

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: P479424

Luminaire Tested: **IFLD-M-SA4A-760-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

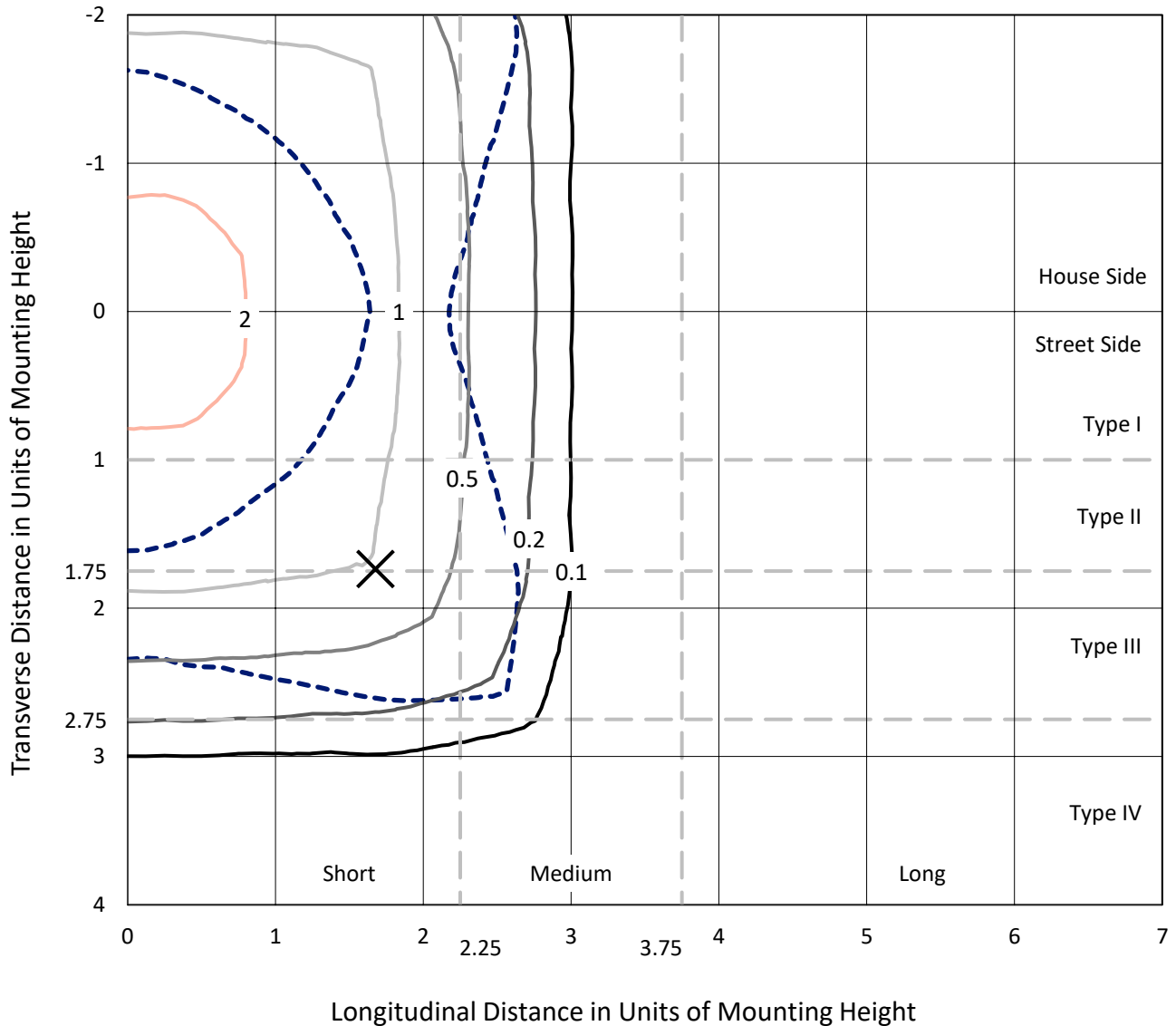
Lumens per Lamp: N/A
Luminaire Lumens: 19068 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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

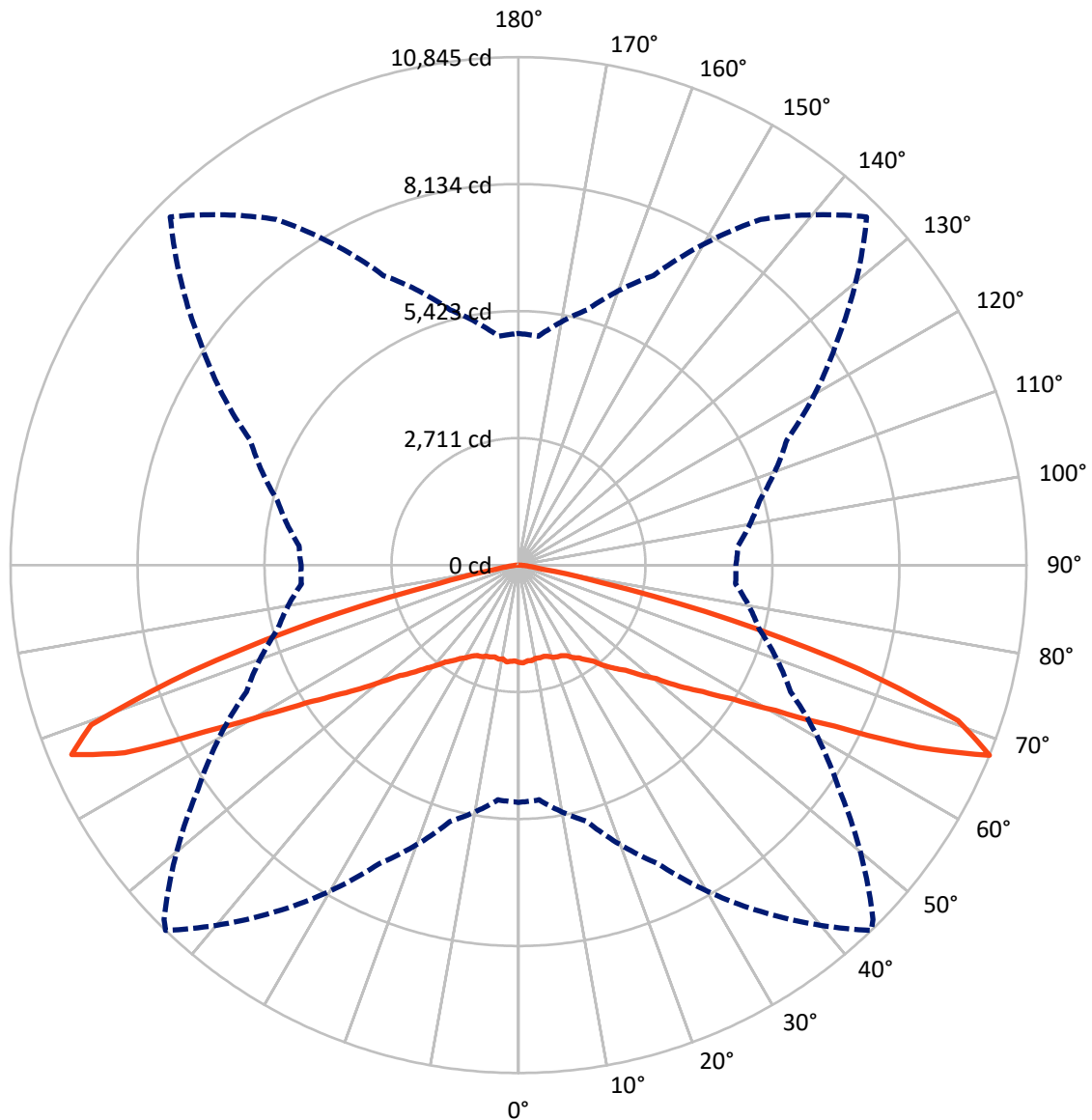
× Max cd
 - - - 1/2 Max cd



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	9509.6	0.0	9509.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9558.4	0.0	9558.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	19068.0	0.0	19068.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	1.0
10°-20°	575.8	3.0
20°-30°	979.2	5.1
30°-40°	1552.6	8.1
40°-50°	2531.6	13.3
50°-60°	4323.7	22.7
60°-70°	6576.3	34.5
70°-80°	2216.6	11.6
80°-90°	115.1	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°	19068.0	100.0
0°-180°	19068.0	100.0



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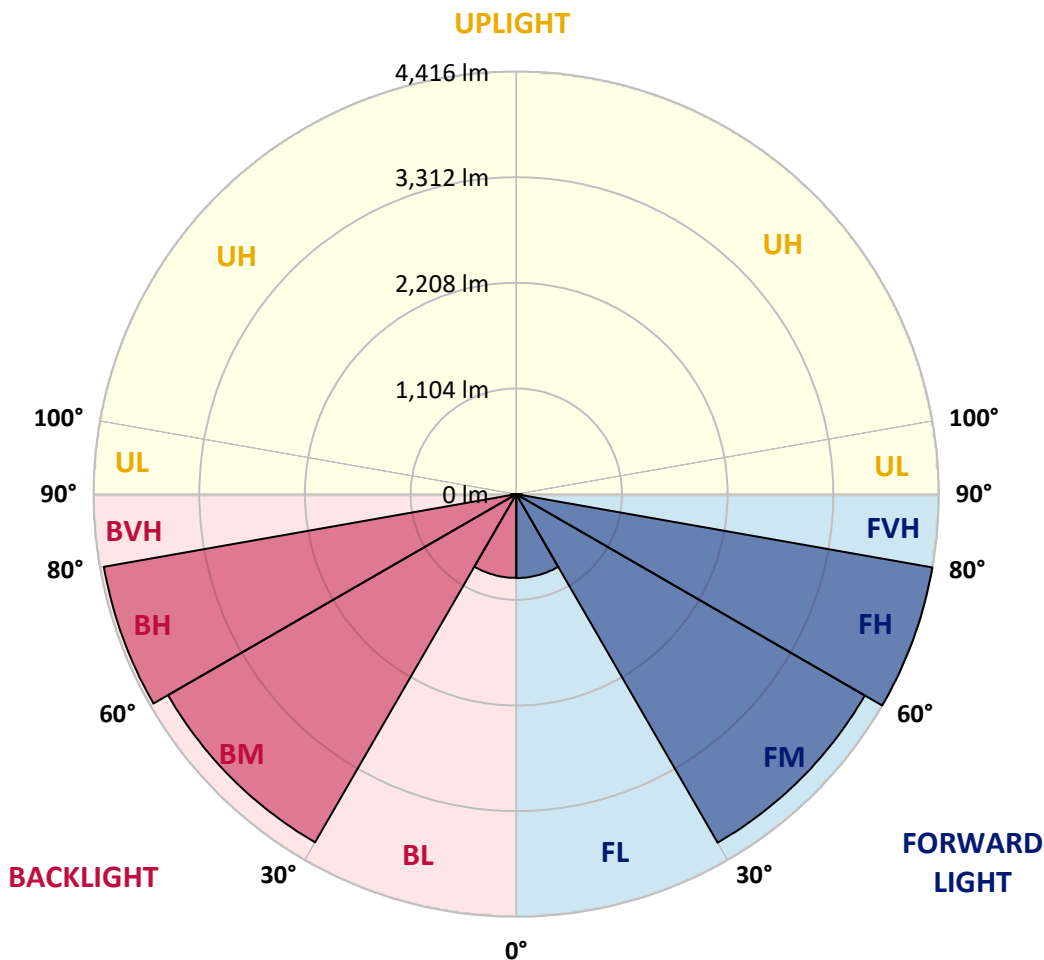
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.0	4.6			
FM (30°-60°)	4206.2	22.1			
FH (60°-80°)	4416.4	23.2			G2/5000
FVH (80°-90°)	58.9	0.3			G1/100
BL (0°-30°)	875.2	4.6	B2/1000		
BM (30°-60°)	4201.7	22.0	B3/5000		
BH (60°-80°)	4376.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	56.2	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°	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9
