

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: P479286

Luminaire Tested: **IFLD-S-SA2E-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479286
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

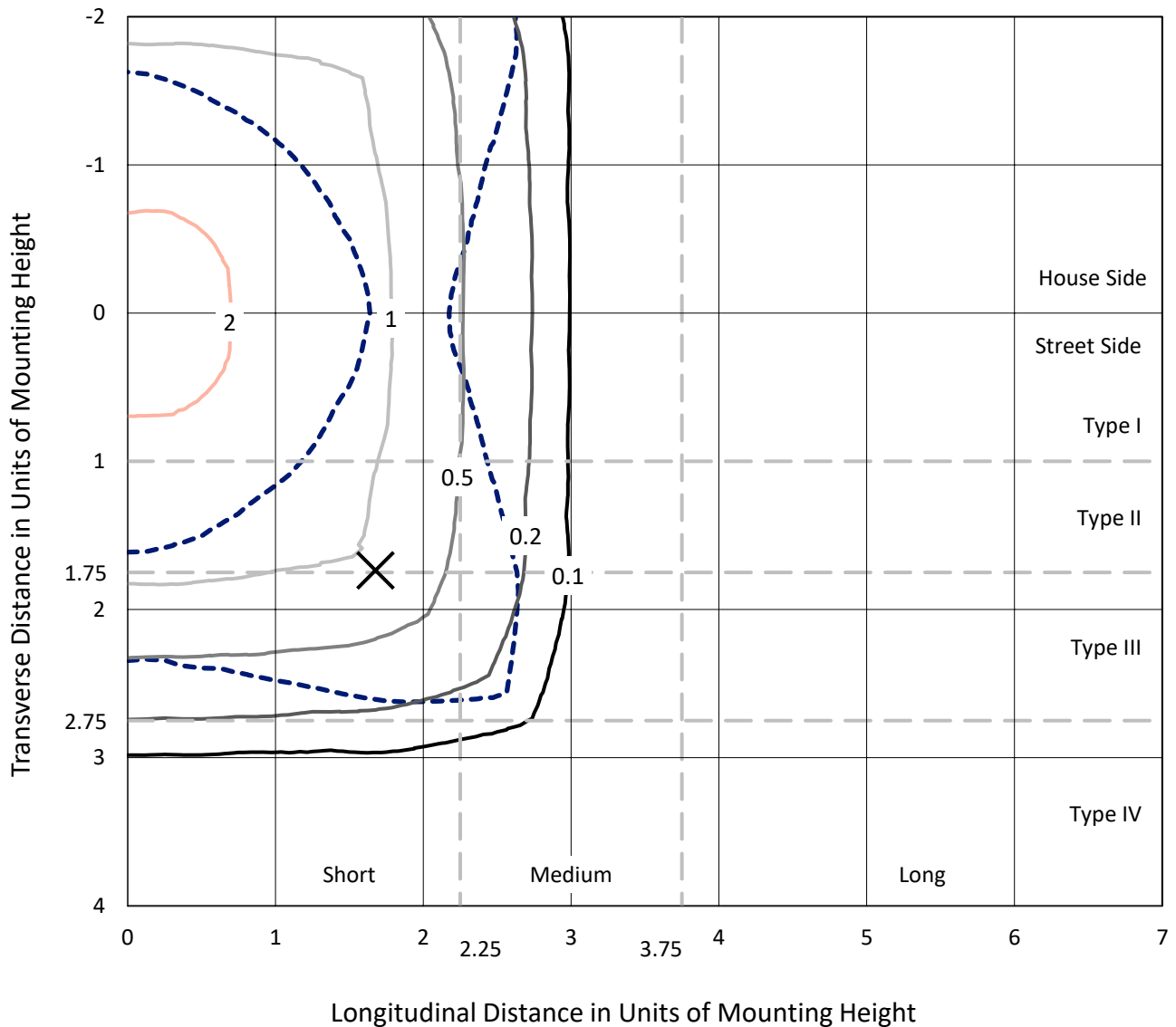
Lumens per Lamp: N/A
Luminaire Lumens: 18019.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2
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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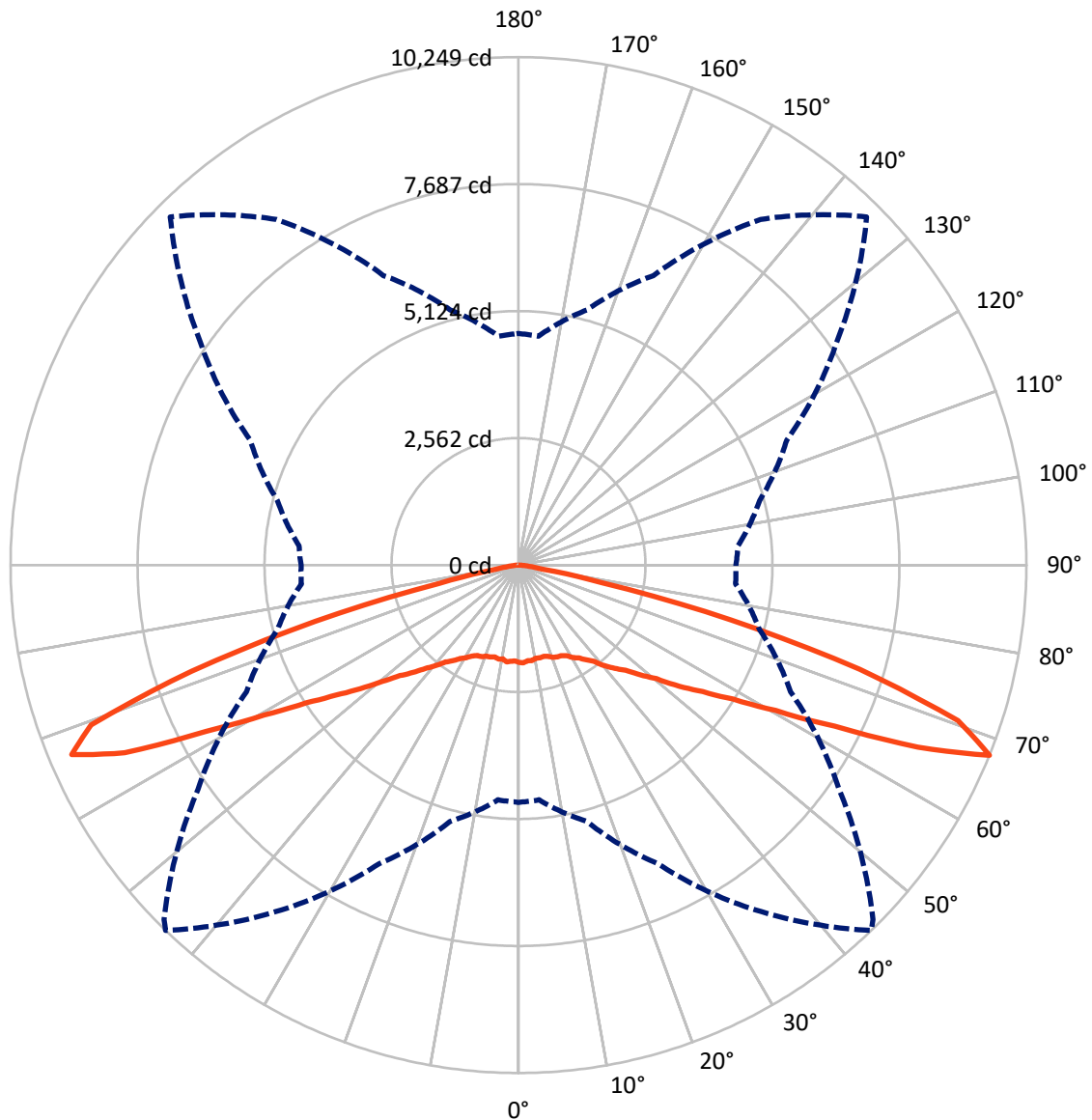
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



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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	8986.6	0.0	8986.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9032.8	0.0	9032.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	18019.4	0.0	18019.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	1.0
10°-20°	544.2	3.0
20°-30°	925.4	5.1
30°-40°	1467.2	8.1
40°-50°	2392.4	13.3
50°-60°	4085.9	22.7
60°-70°	6214.6	34.5
70°-80°	2094.7	11.6
80°-90°	108.8	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°	18019.4	100.0
0°-180°	18019.4	100.0

Coefficient of Utilization



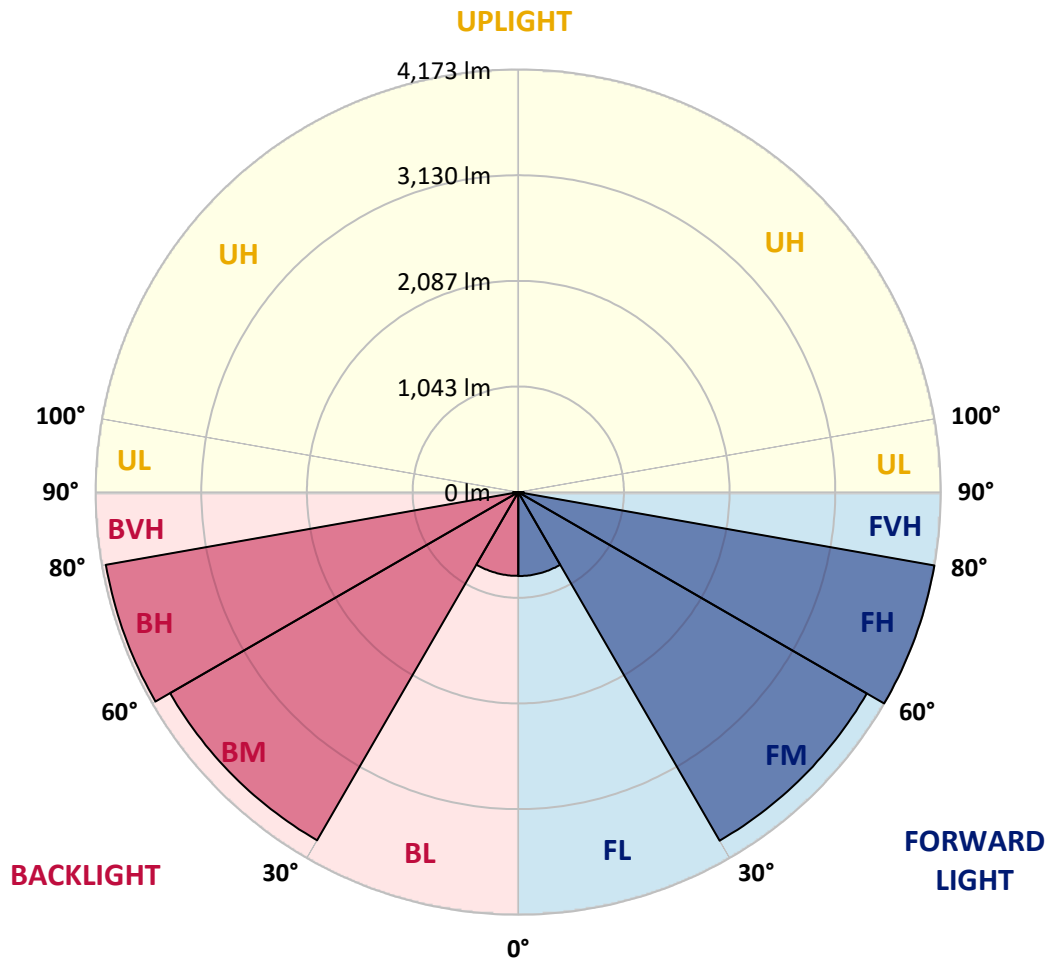
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.7	4.6			
FM (30°-60°)	3974.9	22.1			
FH (60°-80°)	4173.5	23.2			G2/5000
FVH (80°-90°)	55.6	0.3			G1/100
BL (0°-30°)	827.0	4.6	B2/1000		
BM (30°-60°)	3970.6	22.0	B3/5000		
