

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: P479325

Luminaire Tested: **IFLD-S-SA2E-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479325
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

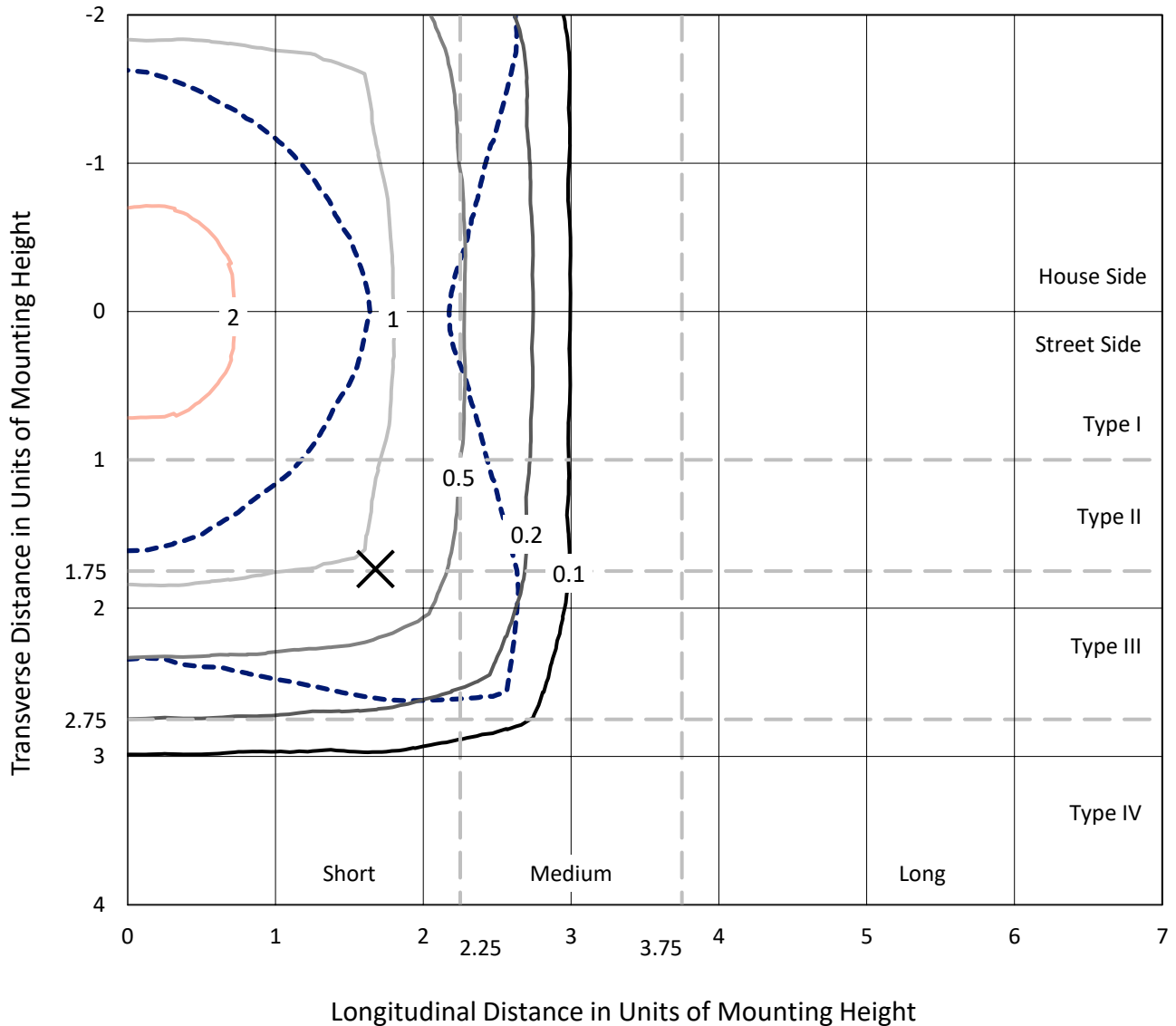
Lumens per Lamp: N/A
Luminaire Lumens: 18269.6 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

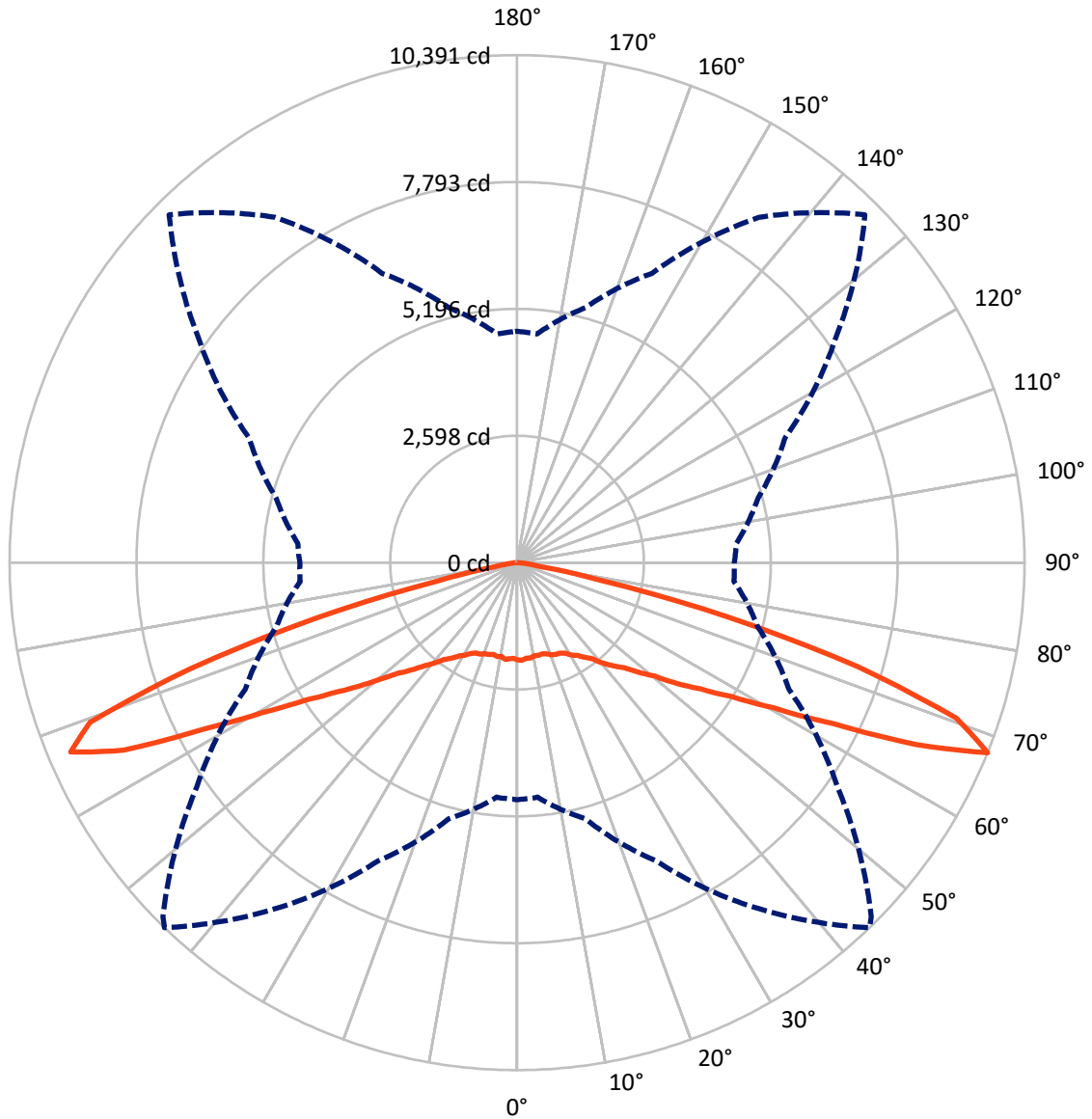
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	9111.4	0.0	9111.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9158.2	0.0	9158.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	18269.6	0.0	18269.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	1.0
10°-20°	551.7	3.0
20°-30°	938.2	5.1
30°-40°	1487.6	8.1
40°-50°	2425.6	13.3
50°-60°	4142.7	22.7
60°-70°	6300.9	34.5
70°-80°	2123.8	11.6
80°-90°	110.3	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°	18269.6	100.0
0°-180°	18269.6	100.0

Coefficient of Utilization



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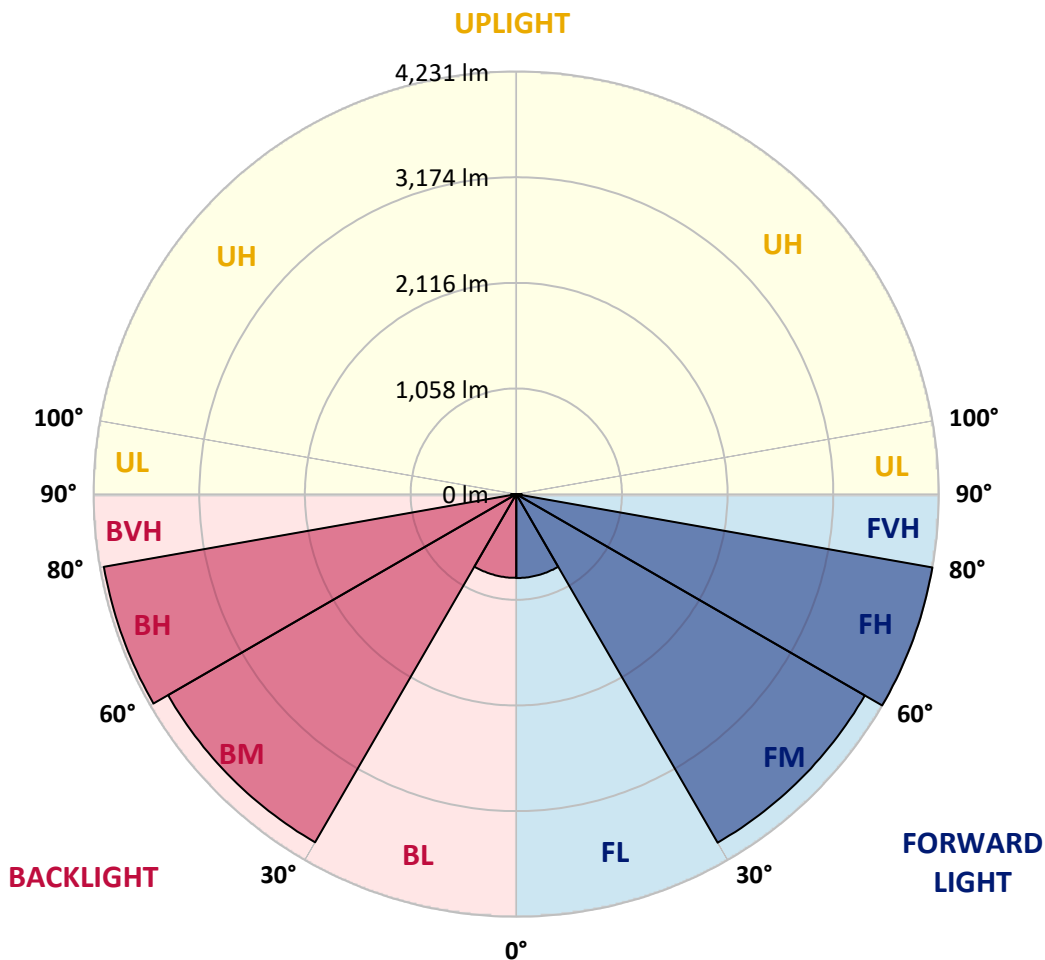
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.3	4.6			
FM (30°-60°)	4030.1	22.1			
FH (60°-80°)	4231.4	23.2			G2/5000
FVH (80°-90°)	56.4	0.3			G1/100
BL (0°-30°)	838.5	4.6	B2/1000		
BM (30°-60°)	4025.8	22.0	B3/5000		
BH (60°-80°)	4193.3	23.0	B4/5000		G2/5000
BVH (80°-90°)	53.9	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°	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6
