

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: P478964

Luminaire Tested: **IFLD-L-SA7D-740-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478964  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

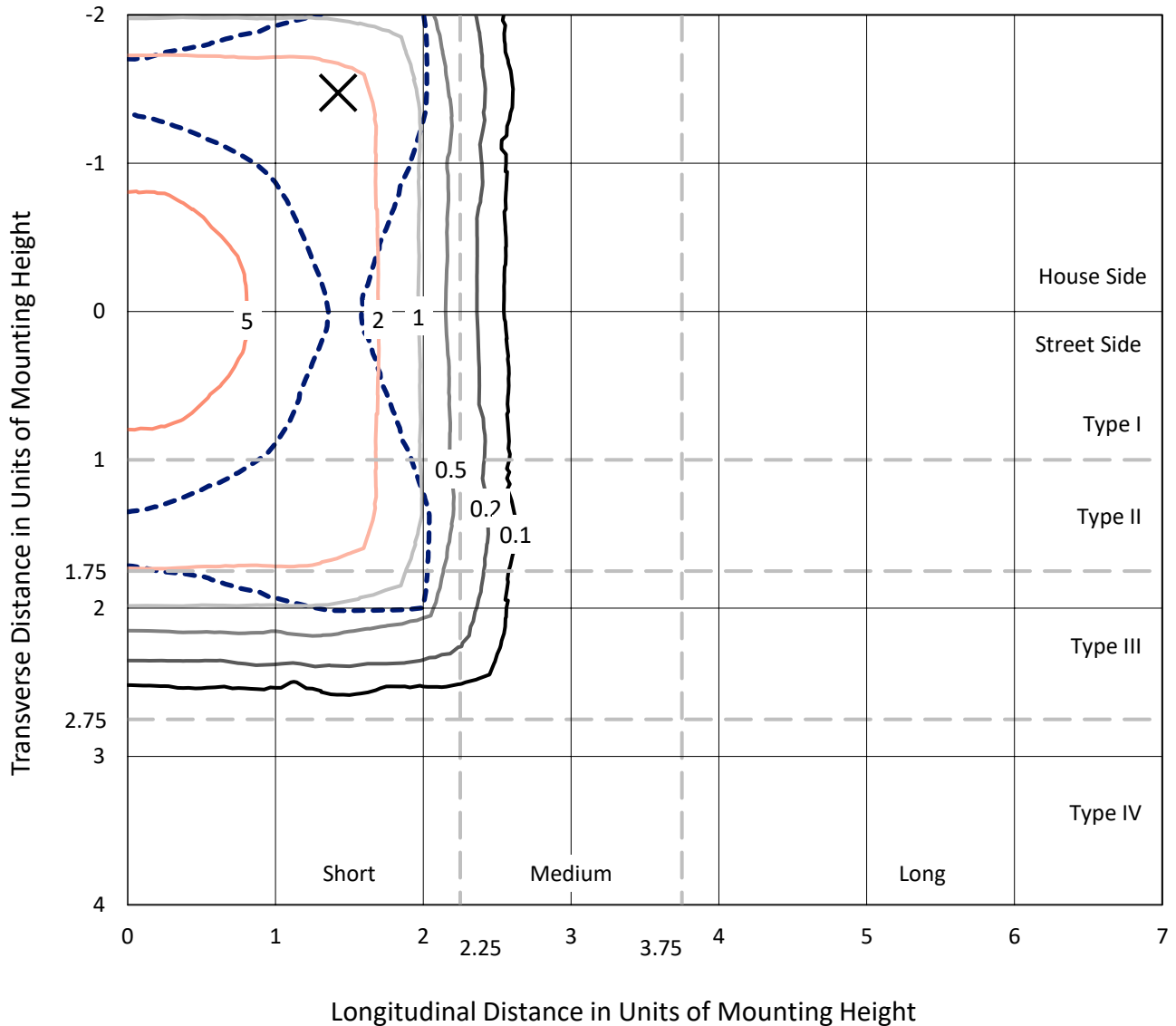
Lumens per Lamp: N/A  
Luminaire Lumens: 48650.9 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 422.6  
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

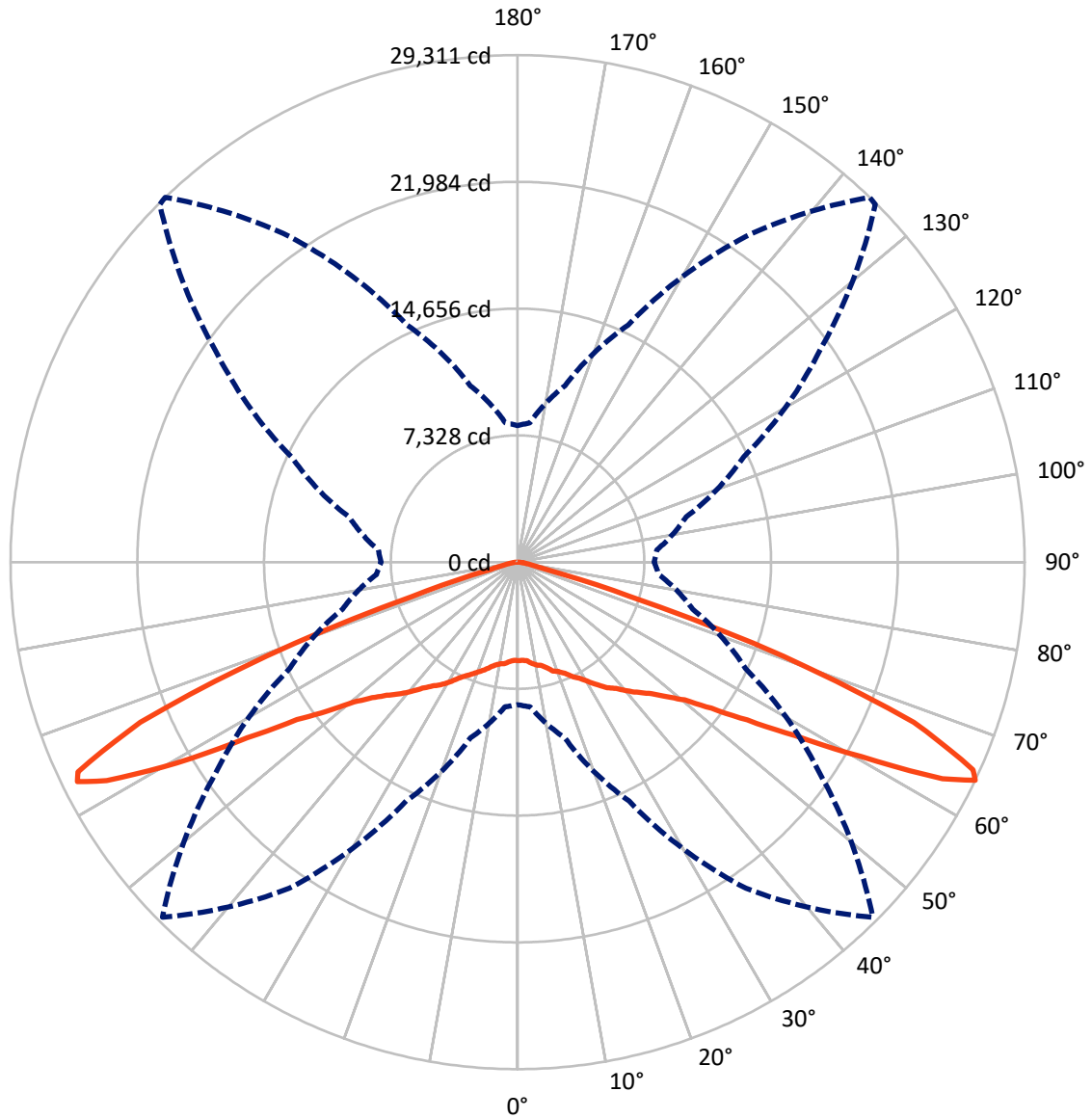
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24348.7	0.0	24348.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24302.3	0.0	24302.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48650.9	0.0	48650.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.7	1.2
10°-20°	1803.8	3.7
20°-30°	3390.2	7.0
30°-40°	5591.0	11.5
40°-50°	8743.9	18.0
50°-60°	14128.0	29.0
60°-70°	12721.3	26.1
70°-80°	1506.9	3.1
80°-90°	206.3	0.4
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°	48650.9	100.0
0°-180°	48650.9	100.0

**Coefficient of Utilization**



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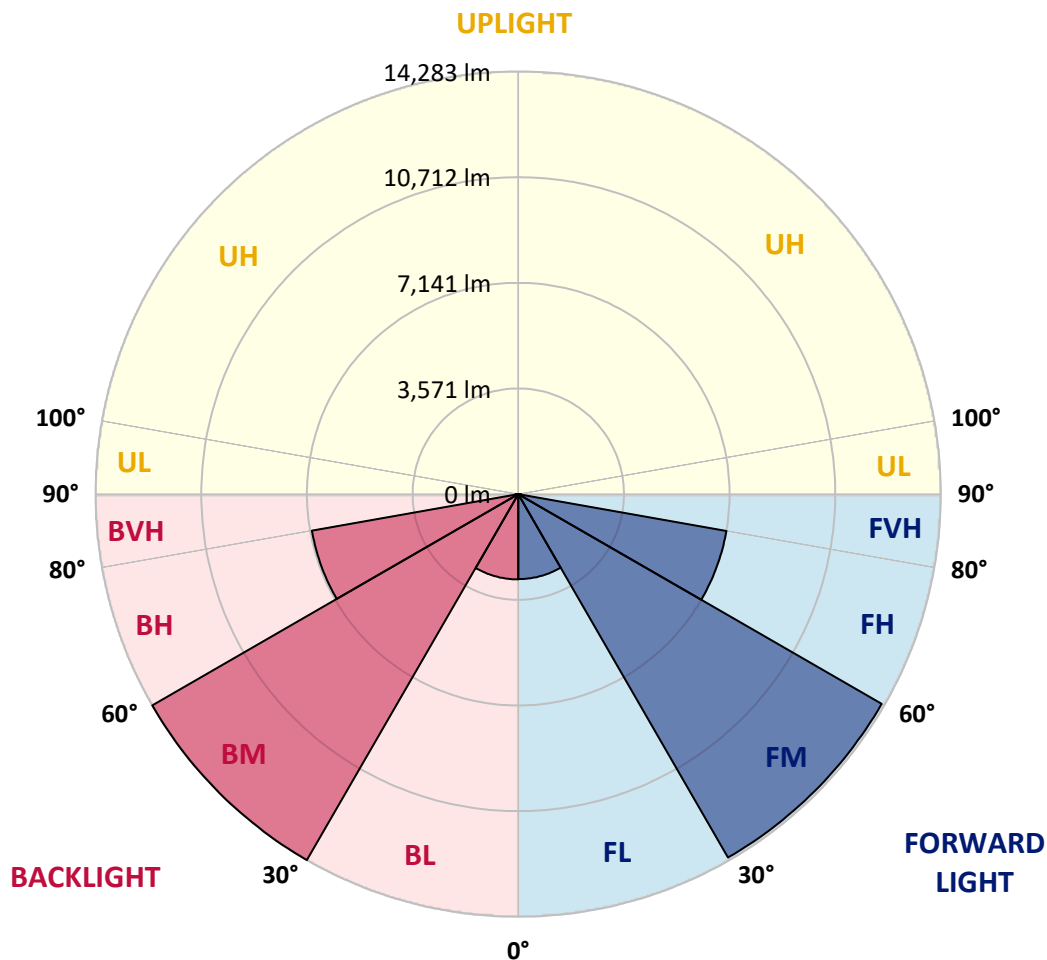
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.3	5.9			
FM (30°-60°)	14180.2	29.1			
