229.0	219.1
80°	157.9	155.9	183.6	232.9	304.0	459.9	268.5	195.4	171.7	148.0	148.0
82.5°	100.7	102.6	144.1	171.7	185.6	203.3	155.9	138.2	128.3	84.9	82.9
85°	65.1	59.2	100.7	114.5	102.6	90.8	86.9	73.0	67.1	41.5	45.4
87.5°	29.6	31.6	51.3	57.2	37.5	21.7	21.7	15.8	15.8	9.9	9.9
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)