

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: P476620

Luminaire Tested: **IFLD-M-SA4E-740-U-T2**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476620  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-740-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

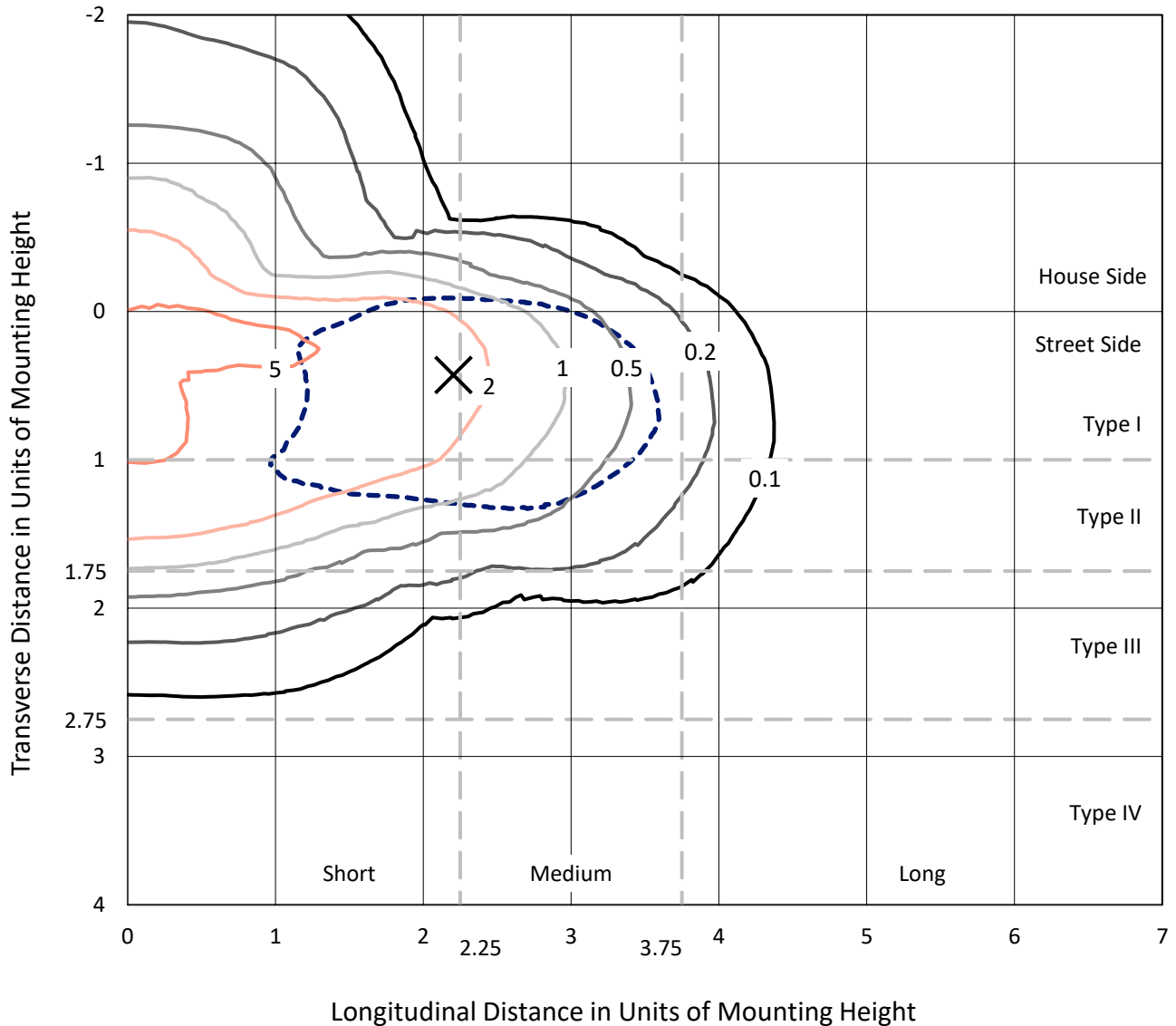
Lumens per Lamp: N/A  
Luminaire Lumens: 36160.9 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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

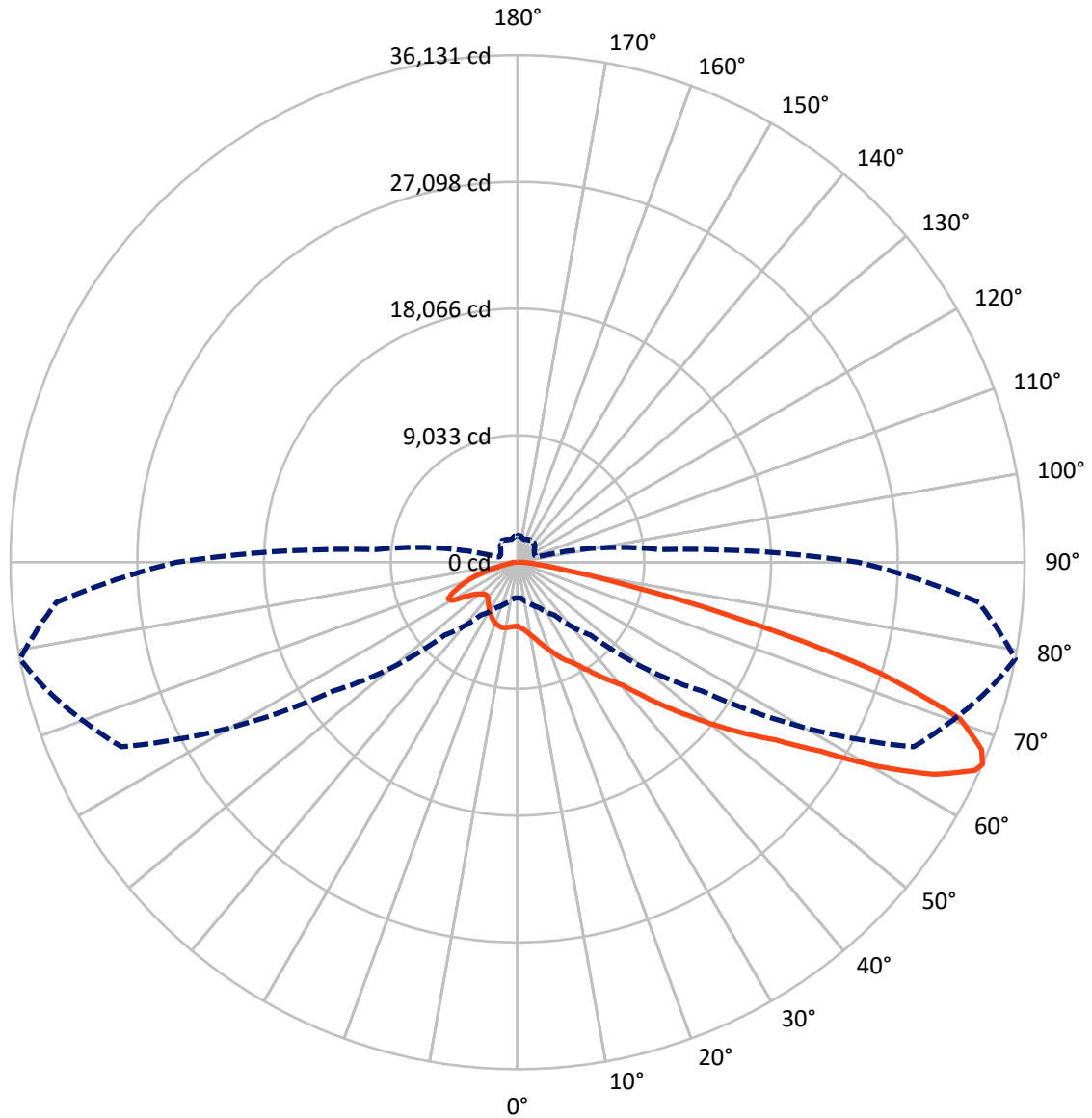
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7302.2	0.0	7302.2
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	28858.7	0.0	28858.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	36160.9	0.0	36160.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.0	1.2
10°-20°	1386.4	3.8
20°-30°	2379.9	6.6
30°-40°	3676.4	10.2
40°-50°	5888.7	16.3
50°-60°	8792.3	24.3
60°-70°	9034.0	25.0
70°-80°	4004.7	11.1
80°-90°	549.5	1.5
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°	36160.9	100.0
0°-180°	36160.9	100.0

**Coefficient of Utilization**



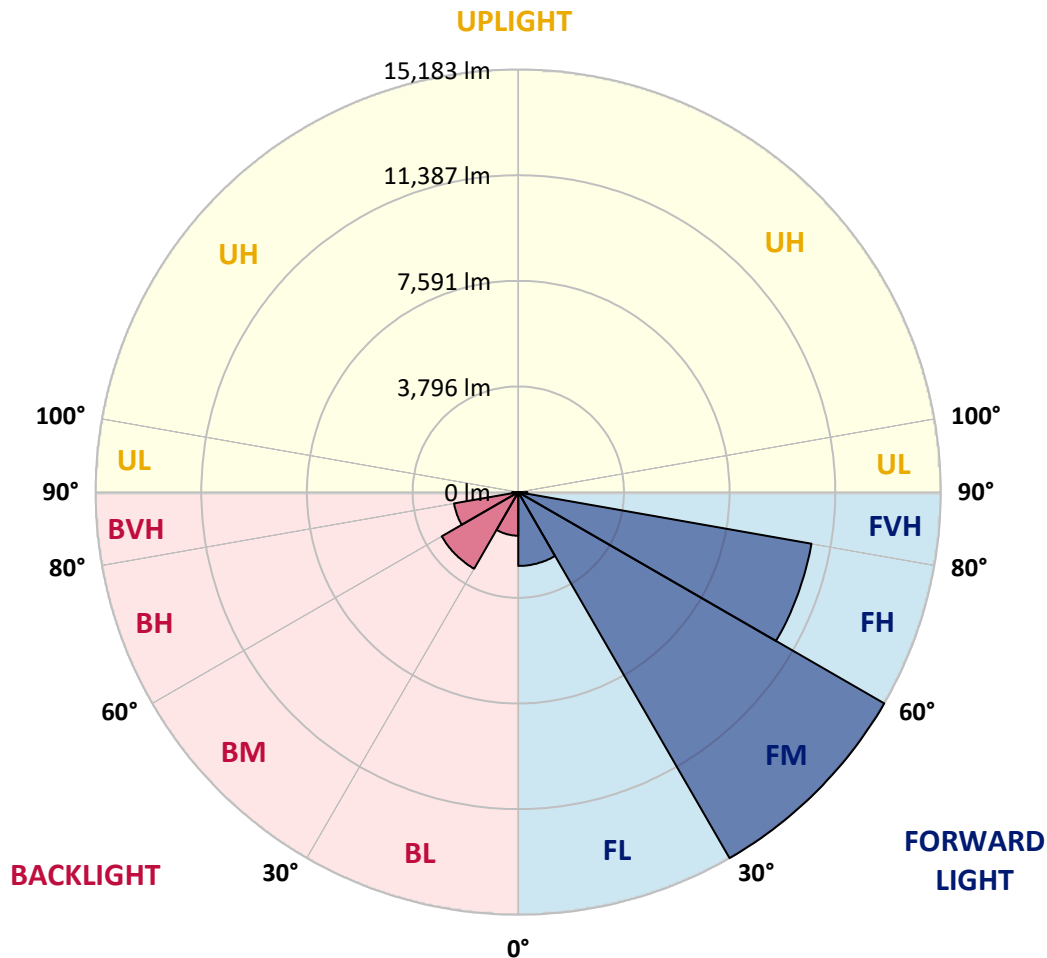
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2650.8	7.3			
FM (30°-60°)	15182.7	42.0			
FH (60°-80°)	10695.6	29.6			G4/12000
FVH (80°-90°)	329.6	0.9			G3/500
BL (0°-30°)	1564.5	4.3	B3/2500		
BM (30°-60°)	3174.7	8.8	B3/5000		
BH (60°-80°)	2343.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	219.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1