FH (60°-80°)	7144.9	14.7			G3/7500
FVH (80°-90°)	105.8	0.2			G2/225
BL (0°-30°)	2882.4	5.9	B4/5000		
BM (30°-60°)	14282.6	29.4	B5		
BH (60°-80°)	7083.3	14.6	B5		G3/7500
BVH (80°-90°)	100.4	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0
2.5°	5629.1	5640.2	5740.7	5701.6	5735.1	5673.7	5718.3	5813.2	5701.6	5785.3	5813.2
5°	5690.4	5707.2	5707.2	5746.2	5768.6	5757.4	5785.3	5746.2	5852.2	5807.6	5874.5
7.5°	5913.6	5885.7	5841.1	5874.5	5880.1	5908.0	5935.9	5986.1	5969.4	5930.3	5997.3
10°	5952.7	5930.3	5997.3	6002.9	5975.0	5952.7	5980.5	5980.5	6030.8	6041.9	6041.9
12.5°	6019.6	6041.9	6036.3	6081.0	6086.5	6069.8	6114.4	6198.1	6175.8	6192.5	6153.5
15°	6276.2	6248.3	6242.8	6287.4	6359.9	6253.9	6332.0	6326.4	6304.1	6337.6	6248.3
17.5°	6499.4	6410.1	6449.2	6521.7	6493.8	6516.1	6616.5	6527.3	6549.6	6510.5	6482.6
20°	6694.6	6622.1	6627.7	6655.6	6655.6	6722.5	6761.6	6728.1	6705.8	6700.2	6711.4
22.5°	6912.2	6828.5	6834.1	6951.3	6990.3	6968.0	6940.1	6995.9	7007.1	6962.4	7012.6
25°	7074.0	7163.3	7191.2	7247.0	7163.3	7224.6	7202.3	7308.3	7375.3	7286.0	7347.4
27.5°	7498.0	7458.9	7531.5	7525.9	7592.8	7531.5	7570.5	7604.0	7631.9	7637.5	7609.6
30°	7877.4	7894.1	7821.6	8016.8	7860.6	7961.0	8028.0	8044.7	8078.2	8078.2	7994.5
