

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: P479364

Luminaire Tested: **IFLD-S-SA2E-750-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479364
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

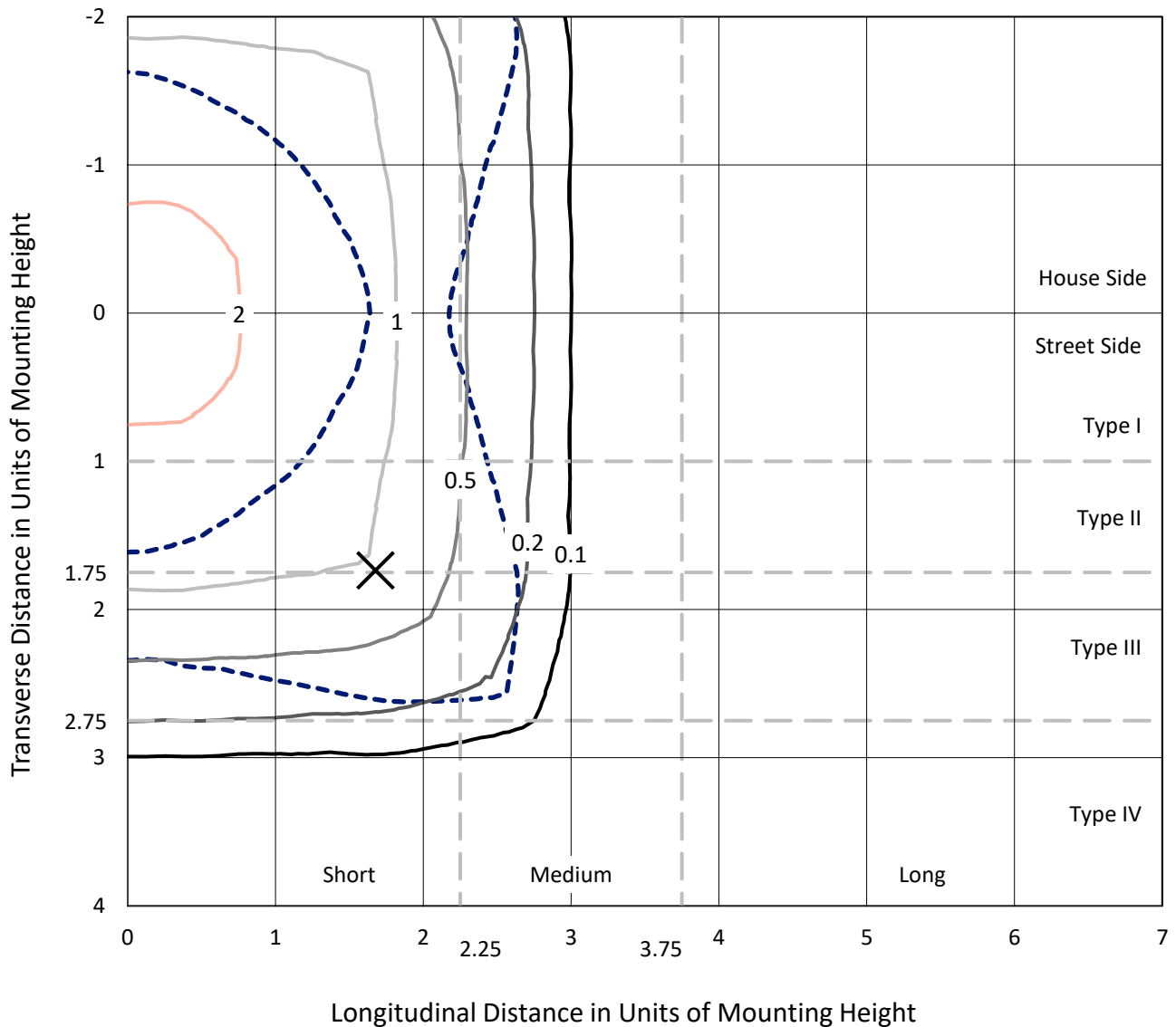
Lumens per Lamp: N/A
Luminaire Lumens: 18688 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

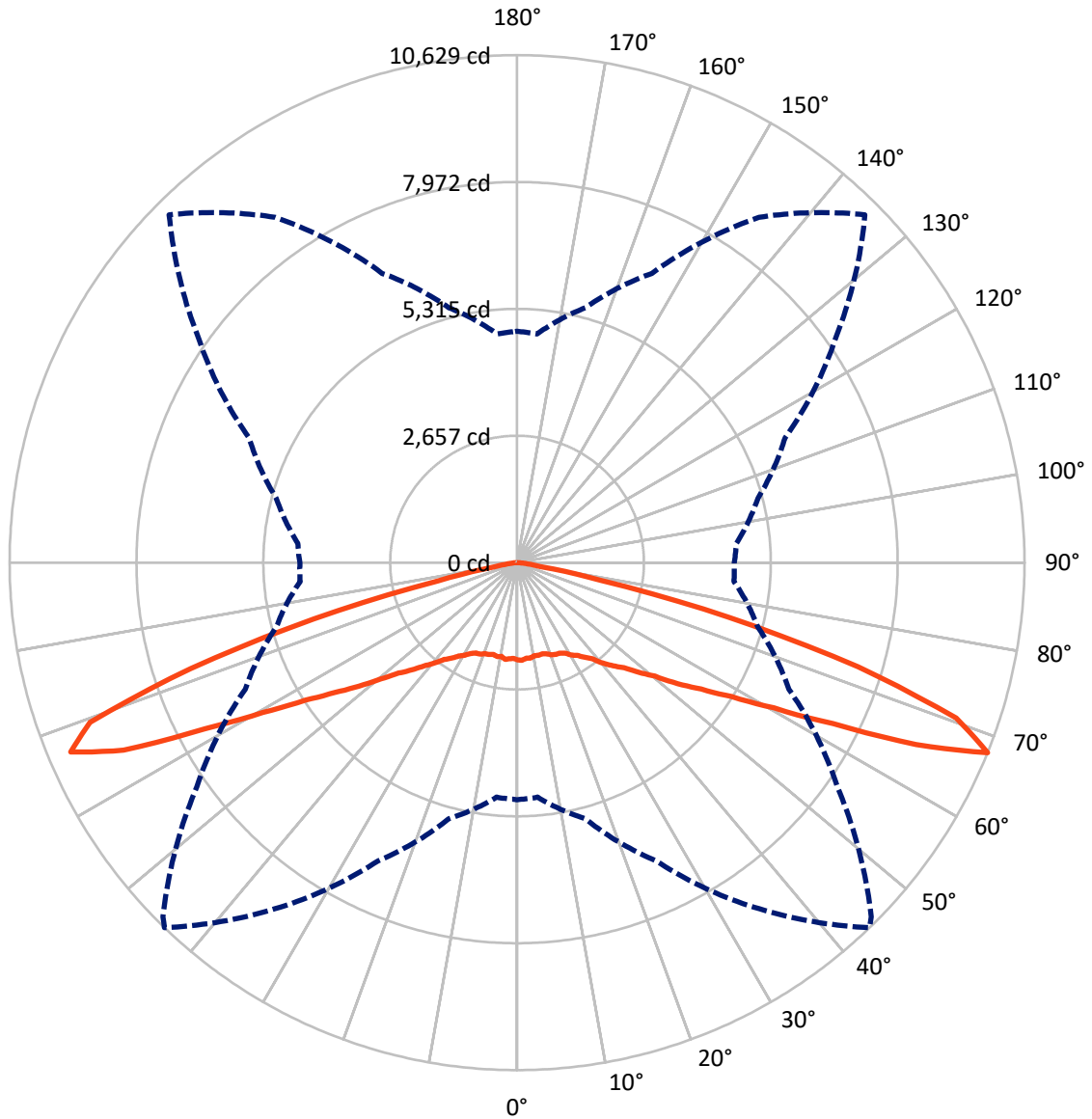
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	9320.1	0.0	9320.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9367.9	0.0	9367.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	18688.0	0.0	18688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.0
10°-20°	564.4	3.0
20°-30°	959.7	5.1
30°-40°	1521.6	8.1
40°-50°	2481.2	13.3
50°-60°	4237.5	22.7
60°-70°	6445.2	34.5
70°-80°	2172.4	11.6
80°-90°	112.8	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°	18688.0	100.0
0°-180°	18688.0	100.0

Coefficient of Utilization



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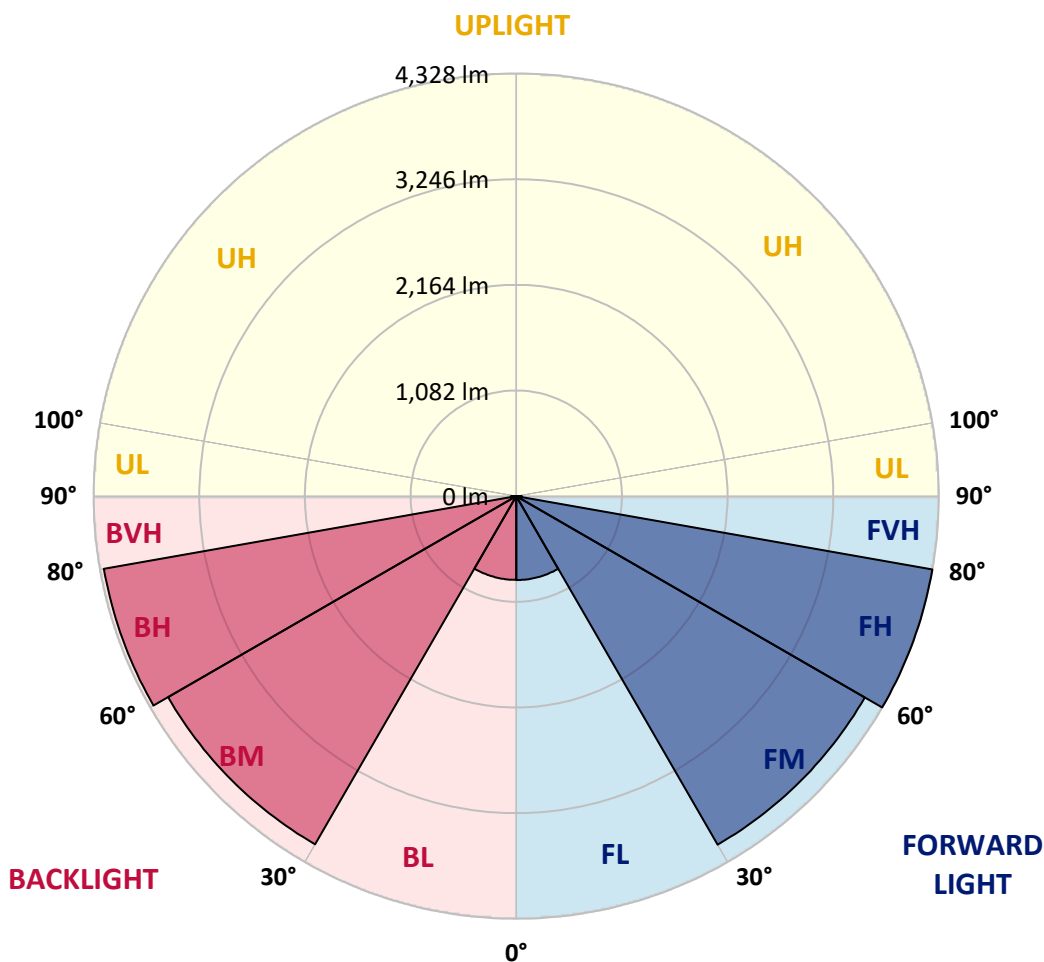
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.5	4.6			
FM (30°-60°)	4122.4	22.1			
FH (60°-80°)	4328.3	23.2			G2/5000
FVH (80°-90°)	57.7	0.3			G1/100
BL (0°-30°)	857.7	4.6	B2/1000		
BM (30°-60°)	4117.9	22.0	B3/5000		
BH (60°-80°)	4289.3	23.0	B4/5000		G2/5000
BVH (80°-90°)	55.1	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°	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3