2.5°	4856.5	4860.4	4860.4	4844.5	4848.5	4860.4	4816.7	4721.2	4721.2	4705.3	4677.5
5°	5154.8	5134.9	5107.1	5111.0	5095.1	5095.1	5047.4	4955.9	4876.4	4844.5	4761.0
7.5°	5194.6	5214.4	5210.5	5258.2	5282.1	5282.1	5305.9	5230.4	5111.0	5035.5	4951.9
10°	5274.1	5222.4	5218.4	5329.8	5365.6	5449.1	5544.6	5504.8	5405.4	5298.0	5186.6
12.5°	5321.8	5353.7	5353.7	5409.3	5492.9	5616.2	5783.2	5858.8	5703.7	5592.3	5421.3
15°	5393.4	5349.7	5477.0	5524.7	5683.8	5771.3	6009.9	6204.8	6101.4	5966.2	5695.7
17.5°	5425.2	5397.4	5469.0	5556.5	5827.0	5958.2	6248.6	6519.0	6431.5	6344.0	6065.6
20°	5588.3	5584.3	5616.2	5687.8	5882.7	6141.2	6503.1	6877.0	6908.8	6749.7	6371.9
22.5°	5986.1	5934.4	5934.4	5906.5	5990.0	6256.5	6745.8	7262.8	7406.0	7219.1	6717.9
25°	6352.0	6423.6	6379.8	6252.6	6220.7	6360.0	6920.8	7672.5	7863.4	7688.4	7187.3
27.5°	6821.3	6845.2	6920.8	6749.7	6531.0	6574.7	7111.7	7903.2	8297.0	8062.3	7453.8
30°	7497.5	7453.8	7437.8	7246.9	6960.5	6900.9	7330.4	8241.3	8865.7	8535.6	7768.0
32.5°	7954.9	8062.3	8058.3	7795.8	7449.8	7318.5	7600.9	8559.5	9474.3	9168.0	8348.7
35°	8861.8	8973.1	8885.6	8499.8	8094.1	7831.6	7990.7	8973.1	10170.4	9931.7	8841.9
37.5°	10019.2	10281.7	10094.8	9382.8	8810.1	8523.7	8531.6	9422.6	10882.3	10687.4	9370.9
40°	10818.7	11172.7	10914.1	10245.9	9637.4	9366.9	9259.5	9955.6	11733.5	11526.7	10198.2
42.5°	11809.1	12103.4	11968.2	11307.9	10595.9	10365.2	10150.5	10846.5	13034.1	12938.7	11260.2
45°	12890.9	13030.1	12986.4	12568.8	11777.2	11697.7	11224.4	12019.9	14565.4	14605.2	12588.6
47.5°	13897.2	13972.8	14056.3	13754.0	13260.8	13328.5	12461.4	13276.7	16053.0	16315.5	14068.3
