

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: P479405

Luminaire Tested: **IFLD-S-SA3B-760-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479405
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

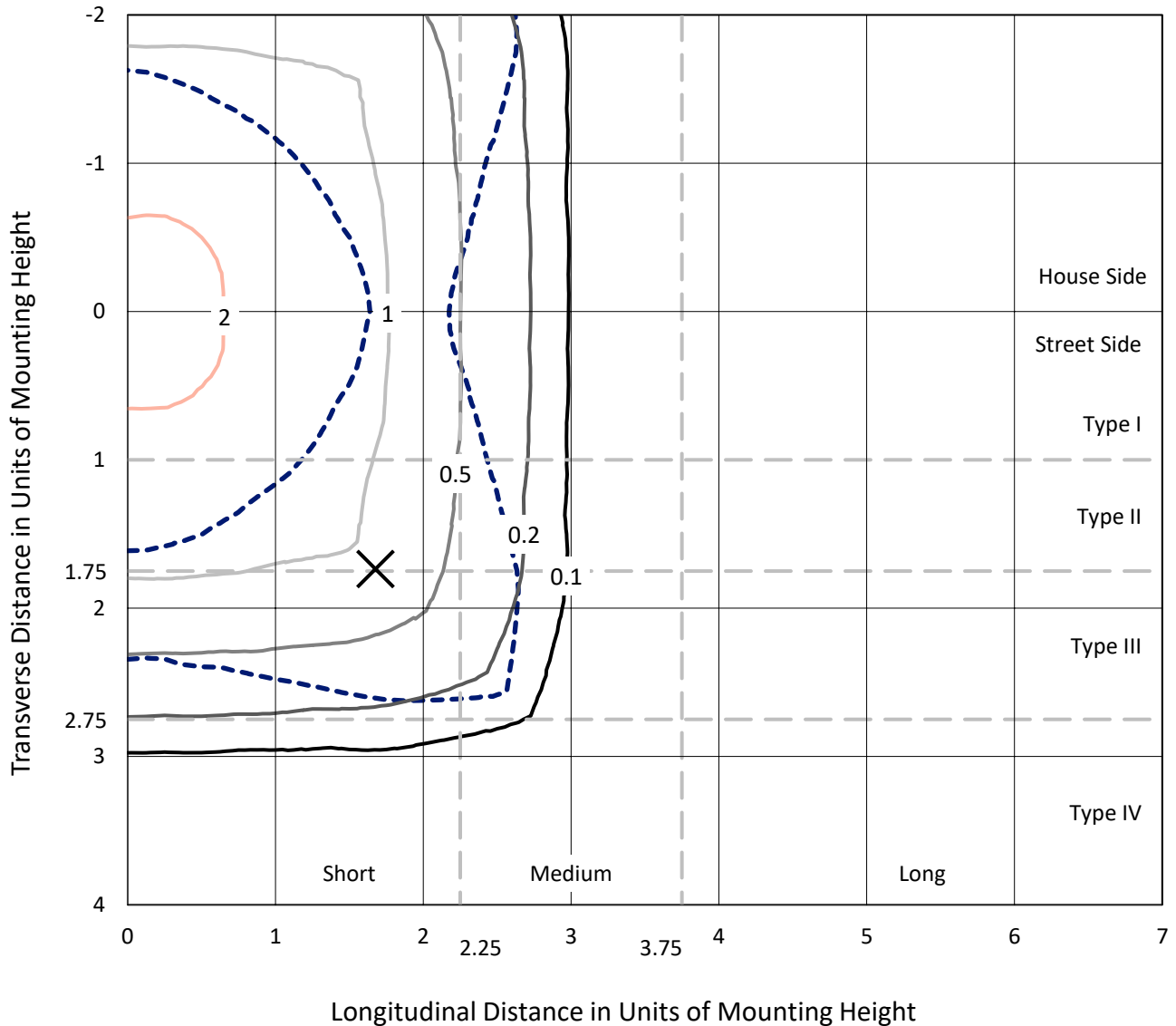
Lumens per Lamp: N/A
Luminaire Lumens: 17569.3 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4
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: P479405
 CATALOG NUMBER: IFLD-S-SA3B-760-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

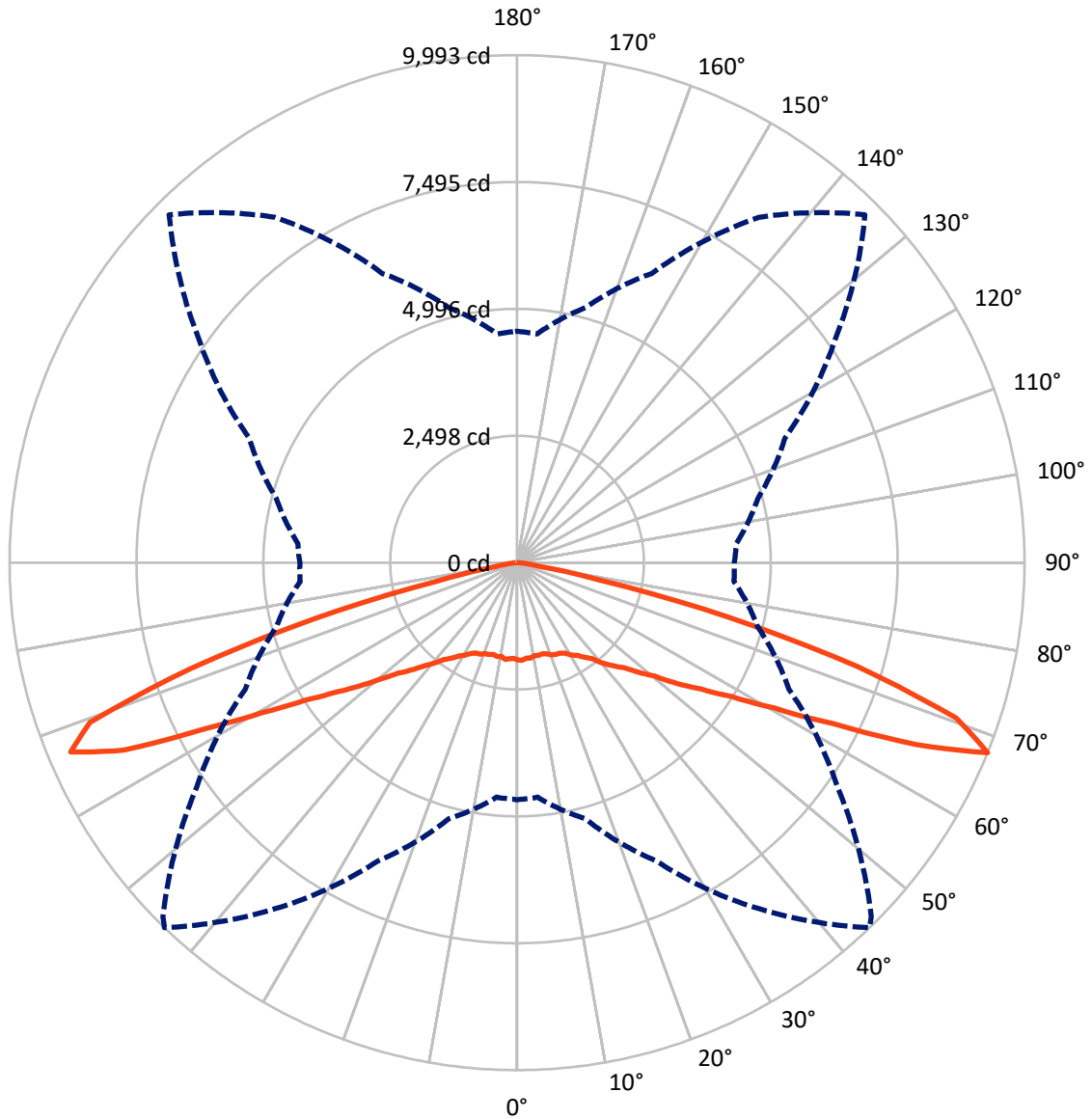
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P479405
CATALOG NUMBER: IFLD-S-SA3B-760-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479405

CATALOG NUMBER: IFLD-S-SA3B-760-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8762.2	0.0	8762.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	8807.1	0.0	8807.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	17569.3	0.0	17569.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	1.0
10°-20°	530.6	3.0
20°-30°	902.2	5.1
30°-40°	1430.6	8.1
40°-50°	2332.7	13.3
50°-60°	3983.8	22.7
60°-70°	6059.4	34.5
70°-80°	2042.4	11.6
80°-90°	106.0	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°	17569.3	100.0
0°-180°	17569.3	100.0



REPORT NUMBER: P479405

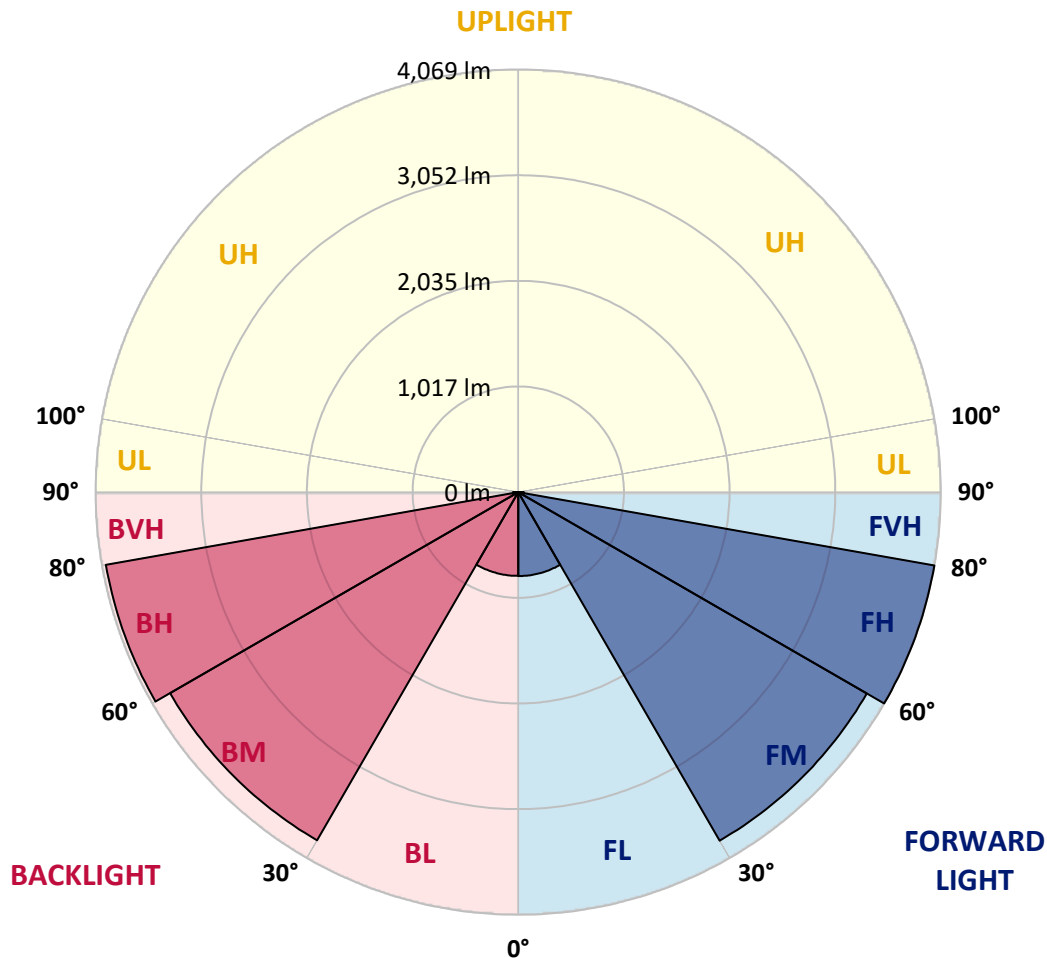
CATALOG NUMBER: IFLD-S-SA3B-760-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.0	4.6			
FM (30°-60°)	3875.6	22.1			
FH (60°-80°)	4069.2	23.2			G2/5000
FVH (80°-90°)	54.3	0.3			G1/100