32.5°	8279.0	8245.6	8362.7	8318.1	8290.2	8368.3	8295.8	8524.5	8390.6	8468.7	8373.9
35°	8730.9	8730.9	8775.6	8898.3	8730.9	8680.7	8814.6	8909.5	8909.5	8770.0	8803.5
37.5°	9238.6	9194.0	9249.8	9406.0	9277.7	9110.3	9355.8	9394.8	9366.9	9327.9	9260.9
40°	9595.7	9584.5	9696.1	9902.5	9718.4	9684.9	9729.5	9835.5	9869.0	9908.1	9818.8
42.5°	10198.2	10248.4	10572.0	10521.7	10371.1	10254.0	10242.8	10638.9	10544.1	10443.6	10393.4
45°	11090.8	11046.2	11213.5	11219.1	11023.8	10767.2	10823.0	11185.6	11347.4	11124.3	11207.9
47.5°	11799.3	11821.6	11938.8	12178.7	11726.8	11459.0	11665.4	12251.2	12201.0	12117.3	12195.4
50°	12747.7	12848.1	13216.3	13132.7	12731.0	12401.8	12853.7	13406.0	13467.4	13160.6	13104.8
52.5°	14058.8	14215.0	14415.8	14482.7	14097.8	13980.6	14008.5	14694.7	14544.1	14248.4	14058.8
55°	15208.0	15280.5	15648.7	16201.0	16173.1	15609.7	15933.3	16189.9	15576.2	14968.1	15018.3
57.5°	15698.9	15732.4	16758.9	17863.5	18521.8	18650.2	18282.0	17417.2	15955.6	14784.0	14711.5
60°	14477.2	14795.2	16033.7	18527.4	21534.4	23018.4	20569.3	17556.7	15068.5	13645.9	13539.9
62.5°	11570.6	11587.3	13428.3	17210.8	23408.9	27297.4	21445.2	16245.7	12703.1	11090.8	10666.8