2.5°	2035.0	2058.9	2076.3	2074.1	2080.7	2087.2	2078.5	2091.6	2082.9	2098.1	2106.8
5°	2074.1	2067.6	2069.8	2056.7	2087.2	2052.4	2052.4	2069.8	2091.6	2065.4	2080.7
7.5°	2050.2	2045.9	2035.0	2054.6	2061.1	2061.1	2078.5	2045.9	2082.9	2091.6	2093.7
10°	2024.1	2000.1	2032.8	2052.4	2056.7	2021.9	2037.1	2045.9	2035.0	2045.9	2052.4
12.5°	2002.3	2015.4	2015.4	2015.4	2008.9	2032.8	2048.0	2045.9	2024.1	2043.7	2008.9
15°	2000.1	1993.6	2013.2	2030.6	2019.7	2024.1	2030.6	2050.2	2008.9	2017.6	2017.6
17.5°	1998.0	2006.7	2013.2	2011.0	2048.0	2048.0	2041.5	2028.4	2061.1	2043.7	2019.7
20°	2006.7	2000.1	2017.6	2024.1	2050.2	2102.4	2082.9	2072.0	2054.6	2032.8	2032.8
22.5°	2017.6	2013.2	2037.1	2065.4	2115.5	2128.6	2126.4	2113.3	2082.9	2056.7	2052.4
25°	2056.7	2017.6	2043.7	2098.1	2115.5	2141.6	2159.0	2141.6	2100.3	2106.8	2067.6
27.5°	2115.5	2109.0	2143.8	2180.8	2165.6	2189.5	2174.3	2187.3	2189.5	2156.8	2117.7
30°	2185.1	2165.6	2187.3	2259.1	2265.7	2291.8	2265.7	2230.8	2241.7	2213.4	2193.8
32.5°	2285.3	2278.7	2320.1	2368.0	2376.7	2363.6	2350.6	2370.1	2324.4	2302.7	2267.8
35°	2350.6	2378.8	2428.9	2465.9	2494.2	2481.1	2487.7	2468.1	2479.0	2433.3	2418.0
37.5°	2544.3	2533.4	2544.3	2607.4	2613.9	2607.4	2613.9	2635.7	2620.4	2581.3	2542.1
40°	2727.1	2709.7	2735.8	2807.6	2803.3	2825.0	2781.5	2805.4	2805.4	2731.4	2716.2
42.5°	2864.2	2923.0	2953.4	3012.2	3034.0	3014.4	3005.7	3010.0	3057.9	2970.8	2938.2
45°	3147.1	3145.0	3236.4	3269.0	3208.1	3203.7	3186.3	3238.5	3271.2	3221.1	3208.1