BH (60°-80°)	4135.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	53.1	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°	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3
2.5°	1923.1	1945.7	1962.1	1960.1	1966.2	1972.4	1964.2	1976.5	1968.3	1982.7	1990.9
5°	1960.1	1953.9	1956.0	1943.6	1972.4	1939.5	1939.5	1956.0	1976.5	1951.9	1966.2
7.5°	1937.5	1933.3	1923.1	1941.6	1947.7	1947.7	1964.2	1933.3	1968.3	1976.5	1978.6
10°	1912.8	1890.1	1921.0	1939.5	1943.6	1910.7	1925.1	1933.3	1923.1	1933.3	1939.5
12.5°	1892.2	1904.5	1904.5	1904.5	1898.4	1921.0	1935.4	1933.3	1912.8	1931.3	1898.4
15°	1890.1	1884.0	1902.5	1918.9	1908.7	1912.8	1918.9	1937.5	1898.4	1906.6	1906.6
17.5°	1888.1	1896.3	1902.5	1900.4	1935.4	1935.4	1929.2	1916.9	1947.7	1931.3	1908.7
20°	1896.3	1890.1	1906.6	1912.8	1937.5	1986.8	1968.3	1958.0	1941.6	1921.0	1921.0
22.5°	1906.6	1902.5	1925.1	1951.9	1999.2	2011.5	2009.4	1997.1	1968.3	1943.6	1939.5
25°	1943.6	1906.6	1931.3	1982.7	1999.2	2023.8	2040.3	2023.8	1984.8	1990.9	1953.9
27.5°	1999.2	1993.0	2025.9	2060.9	2046.5	2069.1	2054.7	2067.0	2069.1	2038.2	2001.2
30°	2065.0	2046.5	2067.0	2134.9	2141.1	2165.8	2141.1	2108.2	2118.4	2091.7	2073.2
32.5°	2159.6	2153.4	2192.5	2237.7	2246.0	2233.6	2221.3	2239.8	2196.6	2176.0	2143.1
35°	2221.3	2248.0	2295.3	2330.3	2357.0	2344.7	2350.9	2332.3	2342.6	2299.4	2285.0
37.5°	2404.3	2394.1	2404.3	2464.0	2470.2	2464.0	2470.2	2490.7	2476.3	2439.3	2402.3
40°	2577.1	2560.6	2585.3	2653.2	2649.1	2669.7	2628.5	2651.1	2651.1	2581.2	2566.8