2.5°	1994.4	2017.9	2034.9	2032.8	2039.2	2045.6	2037.1	2049.9	2041.3	2056.3	2064.8
5°	2032.8	2026.4	2028.5	2015.7	2045.6	2011.5	2011.5	2028.5	2049.9	2024.3	2039.2
7.5°	2009.3	2005.1	1994.4	2013.6	2020.0	2020.0	2037.1	2005.1	2041.3	2049.9	2052.0
10°	1983.8	1960.3	1992.3	2011.5	2015.7	1981.6	1996.6	2005.1	1994.4	2005.1	2011.5
12.5°	1962.4	1975.2	1975.2	1975.2	1968.8	1992.3	2007.2	2005.1	1983.8	2003.0	1968.8
15°	1960.3	1953.9	1973.1	1990.2	1979.5	1983.8	1990.2	2009.3	1968.8	1977.4	1977.4
17.5°	1958.2	1966.7	1973.1	1971.0	2007.2	2007.2	2000.8	1988.0	2020.0	2003.0	1979.5
20°	1966.7	1960.3	1977.4	1983.8	2009.3	2060.5	2041.3	2030.7	2013.6	1992.3	1992.3
22.5°	1977.4	1973.1	1996.6	2024.3	2073.3	2086.1	2084.0	2071.2	2041.3	2015.7	2011.5
25°	2015.7	1977.4	2003.0	2056.3	2073.3	2098.9	2116.0	2098.9	2058.4	2064.8	2026.4
27.5°	2073.3	2066.9	2101.1	2137.3	2122.4	2145.9	2130.9	2143.7	2145.9	2113.9	2075.5
30°	2141.6	2122.4	2143.7	2214.1	2220.5	2246.1	2220.5	2186.4	2197.1	2169.3	2150.1
32.5°	2239.7	2233.3	2273.8	2320.8	2329.3	2316.5	2303.7	2322.9	2278.1	2256.8	2222.7
35°	2303.7	2331.4	2380.5	2416.8	2444.5	2431.7	2438.1	2418.9	2429.6	2384.8	2369.8
37.5°	2493.6	2482.9	2493.6	2555.4	2561.8	2555.4	2561.8	2583.1	2568.2	2529.8	2491.4
40°	2672.7	2655.7	2681.3	2751.7	2747.4	2768.7	2726.1	2749.5	2749.5	2677.0	2662.1
42.5°	2807.1	2864.7	2894.6	2952.2	2973.5	2954.3	2945.8	2950.0	2997.0	2911.6	2879.6
45°	3084.4	3082.3	3171.9	3203.9	3144.1	3139.9	3122.8	3174.0	3206.0	3156.9	3144.1