50°	14155.8	14414.3	14609.2	14812.0	14919.4	15376.8	13825.6	14820.0	17763.3	18272.4	15714.9
52.5°	13893.2	13873.4	14466.0	15102.4	16176.3	17134.9	15683.1	16737.1	19274.7	20281.0	17222.4
55°	12700.0	12660.2	13614.8	14458.0	16554.2	18113.3	18336.1	19290.7	21100.4	22409.0	19262.8
57.5°	10611.8	10365.2	11407.3	12791.5	15734.8	18220.7	21001.0	23081.2	23908.5	25400.0	22377.2
60°	7131.6	7028.2	8026.5	9677.1	12775.6	16697.4	22595.9	27826.3	27866.0	29544.5	27209.8
62.5°	4391.1	4411.0	5051.4	6288.4	8945.3	13237.0	21907.8	31616.8	31624.7	33307.2	31187.2
65°	2871.7	2883.7	3400.7	4084.8	5588.3	8977.1	18117.3	31915.1	34237.9	35801.1	33008.9
66°	2557.5	2561.5	3007.0	3563.8	4629.8	7346.4	16001.3	31139.5	34826.6	36131.2	32985.0
67.5°	2155.8	2207.5	2565.5	2995.0	3611.5	5278.1	12696.0	28896.2	34524.3	35669.8	32237.3
70°	1686.4	1714.3	1996.7	2434.2	2708.6	3054.7	7545.2	23554.5	31600.9	33458.3	29516.7
72.5°	1352.3	1376.2	1591.0	1976.8	2199.5	2012.6	4108.7	17091.1	24962.5	26943.3	23216.4
75°	1141.5	1145.5	1248.9	1555.2	1809.7	1511.4	2187.6	10969.8	16017.2	16940.0	14223.4
77.5°	922.8	938.7	1010.3	1185.3	1455.7	1189.3	1304.6	6145.2	8042.4	8110.0	6574.7
80°	751.7	759.7	803.4	863.1	1109.7	879.0	883.0	2999.0	3448.5	3368.9	2672.8
82.5°	592.6	600.6	652.3	640.4	815.4	628.4	548.9	1443.8	1587.0	1555.2	1229.0
85°	334.1	334.1	513.1	513.1	517.1	397.7	334.1	680.1	839.2	783.6	576.7
87.5°	107.4	111.4	155.1	163.1	258.5	179.0	163.1	254.6	397.7	350.0	206.8