42.5°	2706.7	2762.2	2791.0	2846.5	2867.1	2848.6	2840.4	2844.5	2889.7	2807.5	2776.6
45°	2974.1	2972.0	3058.4	3089.2	3031.6	3027.5	3011.1	3060.4	3091.3	3044.0	3031.6
47.5°	3264.1	3278.5	3327.8	3340.2	3375.1	3311.4	3311.4	3317.5	3426.5	3315.5	3257.9
50°	3525.3	3543.8	3642.5	3739.2	3673.3	3605.5	3632.2	3665.1	3724.8	3619.9	3570.5
52.5°	3842.0	3942.8	4008.6	4060.0	4107.3	4060.0	3998.3	4035.3	4152.6	4012.7	3951.0
55°	4298.6	4378.8	4440.5	4535.1	4574.2	4510.4	4504.3	4500.2	4566.0	4417.9	4333.6
57.5°	4808.7	4775.8	4874.5	5020.5	5162.4	5100.7	5082.2	5086.3	5102.8	4893.0	4829.2
60°	5442.1	5479.2	5596.4	5723.9	5874.1	5960.4	5839.1	5769.2	5783.6	5497.7	5399.0
62.5°	5804.1	5886.4	6151.7	6589.8	6892.2	7161.6	7180.1	6725.6	6421.2	5865.8	5446.3
65°	5629.3	5617.0	6116.8	6927.1	8072.7	8856.3	8739.1	7636.7	6573.4	5691.0	5127.5
67.5°	4788.1	4755.2	5359.9	6645.3	8537.5	10248.8	10115.1	7893.8	6059.2	5034.9	4397.3
70°	3085.1	3076.9	3733.0	5065.8	7622.3	9409.6	9459.0	7169.8	4932.1	3687.7	3056.3
72.5°	1120.9	1188.8	1569.3	2723.1	5176.8	7198.6	7229.5	5308.5	2836.3	1705.0	1256.7
75°	413.4	425.7	495.7	884.4	2359.1	4419.9	4535.1	2575.0	1007.8	555.3	452.5
77.5°	238.6	240.6	265.3	329.1	699.3	1725.6	1795.5	781.6	390.8	296.2	273.5
80°	162.5	160.4	187.2	213.9	279.7	489.5	520.4	327.0	246.8	205.7	172.8
82.5°	94.6	100.8	137.8	152.2	170.7	216.0	220.1	203.6	185.1	152.2	113.1
85°	57.6	47.3	76.1	84.3	98.7	96.7	96.7	111.1	119.3	107.0	63.8
87.5°	14.4	14.4	18.5	20.6	26.7	20.6	22.6	43.2	57.6	53.5	32.9
