

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: P478500

Luminaire Tested: **IFLD-L-SA8C-730-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478500  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

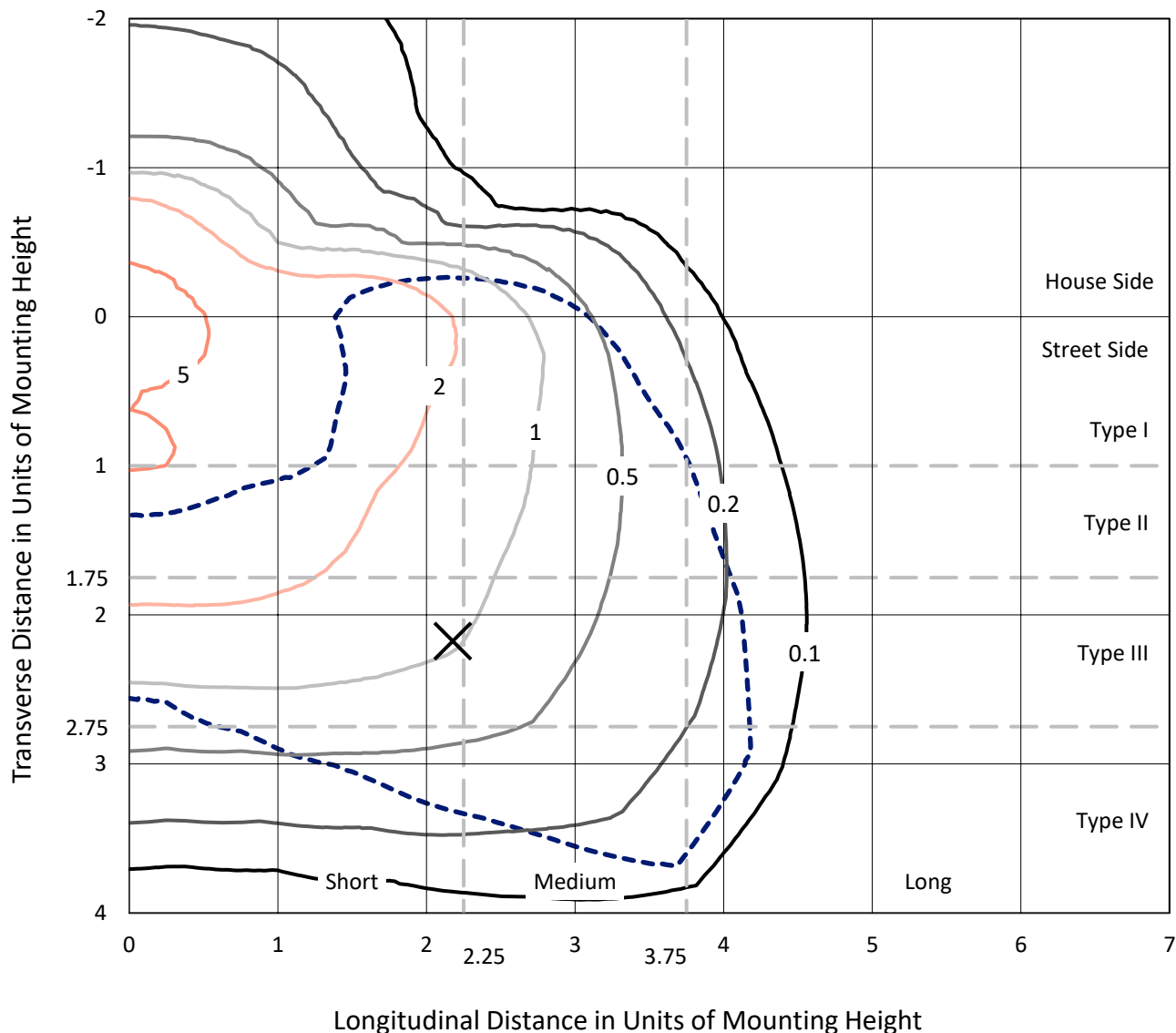
Lumens per Lamp: N/A  
Luminaire Lumens: 46631.9 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3  
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

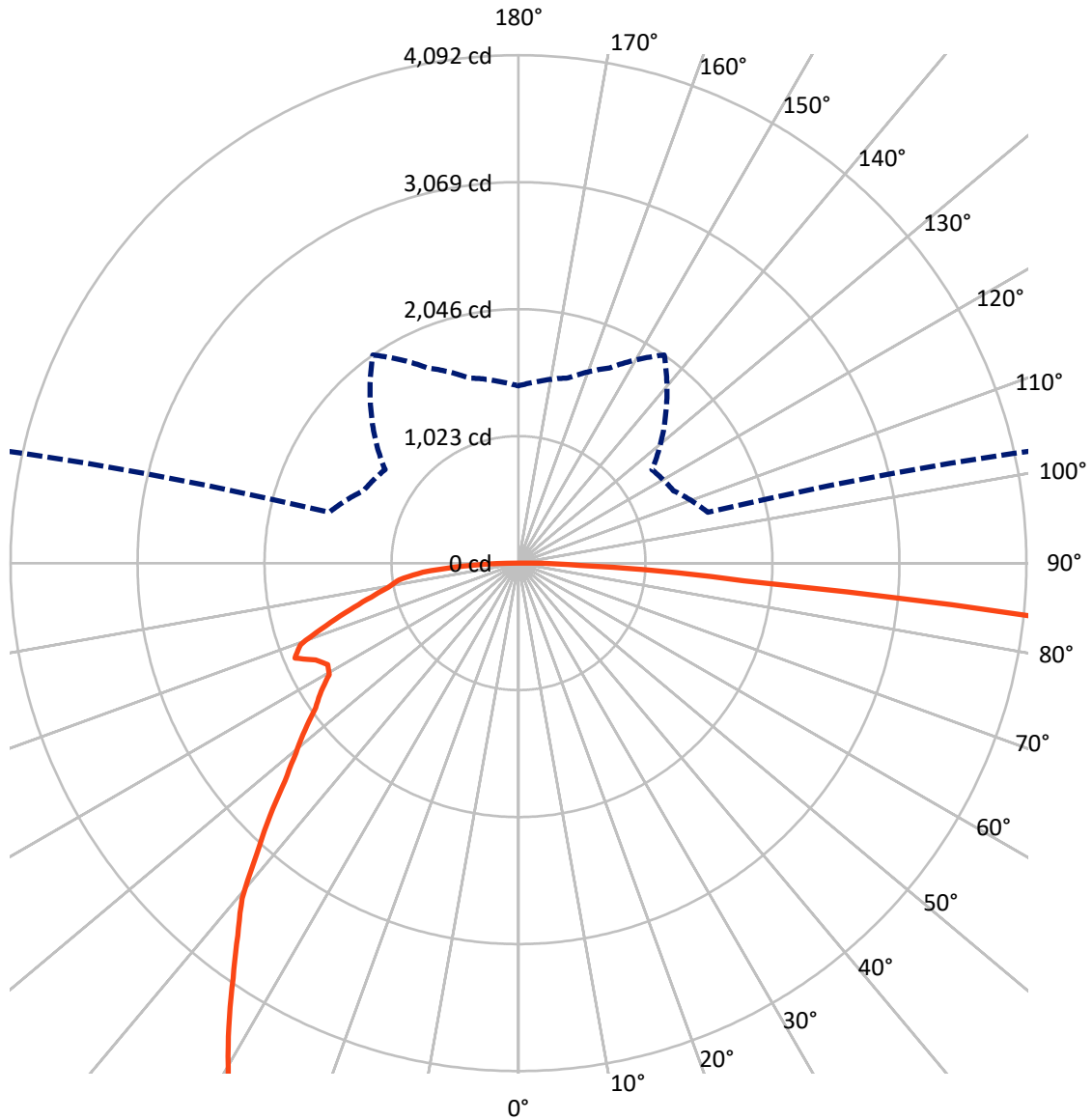
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10380.5	0.0	10380.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	36251.4	0.0	36251.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	46631.9	0.0	46631.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.4	1.1
10°-20°	1634.9	3.5
20°-30°	2760.9	5.9
30°-40°	3820.7	8.2
40°-50°	5465.1	11.7
50°-60°	8814.6	18.9
60°-70°	13000.3	27.9
70°-80°	9440.5	20.2
80°-90°	1203.4	2.6
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°	46631.9	100.0
0°-180°	46631.9	100.0

**Coefficient of Utilization**

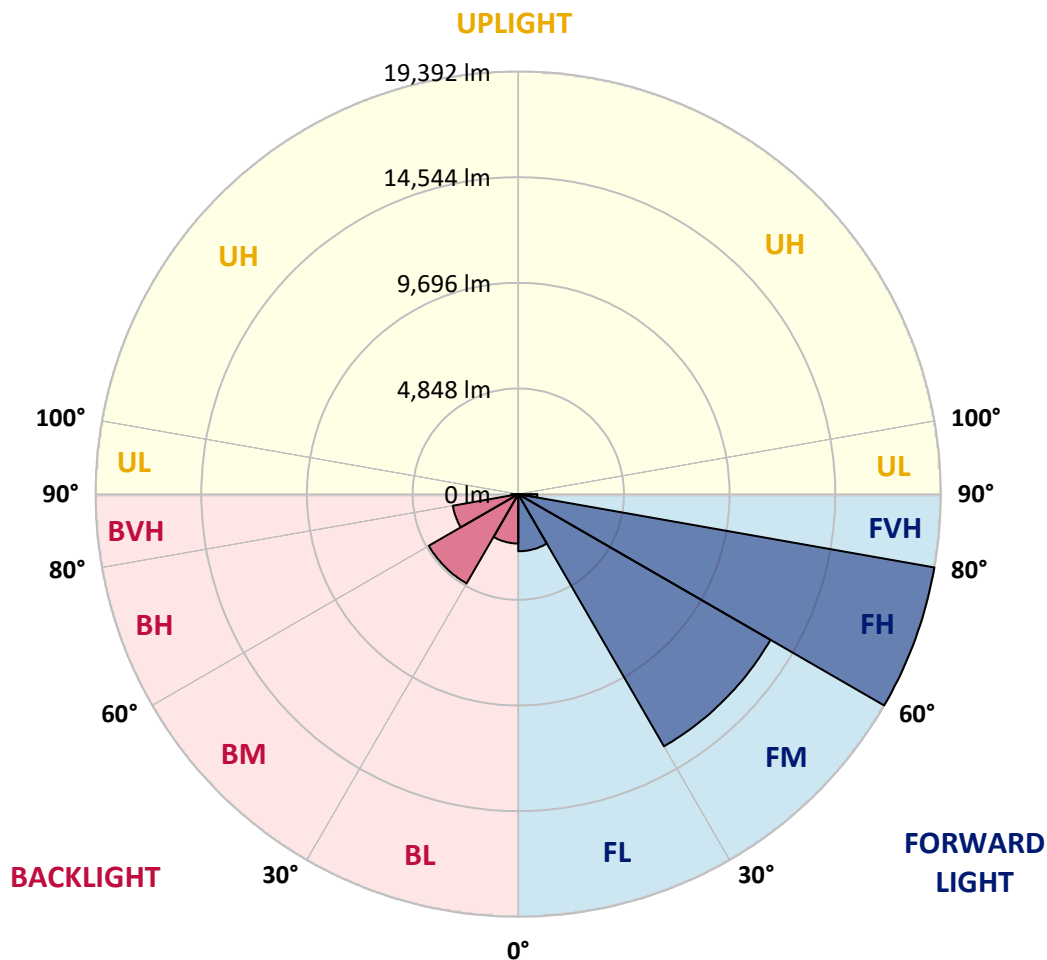


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2620.7	5.6			
FM (30°-60°)	13363.1	28.7			
FH (60°-80°)	19391.6	41.6			G5
FVH (80°-90°)	875.9	1.9			G5
BL (0°-30°)	2266.5	4.9	B3/2500		
BM (30°-60°)	4737.4	10.2	B3/5000		
BH (60°-80°)	3049.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	327.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2
2.5°	5058.7	5088.9	5058.7	5053.7	5003.4	4968.2	4998.4	4953.1	4902.8	4882.7	4837.4