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°	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1	4566.1
2.5°	4661.6	4597.9	4570.1	4478.6	4454.7	4395.1	4367.2	4331.4	4319.5	4267.8	4315.5
5°	4697.4	4677.5	4566.1	4450.8	4363.3	4323.5	4263.8	4184.3	4176.3	4104.7	4096.8
7.5°	4848.5	4780.9	4586.0	4462.7	4287.7	4188.3	4057.0	4017.2	3965.5	3941.7	3993.4
10°	5083.2	4912.2	4621.8	4311.6	4096.8	3977.5	3882.0	3854.2	3858.1	3842.2	3818.4
12.5°	5250.2	5087.2	4562.1	4184.3	3905.9	3790.5	3782.6	3810.4	3854.2	3834.3	3862.1
15°	5488.9	5182.6	4518.4	3973.5	3750.7	3718.9	3714.9	3798.5	3794.5	3794.5	3790.5
17.5°	5711.6	5278.1	4359.3	3790.5	3587.7	3611.5	3639.4	3635.4	3675.2	3691.1	3718.9
20°	5994.0	5389.5	4136.6	3607.6	3464.4	3456.4	3452.4	3456.4	3496.2	3520.0	3500.2
22.5°	6240.6	5413.3	3949.6	3432.5	3317.2	3285.4	3233.7	3285.4	3265.5	3273.4	3297.3
25°	6455.4	5417.3	3683.1	3301.3	3170.0	3098.4	3058.7	3054.7	3018.9	3014.9	3014.9
27.5°	6634.4	5282.1	3448.5	3118.3	2995.0	2927.4	2923.4	2879.7	2788.2	2728.5	2736.5
30°	6773.6	5178.6	3285.4	2959.2	2839.9	2828.0	2792.2	2692.7	2573.4	2497.8	2497.8
32.5°	7020.2	4971.8	3062.6	2796.2	2736.5	2720.6	2637.1	2549.5	2438.2	2366.6	2354.7
35°	7203.2	4780.9	2915.5	2656.9	2629.1	2597.3	2525.7	2430.2	2398.4	2382.5	2394.4
37.5°	7410.0	4566.1	2736.5	2537.6	2565.5	2505.8	2422.3	2378.5	2489.9	2462.0	2474.0
40°	7740.1	4415.0	2561.5	2466.0	2493.9	2426.2	2318.9	2302.9	2442.2	2342.7	2318.9
42.5°	8344.7	4411.0	2454.1	2358.6	2378.5	2326.8	2231.4	2223.4	2279.1	2159.8	2124.0
45°	9096.4	4550.2	2374.5	2279.1	2263.2	2255.2	2223.4	2187.6	2139.9	1984.7	1945.0