BL (0°-30°)	806.4	4.6	B2/1000		
BM (30°-60°)	3871.4	22.0	B3/5000		
BH (60°-80°)	4032.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	51.8	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





REPORT NUMBER: P479405
 CATALOG NUMBER: IFLD-S-SA3B-760-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1
2.5°	1875.0	1897.1	1913.1	1911.1	1917.1	1923.2	1915.1	1927.2	1919.1	1933.2	1941.2
5°	1911.1	1905.1	1907.1	1895.1	1923.2	1891.1	1891.1	1907.1	1927.2	1903.1	1917.1
7.5°	1889.1	1885.1	1875.0	1893.1	1899.1	1899.1	1915.1	1885.1	1919.1	1927.2	1929.2
10°	1865.0	1842.9	1873.0	1891.1	1895.1	1863.0	1877.0	1885.1	1875.0	1885.1	1891.1
12.5°	1844.9	1857.0	1857.0	1857.0	1851.0	1873.0	1887.1	1885.1	1865.0	1883.0	1851.0
15°	1842.9	1836.9	1855.0	1871.0	1861.0	1865.0	1871.0	1889.1	1851.0	1859.0	1859.0
17.5°	1840.9	1849.0	1855.0	1853.0	1887.1	1887.1	1881.0	1869.0	1899.1	1883.0	1861.0
20°	1849.0	1842.9	1859.0	1865.0	1889.1	1937.2	1919.1	1909.1	1893.1	1873.0	1873.0
22.5°	1859.0	1855.0	1877.0	1903.1	1949.2	1961.3	1959.2	1947.2	1919.1	1895.1	1891.1
25°	1895.1	1859.0	1883.0	1933.2	1949.2	1973.3	1989.3	1973.3	1935.2	1941.2	1905.1
27.5°	1949.2	1943.2	1975.3	2009.4	1995.3	2017.4	2003.4	2015.4	2017.4	1987.3	1951.2
30°	2013.4	1995.3	2015.4	2081.6	2087.6	2111.7	2087.6	2055.5	2065.5	2039.5	2021.4
32.5°	2105.6	2099.6	2137.7	2181.8	2189.9	2177.8	2165.8	2183.9	2141.7	2121.7	2089.6
35°	2165.8	2191.9	2238.0	2272.1	2298.2	2286.1	2292.1	2274.1	2284.1	2242.0	2228.0
37.5°	2344.3	2334.3	2344.3	2402.4	2408.5	2402.4	2408.5	2428.5	2414.5	2378.4	2342.3