64°	8240.0	8396.2	10510.6	15235.9	23018.4	29038.0	21339.2	14533.0	10471.5	8184.2	7888.5
65°	5913.6	6131.2	8173.0	13227.5	22103.5	28831.6	21021.2	13060.1	8468.7	6248.3	5947.1
67.5°	2175.8	2265.0	3207.8	6616.5	15871.9	24569.3	16658.5	7180.0	3721.1	2650.0	2382.2
70°	1009.8	1015.4	1188.3	2186.9	6940.1	16429.8	7949.9	2694.6	1400.3	1110.2	1032.1
72.5°	742.0	758.7	831.3	1009.8	2041.9	6956.9	2610.9	1104.6	820.1	725.3	708.5
75°	602.5	613.7	636.0	730.8	942.8	1863.3	1060.0	764.3	652.7	585.8	563.5
77.5°	463.0	463.0	513.3	557.9	624.8	870.3	702.9	608.1	530.0	463.0	446.3
80°	334.7	340.3	401.7	435.2	424.0	574.6	507.7	502.1	435.2	362.6	334.7
82.5°	195.3	212.0	290.1	312.4	301.3	340.3	368.2	390.5	340.3	251.0	228.7
85°	111.6	117.2	167.4	172.9	172.9	161.8	212.0	234.3	228.7	156.2	139.5
87.5°	33.5	33.5	44.6	44.6	50.2	55.8	83.7	100.4	111.6	78.1	72.5
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0	5696.0
2.5°	5785.3	5701.6	5707.2	5729.5	5657.0	5684.9	5768.6	5707.2	5690.4	5657.0	5640.2
5°	5757.4	5846.7	5813.2	5824.3	5807.6	5729.5	5718.3	5768.6	5796.4	5746.2	5846.7
7.5°	5952.7	5913.6	5869.0	5885.7	5846.7	5913.6	5958.2	5857.8	5908.0	5880.1	5824.3
10°	6064.2	5991.7	6025.2	6014.0	5986.1	6053.1	6008.4	5997.3	5952.7	5891.3	5980.5