2.5°	1949.8	1972.7	1989.4	1987.3	1993.6	1999.8	1991.5	2004.0	1995.6	2010.2	2018.6
5°	1987.3	1981.0	1983.1	1970.6	1999.8	1966.5	1966.5	1983.1	2004.0	1979.0	1993.6
7.5°	1964.4	1960.2	1949.8	1968.5	1974.8	1974.8	1991.5	1960.2	1995.6	2004.0	2006.1
10°	1939.3	1916.4	1947.7	1966.5	1970.6	1937.3	1951.9	1960.2	1949.8	1960.2	1966.5
12.5°	1918.5	1931.0	1931.0	1931.0	1924.7	1947.7	1962.3	1960.2	1939.3	1958.1	1924.7
15°	1916.4	1910.1	1928.9	1945.6	1935.2	1939.3	1945.6	1964.4	1924.7	1933.1	1933.1
17.5°	1914.3	1922.7	1928.9	1926.8	1962.3	1962.3	1956.0	1943.5	1974.8	1958.1	1935.2
20°	1922.7	1916.4	1933.1	1939.3	1964.4	2014.4	1995.6	1985.2	1968.5	1947.7	1947.7
22.5°	1933.1	1928.9	1951.9	1979.0	2026.9	2039.4	2037.4	2024.8	1995.6	1970.6	1966.5
25°	1970.6	1933.1	1958.1	2010.2	2026.9	2051.9	2068.6	2051.9	2012.3	2018.6	1981.0
27.5°	2026.9	2020.7	2054.0	2089.5	2074.9	2097.8	2083.2	2095.7	2097.8	2066.5	2029.0
30°	2093.7	2074.9	2095.7	2164.6	2170.8	2195.8	2170.8	2137.4	2147.9	2120.8	2102.0
32.5°	2189.6	2183.3	2222.9	2268.8	2277.2	2264.7	2252.1	2270.9	2227.1	2206.3	2172.9
35°	2252.1	2279.2	2327.2	2362.7	2389.8	2377.3	2383.5	2364.7	2375.2	2331.4	2316.8
37.5°	2437.7	2427.3	2437.7	2498.2	2504.5	2498.2	2504.5	2525.3	2510.7	2473.2	2435.6
40°	2612.9	2596.2	2621.2	2690.1	2685.9	2706.7	2665.0	2688.0	2688.0	2617.1	2602.5
42.5°	2744.3	2800.6	2829.8	2886.1	2906.9	2888.2	2879.8	2884.0	2929.9	2846.5	2815.2
45°	3015.4	3013.3	3100.9	3132.1	3073.8	3069.6	3052.9	3102.9	3134.2	3086.3	3073.8