40°	2512.7	2496.7	2520.8	2586.9	2582.9	2603.0	2562.9	2584.9	2584.9	2516.7	2502.7
42.5°	2639.1	2693.2	2721.3	2775.4	2795.5	2777.4	2769.4	2773.4	2817.5	2737.3	2707.3
45°	2899.8	2897.8	2982.0	3012.1	2955.9	2951.9	2935.9	2984.0	3014.1	2968.0	2955.9
47.5°	3182.5	3196.6	3244.7	3256.7	3290.8	3228.7	3228.7	3234.7	3341.0	3232.7	3176.5
50°	3437.2	3455.3	3551.5	3645.8	3581.6	3515.4	3541.5	3573.6	3631.7	3529.5	3481.3
52.5°	3746.0	3844.3	3908.5	3958.6	4004.7	3958.6	3898.4	3934.5	4048.8	3912.5	3852.3
55°	4191.2	4269.4	4329.6	4421.8	4459.9	4397.8	4391.8	4387.8	4451.9	4307.5	4225.3
57.5°	4688.6	4656.5	4752.7	4895.1	5033.5	4973.3	4955.3	4959.3	4975.3	4770.8	4708.6
60°	5306.2	5342.3	5456.6	5581.0	5727.3	5811.6	5693.3	5625.1	5639.1	5360.4	5264.1
62.5°	5659.2	5739.4	5998.1	6425.2	6720.0	6982.7	7000.8	6557.6	6260.8	5719.3	5310.2
65°	5488.7	5476.7	5964.0	6754.1	7871.1	8635.1	8520.8	7446.0	6409.2	5548.9	4999.4
67.5°	4668.5	4636.4	5226.0	6479.4	8324.3	9992.8	9862.4	7696.6	5907.8	4909.2	4287.5
70°	3008.1	3000.0	3639.8	4939.2	7431.9	9174.6	9222.7	6990.7	4808.9	3595.6	2980.0
72.5°	1092.9	1159.1	1530.1	2655.1	5047.5	7018.8	7048.9	5175.9	2765.4	1662.5	1225.3
75°	403.1	415.1	483.3	862.3	2300.2	4309.5	4421.8	2510.7	982.6	541.5	441.2
77.5°	232.6	234.6	258.7	320.9	681.8	1682.5	1750.7	762.0	381.0	288.8	266.7
80°	158.4	156.4	182.5	208.6	272.7	477.3	507.4	318.9	240.6	200.5	168.5
82.5°	92.2	98.3	134.4	148.4	166.4	210.6	214.6	198.5	180.5	148.4	110.3
85°	56.2	46.1	74.2	82.2	96.3	94.3	94.3	108.3	116.3	104.3	62.2