47.5°	3454.0	3469.2	3521.5	3534.5	3571.5	3504.1	3504.1	3510.6	3625.9	3508.4	3447.5
50°	3730.4	3750.0	3854.5	3956.8	3887.1	3815.3	3843.6	3878.4	3941.5	3830.5	3778.3
52.5°	4065.6	4172.2	4241.9	4296.3	4346.3	4296.3	4231.0	4270.2	4394.2	4246.2	4180.9
55°	4548.8	4633.6	4698.9	4799.0	4840.4	4772.9	4766.4	4762.0	4831.7	4675.0	4585.8
57.5°	5088.5	5053.7	5158.2	5312.7	5462.9	5397.6	5378.0	5382.3	5399.7	5177.7	5110.3
60°	5758.9	5798.0	5922.1	6057.0	6215.9	6307.3	6178.9	6104.9	6120.1	5817.6	5713.1
62.5°	6141.9	6229.0	6509.7	6973.3	7293.2	7578.4	7597.9	7116.9	6794.8	6207.2	5763.2
65°	5956.9	5943.9	6472.7	7330.2	8542.5	9371.7	9247.7	8081.1	6955.9	6022.2	5425.9
67.5°	5066.7	5031.9	5671.8	7032.1	9034.4	10845.2	10703.7	8353.2	6411.8	5327.9	4653.2
70°	3264.7	3256.0	3950.2	5360.6	8065.9	9957.2	10009.4	7587.1	5219.1	3902.4	3234.2
72.5°	1186.2	1258.0	1660.6	2881.6	5478.1	7617.5	7650.2	5617.4	3001.3	1804.3	1329.8
75°	437.5	450.5	524.5	935.9	2496.4	4677.2	4799.0	2724.9	1066.5	587.6	478.8
77.5°	252.5	254.6	280.8	348.2	740.0	1826.0	1900.0	827.0	413.5	313.4	289.5
80°	171.9	169.8	198.1	226.3	296.0	518.0	550.6	346.1	261.2	217.6	182.8
82.5°	100.1	106.6	145.8	161.1	180.6	228.5	232.9	215.5	195.9	161.1	119.7
85°	60.9	50.1	80.5	89.2	104.5	102.3	102.3	117.5	126.2	113.2	67.5
87.5°	15.2	15.2	19.6	21.8	28.3	21.8	23.9	45.7	60.9	56.6	34.8
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°	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9