47.5°	3309.4	3324.0	3374.0	3386.5	3422.0	3357.4	3357.4	3363.6	3474.1	3361.5	3303.1
50°	3574.2	3593.0	3693.1	3791.1	3724.4	3655.6	3682.7	3716.0	3776.5	3670.2	3620.1
52.5°	3895.4	3997.5	4064.3	4116.4	4164.4	4116.4	4053.8	4091.4	4210.2	4068.4	4005.9
55°	4358.3	4439.6	4502.2	4598.1	4637.7	4573.1	4566.8	4562.7	4629.4	4479.3	4393.8
57.5°	4875.5	4842.1	4942.2	5090.3	5234.1	5171.6	5152.8	5157.0	5173.7	4961.0	4896.3
60°	5517.7	5555.3	5674.1	5803.4	5955.7	6043.2	5920.2	5849.3	5863.9	5574.0	5473.9
62.5°	5884.8	5968.2	6237.2	6681.3	6987.9	7261.1	7279.8	6819.0	6510.3	5947.3	5521.9
65°	5707.5	5695.0	6201.7	7023.3	8184.9	8979.4	8860.5	7742.8	6664.7	5770.1	5198.7
67.5°	4854.6	4821.2	5434.3	6737.6	8656.1	10391.1	10255.6	8003.4	6143.3	5104.8	4458.4
70°	3128.0	3119.6	3784.8	5136.1	7728.2	9540.3	9590.4	7269.4	5000.6	3739.0	3098.8
72.5°	1136.5	1205.3	1591.1	2761.0	5248.7	7298.6	7329.9	5382.2	2875.6	1728.7	1274.1
75°	419.1	431.7	502.6	896.7	2391.9	4481.3	4598.1	2610.8	1021.8	563.0	458.8
77.5°	241.9	244.0	269.0	333.7	709.0	1749.6	1820.5	792.4	396.2	300.3	277.3
80°	164.7	162.7	189.8	216.9	283.6	496.3	527.6	331.6	250.2	208.5	175.2
82.5°	95.9	102.2	139.7	154.3	173.1	219.0	223.1	206.4	187.7	154.3	114.7
85°	58.4	48.0	77.2	85.5	100.1	98.0	98.0	112.6	120.9	108.4	64.6
87.5°	14.6	14.6	18.8	20.9	27.1	20.9	22.9	43.8	58.4	54.2	33.4
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°	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6