47.5°	9995.3	4776.9	2358.6	2159.8	2179.6	2247.3	2207.5	2116.0	1992.7	1893.3	1873.4
50°	11085.2	5246.3	2318.9	2072.3	2108.1	2215.4	2183.6	2056.3	1945.0	1881.3	1869.4
52.5°	12290.3	5838.9	2267.1	1937.0	2016.6	2187.6	2203.5	2084.2	1921.1	1865.4	1857.5
55°	13710.3	6713.9	2207.5	1789.9	1909.2	2159.8	2203.5	2004.6	1889.3	1889.3	1881.3
57.5°	16514.4	8289.0	2084.2	1654.6	1813.7	2108.1	2139.9	2008.6	1893.3	1893.3	1877.4
60°	20627.1	10747.1	1849.5	1551.2	1722.2	2036.5	2092.1	1949.0	1849.5	1873.4	1869.4
62.5°	23844.8	11494.8	1650.6	1451.8	1630.8	1905.2	2028.5	1885.3	1797.8	1885.3	1893.3
65°	24532.9	10739.1	1447.8	1344.4	1503.5	1777.9	1937.0	1793.8	1722.2	1893.3	1901.2
66°	24286.3	10150.5	1376.2	1312.6	1447.8	1714.3	1881.3	1762.0	1682.5	1885.3	1889.3
67.5°	23188.6	9267.5	1296.7	1244.9	1372.2	1622.8	1817.7	1718.3	1618.8	1861.4	1825.7
70°	20802.1	7859.5	1161.4	1125.6	1264.8	1471.7	1670.5	1606.9	1519.4	1714.3	1650.6
72.5°	16021.2	6280.4	1018.2	1022.2	1141.5	1316.5	1523.4	1479.6	1404.0	1503.5	1463.7
75°	9756.7	4013.3	887.0	894.9	994.4	1169.4	1384.2	1352.3	1260.9	1316.5	1296.7
77.5°	4323.5	1988.7	747.8	763.7	843.2	1030.2	1205.2	1153.5	1058.0	1069.9	1062.0
80°	1678.5	942.7	608.6	628.4	680.1	823.3	998.3	950.6	867.1	851.2	843.2
82.5°	807.4	525.0	469.3	477.3	497.2	656.3	859.1	799.5	688.1	616.5	616.5
85°	405.7	326.2	330.1	302.3	330.1	445.5	580.7	485.2	401.7	358.0	365.9
87.5°	163.1	163.1	163.1	139.2	147.2	210.8	270.5	183.0	167.1	99.4	99.4
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)