87.5°	14.0	14.0	18.0	20.1	26.1	20.1	22.1	42.1	56.2	52.1	32.1
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: P479405
 CATALOG NUMBER: IFLD-S-SA3B-760-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1	1919.1
2.5°	1923.2	1917.1	1921.1	1943.2	1929.2	1887.1	1897.1	1919.1	1901.1	1891.1	1889.1
5°	1915.1	1927.2	1913.1	1917.1	1931.2	1897.1	1903.1	1931.2	1919.1	1923.2	1901.1
7.5°	1917.1	1923.2	1911.1	1893.1	1893.1	1921.1	1905.1	1909.1	1891.1	1921.1	1881.0
10°	1905.1	1889.1	1875.0	1885.1	1881.0	1873.0	1867.0	1879.0	1861.0	1887.1	1859.0
12.5°	1869.0	1873.0	1869.0	1865.0	1873.0	1893.1	1861.0	1865.0	1836.9	1840.9	1855.0
15°	1855.0	1867.0	1863.0	1885.1	1895.1	1865.0	1889.1	1865.0	1842.9	1830.9	1853.0
17.5°	1861.0	1879.0	1873.0	1889.1	1871.0	1893.1	1897.1	1887.1	1861.0	1851.0	1861.0
20°	1867.0	1861.0	1869.0	1897.1	1923.2	1901.1	1901.1	1895.1	1871.0	1857.0	1857.0
22.5°	1881.0	1871.0	1883.0	1905.1	1913.1	1947.2	1917.1	1903.1	1863.0	1826.9	1861.0
25°	1909.1	1915.1	1923.2	1915.1	1959.2	1955.2	1951.2	1941.2	1879.0	1881.0	1875.0
27.5°	1963.3	1929.2	1939.2	1987.3	1993.3	2009.4	1989.3	2007.4	1941.2	1943.2	1903.1
30°	2029.4	1993.3	2025.4	2067.5	2065.5	2095.6	2085.6	2089.6	2043.5	2017.4	1963.3
32.5°	2101.6	2097.6	2117.7	2143.7	2153.8	2169.8	2167.8	2167.8	2139.7	2071.6	2081.6
35°	2181.8	2209.9	2234.0	2262.1	2266.1	2286.1	2258.1	2262.1	2234.0	2183.9	2199.9
37.5°	2340.3	2338.3	2364.3	2398.4	2402.4	2386.4	2408.5	2398.4	2360.3	2326.2	2300.2
40°	2524.8	2484.7	2508.7	2588.9	2595.0	2566.9	2564.9	2562.9	2534.8	2460.6	2444.5