2.5°	1999.8	1993.6	1997.7	2020.7	2006.1	1962.3	1972.7	1995.6	1976.9	1966.5	1964.4
5°	1991.5	2004.0	1989.4	1993.6	2008.2	1972.7	1979.0	2008.2	1995.6	1999.8	1976.9
7.5°	1993.6	1999.8	1987.3	1968.5	1968.5	1997.7	1981.0	1985.2	1966.5	1997.7	1956.0
10°	1981.0	1964.4	1949.8	1960.2	1956.0	1947.7	1941.4	1953.9	1935.2	1962.3	1933.1
12.5°	1943.5	1947.7	1943.5	1939.3	1947.7	1968.5	1935.2	1939.3	1910.1	1914.3	1928.9
15°	1928.9	1941.4	1937.3	1960.2	1970.6	1939.3	1964.4	1939.3	1916.4	1903.9	1926.8
17.5°	1935.2	1953.9	1947.7	1964.4	1945.6	1968.5	1972.7	1962.3	1935.2	1924.7	1935.2
20°	1941.4	1935.2	1943.5	1972.7	1999.8	1976.9	1976.9	1970.6	1945.6	1931.0	1931.0
22.5°	1956.0	1945.6	1958.1	1981.0	1989.4	2024.8	1993.6	1979.0	1937.3	1899.7	1935.2
25°	1985.2	1991.5	1999.8	1991.5	2037.4	2033.2	2029.0	2018.6	1953.9	1956.0	1949.8
27.5°	2041.5	2006.1	2016.5	2066.5	2072.8	2089.5	2068.6	2087.4	2018.6	2020.7	1979.0
30°	2110.3	2072.8	2106.2	2150.0	2147.9	2179.2	2168.7	2172.9	2124.9	2097.8	2041.5
32.5°	2185.4	2181.2	2202.1	2229.2	2239.6	2256.3	2254.2	2254.2	2225.0	2154.1	2164.6
35°	2268.8	2298.0	2323.0	2352.2	2356.4	2377.3	2348.1	2352.2	2323.0	2270.9	2287.6
37.5°	2433.6	2431.5	2458.6	2494.0	2498.2	2481.5	2504.5	2494.0	2454.4	2419.0	2391.9
40°	2625.4	2583.7	2608.7	2692.1	2698.4	2669.2	2667.1	2665.0	2635.8	2558.7	2542.0
42.5°	2792.2	2846.5	2842.3	2869.4	2850.6	2836.0	2888.2	2859.0	2836.0	2754.7	2740.1