2.5°	2087.2	2080.7	2085.0	2109.0	2093.7	2048.0	2058.9	2082.9	2063.3	2052.4	2050.2
5°	2078.5	2091.6	2076.3	2080.7	2095.9	2058.9	2065.4	2095.9	2082.9	2087.2	2063.3
7.5°	2080.7	2087.2	2074.1	2054.6	2054.6	2085.0	2067.6	2072.0	2052.4	2085.0	2041.5
10°	2067.6	2050.2	2035.0	2045.9	2041.5	2032.8	2026.3	2039.3	2019.7	2048.0	2017.6
12.5°	2028.4	2032.8	2028.4	2024.1	2032.8	2054.6	2019.7	2024.1	1993.6	1998.0	2013.2
15°	2013.2	2026.3	2021.9	2045.9	2056.7	2024.1	2050.2	2024.1	2000.1	1987.1	2011.0
17.5°	2019.7	2039.3	2032.8	2050.2	2030.6	2054.6	2058.9	2048.0	2019.7	2008.9	2019.7
20°	2026.3	2019.7	2028.4	2058.9	2087.2	2063.3	2063.3	2056.7	2030.6	2015.4	2015.4
22.5°	2041.5	2030.6	2043.7	2067.6	2076.3	2113.3	2080.7	2065.4	2021.9	1982.7	2019.7
25°	2072.0	2078.5	2087.2	2078.5	2126.4	2122.0	2117.7	2106.8	2039.3	2041.5	2035.0
27.5°	2130.7	2093.7	2104.6	2156.8	2163.4	2180.8	2159.0	2178.6	2106.8	2109.0	2065.4
30°	2202.6	2163.4	2198.2	2243.9	2241.7	2274.4	2263.5	2267.8	2217.8	2189.5	2130.7
32.5°	2280.9	2276.6	2298.3	2326.6	2337.5	2354.9	2352.7	2352.7	2322.3	2248.3	2259.1
35°	2368.0	2398.4	2424.6	2455.0	2459.4	2481.1	2450.7	2455.0	2424.6	2370.1	2387.6
37.5°	2539.9	2537.7	2566.0	2603.0	2607.4	2590.0	2613.9	2603.0	2561.7	2524.7	2496.4
40°	2740.1	2696.6	2722.7	2809.8	2816.3	2785.8	2783.7	2781.5	2751.0	2670.5	2653.1
42.5°	2914.2	2970.8	2966.5	2994.8	2975.2	2960.0	3014.4	2983.9	2960.0	2875.1	2859.8