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°	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3	1968.3
2.5°	1972.4	1966.2	1970.4	1993.0	1978.6	1935.4	1945.7	1968.3	1949.8	1939.5	1937.5
5°	1964.2	1976.5	1962.1	1966.2	1980.6	1945.7	1951.9	1980.6	1968.3	1972.4	1949.8
7.5°	1966.2	1972.4	1960.1	1941.6	1941.6	1970.4	1953.9	1958.0	1939.5	1970.4	1929.2
10°	1953.9	1937.5	1923.1	1933.3	1929.2	1921.0	1914.8	1927.2	1908.7	1935.4	1906.6
12.5°	1916.9	1921.0	1916.9	1912.8	1921.0	1941.6	1908.7	1912.8	1884.0	1888.1	1902.5
15°	1902.5	1914.8	1910.7	1933.3	1943.6	1912.8	1937.5	1912.8	1890.1	1877.8	1900.4
17.5°	1908.7	1927.2	1921.0	1937.5	1918.9	1941.6	1945.7	1935.4	1908.7	1898.4	1908.7
20°	1914.8	1908.7	1916.9	1945.7	1972.4	1949.8	1949.8	1943.6	1918.9	1904.5	1904.5
22.5°	1929.2	1918.9	1931.3	1953.9	1962.1	1997.1	1966.2	1951.9	1910.7	1873.7	1908.7
25°	1958.0	1964.2	1972.4	1964.2	2009.4	2005.3	2001.2	1990.9	1927.2	1929.2	1923.1
27.5°	2013.6	1978.6	1988.9	2038.2	2044.4	2060.9	2040.3	2058.8	1990.9	1993.0	1951.9
30°	2081.4	2044.4	2077.3	2120.5	2118.4	2149.3	2139.0	2143.1	2095.8	2069.1	2013.6
32.5°	2155.5	2151.4	2171.9	2198.7	2208.9	2225.4	2223.3	2223.3	2194.5	2124.6	2134.9
35°	2237.7	2266.5	2291.2	2320.0	2324.1	2344.7	2315.9	2320.0	2291.2	2239.8	2256.2
37.5°	2400.2	2398.2	2424.9	2459.9	2464.0	2447.5	2470.2	2459.9	2420.8	2385.8	2359.1
40°	2589.4	2548.3	2573.0	2655.3	2661.4	2632.6	2630.6	2628.5	2599.7	2523.6	2507.2
42.5°	2754.0	2807.5	2803.3	2830.1	2811.6	2797.2	2848.6	2819.8	2797.2	2717.0	2702.6