45°	3007.0	3023.7	3077.9	3165.5	3075.8	3075.8	3111.3	3088.3	3075.8	3015.4	2959.1
47.5°	3273.9	3288.5	3397.0	3403.2	3344.8	3305.2	3415.7	3419.9	3367.8	3321.9	3253.1
50°	3586.7	3593.0	3691.0	3791.1	3726.5	3651.4	3764.0	3807.8	3691.0	3628.4	3542.9
52.5°	3930.8	3912.0	3993.4	4181.1	4118.5	4095.6	4216.5	4226.9	4068.4	3970.4	3993.4
55°	4327.0	4302.0	4523.0	4650.2	4610.6	4568.9	4623.1	4648.2	4521.0	4360.4	4416.7
57.5°	4840.0	4852.5	4963.0	5088.2	5152.8	5163.2	5188.3	5163.2	5033.9	4871.3	4819.2
60°	5353.0	5390.5	5605.3	5841.0	5861.8	6045.3	6012.0	5886.8	5703.3	5471.9	5482.3
62.5°	5542.8	5511.5	5857.6	6433.2	6923.2	7259.0	7110.9	6666.7	6241.3	5820.1	5851.4
65°	5161.2	5238.3	5709.6	6610.4	7674.0	9002.3	8214.1	6985.8	6126.7	5582.4	5521.9
67.5°	4448.0	4506.4	5104.8	6055.8	7943.0	10074.2	8631.1	6535.4	5403.0	4698.2	4735.7
70°	3098.8	3128.0	3713.9	4961.0	7202.7	9506.9	7786.6	5019.3	3730.6	2973.7	3015.4
72.5°	1247.0	1317.9	1703.7	2988.3	5317.5	7223.5	5242.5	2633.8	1547.3	1151.1	1044.7
75°	460.9	462.9	544.3	1028.1	2525.3	4539.7	2364.7	846.6	494.2	404.6	385.8
77.5°	266.9	264.8	283.6	371.2	731.9	1772.5	671.5	331.6	269.0	241.9	231.5
80°	166.8	164.7	193.9	246.1	321.1	485.9	283.6	206.4	181.4	156.4	156.4
82.5°	106.4	108.4	152.2	181.4	196.0	214.8	164.7	146.0	135.5	89.7	87.6
85°	68.8	62.6	106.4	120.9	108.4	95.9	91.8	77.2	70.9	43.8	48.0
87.5°	31.3	33.4	54.2	60.5	39.6	22.9	22.9	16.7	16.7	10.4	10.4
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)