42.5°	2685.2	2737.3	2733.3	2759.4	2741.3	2727.3	2777.4	2749.4	2727.3	2649.1	2635.1
45°	2891.7	2907.8	2959.9	3044.2	2957.9	2957.9	2992.0	2970.0	2957.9	2899.8	2845.6
47.5°	3148.4	3162.5	3266.8	3272.8	3216.6	3178.5	3284.8	3288.8	3238.7	3194.6	3128.4
50°	3449.2	3455.3	3549.5	3645.8	3583.6	3511.4	3619.7	3661.8	3549.5	3489.3	3407.1
52.5°	3780.1	3762.1	3840.3	4020.8	3960.6	3938.6	4054.9	4064.9	3912.5	3818.2	3840.3
55°	4161.1	4137.1	4349.7	4472.0	4433.9	4393.8	4445.9	4470.0	4347.6	4193.2	4247.4
57.5°	4654.5	4666.5	4772.8	4893.1	4955.3	4965.3	4989.4	4965.3	4841.0	4684.6	4634.4
60°	5147.8	5183.9	5390.4	5617.1	5637.1	5813.6	5781.5	5661.2	5484.7	5262.1	5272.1
62.5°	5330.3	5300.2	5633.1	6186.6	6657.8	6980.7	6838.3	6411.2	6002.1	5597.0	5627.1
65°	4963.3	5037.5	5490.7	6357.0	7379.8	8657.2	7899.2	6718.0	5891.8	5368.4	5310.2
67.5°	4277.5	4333.6	4909.2	5823.6	7638.5	9688.0	8300.2	6284.8	5195.9	4518.1	4554.2
70°	2980.0	3008.1	3571.6	4770.8	6926.6	9142.5	7488.1	4826.9	3587.6	2859.7	2899.8
72.5°	1199.2	1267.4	1638.4	2873.7	5113.7	6946.6	5041.5	2532.8	1488.0	1107.0	1004.7
75°	443.2	445.2	523.4	988.6	2428.5	4365.7	2274.1	814.2	475.3	389.0	371.0
77.5°	256.7	254.7	272.7	357.0	703.9	1704.6	645.7	318.9	258.7	232.6	222.6
80°	160.4	158.4	186.5	236.6	308.8	467.3	272.7	198.5	174.5	150.4	150.4
82.5°	102.3	104.3	146.4	174.5	188.5	206.6	158.4	140.4	130.3	86.2	84.2
85°	66.2	60.2	102.3	116.3	104.3	92.2	88.2	74.2	68.2	42.1	46.1
87.5°	30.1	32.1	52.1	58.2	38.1	22.1	22.1	16.0	16.0	10.0	10.0
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)