45°	2965.8	2982.3	3035.8	3122.1	3033.7	3033.7	3068.7	3046.0	3033.7	2974.1	2918.5
47.5°	3229.1	3243.5	3350.4	3356.6	3299.0	3259.9	3368.9	3373.1	3321.6	3276.4	3208.5
50°	3537.6	3543.8	3640.4	3739.2	3675.4	3601.4	3712.4	3755.6	3640.4	3578.7	3494.4
52.5°	3877.0	3858.5	3938.7	4123.8	4062.1	4039.4	4158.7	4169.0	4012.7	3916.0	3938.7
55°	4267.7	4243.1	4461.1	4586.5	4547.5	4506.3	4559.8	4584.5	4459.0	4300.7	4356.2
57.5°	4773.7	4786.0	4895.1	5018.5	5082.2	5092.5	5117.2	5092.5	4965.0	4804.6	4753.1
60°	5279.7	5316.7	5528.5	5760.9	5781.5	5962.5	5929.6	5806.2	5625.2	5396.9	5407.2
62.5°	5466.8	5436.0	5777.4	6345.1	6828.4	7159.5	7013.5	6575.4	6155.8	5740.4	5771.2
65°	5090.4	5166.5	5631.4	6519.9	7568.8	8879.0	8101.5	6890.1	6042.7	5505.9	5446.3
67.5°	4387.0	4444.6	5034.9	5972.8	7834.1	9936.1	8512.9	6445.8	5329.0	4633.8	4670.9
70°	3056.3	3085.1	3663.1	4893.0	7104.0	9376.7	7679.9	4950.6	3679.5	2932.9	2974.1
72.5°	1229.9	1299.9	1680.4	2947.3	5244.7	7124.6	5170.7	2597.7	1526.1	1135.3	1030.4
75°	454.5	456.6	536.8	1014.0	2490.7	4477.5	2332.3	835.0	487.4	399.0	380.5
77.5°	263.3	261.2	279.7	366.1	721.9	1748.2	662.3	327.0	265.3	238.6	228.3
80°	164.5	162.5	191.3	242.7	316.7	479.2	279.7	203.6	178.9	154.3	154.3
82.5°	104.9	107.0	150.1	178.9	193.3	211.8	162.5	144.0	133.7	88.4	86.4
85°	67.9	61.7	104.9	119.3	107.0	94.6	90.5	76.1	69.9	43.2	47.3
87.5°	30.9	32.9	53.5	59.6	39.1	22.6	22.6	16.5	16.5	10.3	10.3
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)