5°	5521.3	5526.4	5471.0	5476.1	5370.5	5259.8	5280.0	5144.2	4998.4	4943.0	4852.5
7.5°	5994.0	5938.7	5858.2	5833.1	5667.2	5546.5	5531.4	5410.7	5184.4	5058.7	4933.0
10°	6300.7	6320.9	6190.1	6079.5	5938.7	5792.9	5787.8	5561.6	5430.8	5244.8	5083.8
12.5°	6572.3	6577.3	6466.7	6290.7	6114.7	5933.7	5958.8	5858.2	5637.0	5461.0	5300.1
15°	6783.5	6753.3	6632.6	6471.7	6285.7	6144.9	6129.8	6044.3	5858.2	5712.4	5445.9
17.5°	6843.8	6828.7	6708.1	6537.1	6356.1	6250.5	6290.7	6149.9	6074.5	5943.7	5687.3
20°	6728.2	6693.0	6672.9	6481.8	6351.0	6341.0	6305.8	6335.9	6210.2	6089.5	5903.5
22.5°	6517.0	6501.9	6491.8	6341.0	6280.6	6325.9	6386.2	6431.5	6411.4	6295.7	6084.5
25°	6300.7	6371.1	6305.8	6235.4	6320.9	6436.5	6421.4	6567.3	6567.3	6532.1	6356.1
27.5°	6451.6	6406.3	6356.1	6320.9	6351.0	6532.1	6522.0	6698.0	6763.4	6698.0	6496.9
30°	6828.7	6783.5	6637.7	6481.8	6441.5	6637.7	6687.9	6843.8	6874.0	6713.1	6542.1
32.5°	7537.8	7512.6	7281.3	6823.7	6577.3	6687.9	6713.1	6889.1	6863.9	6763.4	6693.0
35°	8588.7	8503.2	8181.4	7407.0	6863.9	6753.3	6687.9	6828.7	6924.3	6874.0	6808.6
37.5°	9740.3	9644.7	9247.5	8266.9	7381.9	6929.3	6879.0	6994.7	7105.3	7080.2	6944.4
40°	10841.5	10841.5	10484.5	9343.0	8151.2	7356.7	7366.8	7236.1	7336.6	7291.4	7316.5
42.5°	11927.7	11887.4	11741.6	10605.2	8975.9	8070.8	7909.9	7583.0	7764.0	7749.0	7784.2
45°	13028.9	12998.7	12958.5	11781.8	10157.6	9036.3	8950.8	8362.4	8528.4	8458.0	8608.8
47.5°	13908.9	13944.1	13944.1	13094.3	11419.8	10323.6	10197.9	9267.6	9584.4	9619.6	9654.8
50°	14658.2	14673.2	14658.2	14346.4	12827.8	11796.9	11540.5	10595.1	10911.9	11188.5	11510.3