45°	3138.4	3155.8	3212.4	3303.8	3210.2	3210.2	3247.2	3223.3	3210.2	3147.1	3088.4
47.5°	3417.0	3432.2	3545.4	3551.9	3491.0	3449.7	3565.0	3569.4	3514.9	3467.1	3395.2
50°	3743.5	3750.0	3852.3	3956.8	3889.3	3810.9	3928.5	3974.2	3852.3	3787.0	3697.8
52.5°	4102.6	4083.0	4167.9	4363.8	4298.5	4274.5	4400.8	4411.6	4246.2	4143.9	4167.9
55°	4516.1	4490.0	4720.7	4853.5	4812.1	4768.6	4825.2	4851.3	4718.5	4550.9	4609.7
57.5°	5051.5	5064.6	5179.9	5310.5	5378.0	5388.9	5415.0	5388.9	5253.9	5084.2	5029.7
60°	5586.9	5626.1	5850.3	6096.2	6118.0	6309.5	6274.7	6144.1	5952.6	5711.0	5721.9
62.5°	5785.0	5752.3	6113.6	6714.3	7225.8	7576.2	7421.7	6958.1	6514.1	6074.4	6107.1
65°	5386.7	5467.2	5959.1	6899.3	8009.3	9395.7	8573.0	7291.1	6394.4	5826.3	5763.2
67.5°	4642.3	4703.3	5327.9	6320.4	8290.0	10514.4	9008.3	6821.0	5639.1	4903.5	4942.7
70°	3234.2	3264.7	3876.2	5177.7	7517.4	9922.4	8126.8	5238.7	3893.6	3103.6	3147.1
72.5°	1301.5	1375.5	1778.1	3118.8	5549.9	7539.2	5471.6	2748.8	1614.9	1201.4	1090.4
75°	481.0	483.2	568.1	1073.0	2635.7	4738.1	2468.1	883.6	515.8	422.2	402.6
77.5°	278.6	276.4	296.0	387.4	763.9	1850.0	700.8	346.1	280.8	252.5	241.6
80°	174.1	171.9	202.4	256.8	335.2	507.1	296.0	215.5	189.4	163.2	163.2
82.5°	111.0	113.2	158.9	189.4	204.6	224.2	171.9	152.4	141.5	93.6	91.4
85°	71.8	65.3	111.0	126.2	113.2	100.1	95.8	80.5	74.0	45.7	50.1
87.5°	32.6	34.8	56.6	63.1	41.4	23.9	23.9	17.4	17.4	10.9	10.9
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)