47.5°	3385.2	3400.1	3451.3	3464.1	3500.4	3434.2	3434.2	3440.6	3553.7	3438.5	3378.8
50°	3656.1	3675.3	3777.7	3877.9	3809.7	3739.3	3767.0	3801.1	3863.0	3754.2	3703.0
52.5°	3984.6	4089.1	4157.3	4210.7	4259.7	4210.7	4146.7	4185.1	4306.7	4161.6	4097.6
55°	4458.1	4541.3	4605.3	4703.4	4743.9	4677.8	4671.4	4667.2	4735.4	4581.8	4494.4
57.5°	4987.1	4953.0	5055.4	5206.8	5354.0	5290.0	5270.8	5275.1	5292.1	5074.6	5008.4
60°	5644.1	5682.5	5804.1	5936.3	6092.0	6181.6	6055.8	5983.3	5998.2	5701.7	5599.3
62.5°	6019.5	6104.8	6380.0	6834.3	7147.9	7427.3	7446.5	6975.1	6659.4	6083.5	5648.4
65°	5838.2	5825.4	6343.7	7184.2	8372.3	9185.0	9063.4	7920.1	6817.3	5902.2	5317.7
67.5°	4965.8	4931.7	5558.8	6891.9	8854.4	10629.1	10490.4	8186.7	6284.0	5221.7	4560.5
70°	3199.6	3191.1	3871.5	5253.7	7905.1	9758.8	9810.0	7435.9	5115.1	3824.6	3169.7
72.5°	1162.5	1232.9	1627.5	2824.2	5368.9	7465.7	7497.7	5505.4	2941.5	1768.3	1303.3
75°	428.7	441.5	514.1	917.2	2446.6	4584.0	4703.4	2670.6	1045.2	575.9	469.3
77.5°	247.4	249.6	275.2	341.3	725.2	1789.6	1862.2	810.6	405.3	307.2	283.7
80°	168.5	166.4	194.1	221.8	290.1	507.7	539.7	339.2	256.0	213.3	179.2
82.5°	98.1	104.5	142.9	157.8	177.0	224.0	228.2	211.2	192.0	157.8	117.3
85°	59.7	49.1	78.9	87.5	102.4	100.3	100.3	115.2	123.7	110.9	66.1
87.5°	14.9	14.9	19.2	21.3	27.7	21.3	23.5	44.8	59.7	55.5	34.1
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°	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3	2041.3