52.5°	15694.0	15714.2	15643.8	15523.1	14738.6	13345.7	13059.1	12008.1	12656.8	12948.5	13526.7
55°	16971.3	16820.4	16689.7	16780.2	16574.0	15050.4	14753.7	13466.4	14441.9	14829.1	15985.7
57.5°	17207.6	17338.4	17670.3	18389.3	18686.0	16709.8	16538.8	15256.6	16458.4	16795.3	18726.2
60°	18042.4	17826.1	18640.8	20199.6	20531.5	18872.1	18696.1	17217.7	18464.8	18816.8	21255.6
62.5°	18590.5	18580.4	19787.3	21637.8	22392.0	21114.8	20757.8	19767.1	20632.1	20974.0	24011.2
65°	18429.6	18575.4	20717.5	22482.6	23945.9	23664.3	23458.1	21959.6	23101.1	23070.9	25806.4
67.5°	16961.2	17373.6	20129.2	23091.0	26259.0	26771.9	26706.5	25042.1	25107.4	24468.8	26605.9
70°	14924.7	14783.9	17640.1	22457.4	27415.5	30457.8	30442.7	27335.1	26912.7	24775.6	24312.9
72°	11465.0	11309.2	13657.5	19284.4	26807.1	31931.2	32383.7	28924.1	26892.6	23503.3	20083.9
72.5°	10409.1	10273.3	12611.6	18153.0	26133.3	32313.3	32102.1	28984.4	26681.4	22904.9	18761.4
75°	4792.2	4636.3	6300.7	11113.0	20385.7	28632.4	29351.5	27123.9	23302.2	18233.4	11238.8
77.5°	1428.1	1382.8	2026.5	4485.4	11847.2	21094.7	21371.2	20466.1	16267.3	9986.7	4168.7
80°	794.5	799.5	1045.9	1679.5	5209.6	12194.2	13189.8	12641.7	7980.3	3298.7	1387.9
82.5°	442.5	467.7	653.7	995.6	2393.6	5596.8	6024.2	5808.0	2886.4	1548.8	759.3
85°	231.3	241.4	341.9	533.0	1357.7	1770.0	1820.3	1951.1	1498.5	1056.0	407.3
87.5°	90.5	90.5	125.7	221.3	502.9	548.1	492.8	598.4	859.9	683.9	201.1
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°	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2	4802.2
2.5°	4877.7	4837.4	4832.4	4767.0	4787.2	4731.8	4736.9	4726.8	4731.8	4721.8	4696.6
5°	4852.5	4822.4	4736.9	4792.2	4741.9	4812.3	4867.6	4847.5	4862.6	4857.6	4862.6
7.5°	4887.7	4847.5	4837.4	4807.3	4852.5	4882.7	4928.0	5053.7	5043.6	5058.7	5088.9
10°	4993.3	4948.1	4917.9	4963.2	4938.0	5033.6	5083.8	5149.2	5264.9	5269.9	5209.6
12.5°	5199.5	5169.3	5109.0	5119.0	5204.5	5234.7	5264.9	5305.1	5380.5	5365.4	5420.8
15°	5435.8	5370.5	5335.3	5325.2	5345.3	5380.5	5375.5	5415.7	5456.0	5491.2	5476.1
17.5°	5606.8	5521.3	5531.4	5581.7	5576.6	5566.6	5501.2	5481.1	5501.2	5521.3	5511.3
20°	5782.8	5792.9	5717.4	5672.2	5652.1	5551.5	5501.2	5440.9	5380.5	5410.7	5456.0
22.5°	6004.1	5958.8	5848.2	5712.4	5611.8	5551.5	5395.6	5290.0	5290.0	5320.2	5305.1
25°	6255.5	6159.9	5968.9	5722.5	5596.8	5340.3	5229.7	5214.6	5174.4	5219.6	5239.7
27.5°	6451.6	6366.1	6104.6	5687.3	5340.3	5134.1	5068.8	5048.6	5114.0	5119.0	5199.5
30°	6532.1	6506.9	6124.7	5596.8	5078.8	4746.9	4706.7	4797.2	4867.6	4973.2	4978.2
32.5°	6637.7	6647.7	6154.9	5385.6	4736.9	4405.0	4344.6	4455.3	4656.4	4741.9	4807.3
35°	6813.7	6863.9	6129.8	5124.1	4374.8	4058.0	4048.0	4078.1	4274.2	4425.1	4510.6
37.5°	7120.4	7110.3	6124.7	4812.3	4088.2	3756.3	3675.9	3685.9	3816.7	3942.4	3927.3
40°	7532.7	7492.5	6109.7	4405.0	3716.1	3499.9	3364.1	3313.8	3303.7	3268.5	3278.6
42.5°	8095.9	8015.5	6104.6	3992.7	3379.2	3147.9	3052.3	2921.6	2826.0	2645.0	2655.1
45°	8880.4	8739.6	5973.9	3605.5	3047.3	2856.2	2710.4	2614.8	2408.7	2182.4	2182.4