2.5°	2045.6	2039.2	2043.5	2066.9	2052.0	2007.2	2017.9	2041.3	2022.1	2011.5	2009.3
5°	2037.1	2049.9	2034.9	2039.2	2054.1	2017.9	2024.3	2054.1	2041.3	2045.6	2022.1
7.5°	2039.2	2045.6	2032.8	2013.6	2013.6	2043.5	2026.4	2030.7	2011.5	2043.5	2000.8
10°	2026.4	2009.3	1994.4	2005.1	2000.8	1992.3	1985.9	1998.7	1979.5	2007.2	1977.4
12.5°	1988.0	1992.3	1988.0	1983.8	1992.3	2013.6	1979.5	1983.8	1953.9	1958.2	1973.1
15°	1973.1	1985.9	1981.6	2005.1	2015.7	1983.8	2009.3	1983.8	1960.3	1947.5	1971.0
17.5°	1979.5	1998.7	1992.3	2009.3	1990.2	2013.6	2017.9	2007.2	1979.5	1968.8	1979.5
20°	1985.9	1979.5	1988.0	2017.9	2045.6	2022.1	2022.1	2015.7	1990.2	1975.2	1975.2
22.5°	2000.8	1990.2	2003.0	2026.4	2034.9	2071.2	2039.2	2024.3	1981.6	1943.2	1979.5
25°	2030.7	2037.1	2045.6	2037.1	2084.0	2079.7	2075.5	2064.8	1998.7	2000.8	1994.4
27.5°	2088.3	2052.0	2062.7	2113.9	2120.3	2137.3	2116.0	2135.2	2064.8	2066.9	2024.3
30°	2158.7	2120.3	2154.4	2199.2	2197.1	2229.1	2218.4	2222.7	2173.6	2145.9	2088.3
32.5°	2235.5	2231.2	2252.5	2280.2	2290.9	2308.0	2305.8	2305.8	2276.0	2203.5	2214.1
35°	2320.8	2350.6	2376.2	2406.1	2410.4	2431.7	2401.8	2406.1	2376.2	2322.9	2340.0
37.5°	2489.3	2487.2	2514.9	2551.1	2555.4	2538.4	2561.8	2551.1	2510.6	2474.4	2446.6
40°	2685.5	2642.9	2668.5	2753.8	2760.2	2730.3	2728.2	2726.1	2696.2	2617.3	2600.2
42.5°	2856.2	2911.6	2907.4	2935.1	2915.9	2901.0	2954.3	2924.4	2901.0	2817.8	2802.9