47.5°	10092.3	9634.7	5978.9	3178.0	2725.5	2569.6	2469.0	2303.1	2081.8	1900.8	1880.7
50°	11877.4	10831.5	5808.0	2841.1	2464.0	2358.4	2252.8	2061.7	1850.5	1724.8	1739.9
52.5°	14180.5	12616.6	5802.9	2539.4	2257.8	2182.4	2066.7	1895.8	1739.9	1659.4	1629.2
55°	16926.0	14980.0	5983.9	2293.0	2046.6	2006.4	1956.1	1815.3	1664.4	1594.0	1589.0
57.5°	19737.0	17288.1	6275.6	2117.0	1865.6	1895.8	1860.6	1749.9	1629.2	1548.8	1538.7
60°	22236.2	19118.5	5687.3	1905.8	1704.7	1770.0	1820.3	1724.8	1659.4	1654.4	1619.2
62.5°	24121.9	19902.9	4324.5	1744.9	1619.2	1739.9	1875.6	1936.0	1905.8	1946.0	1951.1
65°	24810.8	19430.2	2976.9	1659.4	1553.8	1810.3	2112.0	2091.9	1915.9	1840.4	1880.7
67.5°	23845.3	17514.4	2207.5	1558.8	1508.6	1956.1	2247.8	1996.3	1729.8	1719.8	1689.6
70°	20506.3	14844.2	1800.2	1453.2	1433.1	1875.6	2187.4	1850.5	1629.2	1563.9	1533.7
72°	16337.7	11560.6	1579.0	1377.8	1312.4	1674.5	2046.6	1734.8	1543.8	1463.3	1428.1
72.5°	14914.6	10715.8	1548.8	1342.6	1287.3	1629.2	1976.2	1699.6	1523.6	1453.2	1397.9
75°	8181.4	5486.1	1362.7	1232.0	1086.2	1408.0	1830.4	1594.0	1438.2	1337.6	1327.5
77.5°	3042.3	2127.1	1176.7	1091.2	940.3	1216.9	1664.4	1513.6	1307.4	1181.7	1156.6
80°	1166.6	1121.4	960.4	920.2	789.5	1066.0	1533.7	1357.7	1111.3	985.6	945.4
82.5°	709.0	653.7	729.1	719.1	603.4	970.5	1443.2	1272.2	985.6	799.5	774.4
85°	387.2	387.2	507.9	487.8	422.4	774.4	1091.2	844.8	623.5	512.9	523.0
87.5°	171.0	201.1	271.5	256.5	231.3	437.5	533.0	447.5	311.8	211.2	226.3
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)