45°	3075.9	3092.9	3148.4	3238.0	3146.3	3146.3	3182.5	3159.1	3146.3	3084.4	3026.8
47.5°	3348.9	3363.8	3474.8	3481.2	3421.4	3380.9	3494.0	3498.2	3444.9	3398.0	3327.6
50°	3668.9	3675.3	3775.5	3877.9	3811.8	3735.0	3850.2	3895.0	3775.5	3711.5	3624.1
52.5°	4020.8	4001.6	4084.8	4276.8	4212.8	4189.3	4313.1	4323.7	4161.6	4061.4	4084.8
55°	4426.1	4400.5	4626.6	4756.7	4716.2	4673.6	4729.0	4754.6	4624.5	4460.2	4517.8
57.5°	4950.8	4963.6	5076.7	5204.7	5270.8	5281.5	5307.1	5281.5	5149.2	4982.8	4929.5
60°	5475.6	5514.0	5733.7	5974.7	5996.1	6183.8	6149.6	6021.6	5833.9	5597.2	5607.8
62.5°	5669.7	5637.7	5991.8	6580.5	7081.8	7425.2	7273.8	6819.4	6384.3	5953.4	5985.4
65°	5279.3	5358.3	5840.3	6761.8	7849.7	9208.5	8402.2	7145.8	6267.0	5710.2	5648.4
67.5°	4549.8	4609.6	5221.7	6194.4	8124.9	10304.8	8828.8	6685.0	5526.8	4805.8	4844.2
70°	3169.7	3199.6	3799.0	5074.6	7367.6	9724.7	7964.9	5134.3	3816.1	3041.8	3084.4
72.5°	1275.6	1348.1	1742.7	3056.7	5439.3	7388.9	5362.5	2694.1	1582.7	1177.5	1068.7
75°	471.4	473.5	556.7	1051.6	2583.1	4643.7	2418.9	866.0	505.5	413.8	394.6
77.5°	273.0	270.9	290.1	379.7	748.7	1813.1	686.8	339.2	275.2	247.4	236.8
80°	170.6	168.5	198.4	251.7	328.5	497.0	290.1	211.2	185.6	160.0	160.0
82.5°	108.8	110.9	155.7	185.6	200.5	219.7	168.5	149.3	138.6	91.7	89.6
85°	70.4	64.0	108.8	123.7	110.9	98.1	93.9	78.9	72.5	44.8	49.1
87.5°	32.0	34.1	55.5	61.9	40.5	23.5	23.5	17.1	17.1	10.7	10.7
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)