12.5°	6103.3	6187.0	6242.8	6147.9	6164.7	6131.2	6103.3	6103.3	6053.1	6036.3	6053.1
15°	6276.2	6348.8	6326.4	6399.0	6304.1	6337.6	6371.1	6287.4	6332.0	6209.3	6304.1
17.5°	6594.2	6532.9	6611.0	6516.1	6549.6	6616.5	6510.5	6510.5	6544.0	6477.1	6393.4
20°	6795.1	6767.2	6739.3	6744.9	6689.1	6750.4	6717.0	6700.2	6650.0	6672.3	6717.0
22.5°	6984.7	6945.7	6956.9	6973.6	7012.6	6984.7	6968.0	6984.7	6862.0	6973.6	6817.4
25°	7219.1	7325.1	7291.6	7364.1	7252.5	7325.1	7319.5	7213.5	7280.4	7235.8	7202.3
27.5°	7609.6	7553.8	7604.0	7514.7	7592.8	7598.4	7531.5	7710.0	7631.9	7620.7	7598.4
30°	8111.7	8072.6	8039.2	7988.9	8050.3	8000.1	8055.9	8072.6	8000.1	7944.3	7838.3
32.5°	8396.2	8502.2	8541.2	8418.5	8424.1	8452.0	8401.8	8351.6	8396.2	8412.9	8396.2
35°	8797.9	8898.3	8920.6	8825.8	8775.6	8915.0	8814.6	8982.0	8836.9	8842.5	8691.9
37.5°	9266.5	9294.4	9484.1	9378.1	9333.4	9266.5	9450.6	9428.3	9461.8	9194.0	9327.9
40°	9796.5	9896.9	10002.9	9735.1	9729.5	9790.9	9779.8	9908.1	9846.7	9807.7	9712.8
42.5°	10376.7	10588.7	10605.4	10426.9	10315.3	10304.2	10360.0	10644.5	10650.1	10393.4	10281.9
45°	11146.6	11380.9	11319.5	10973.6	10850.9	10834.2	11107.5	11230.3	11336.3	11235.8	11141.0
47.5°	12106.1	12262.4	12217.7	11899.7	11503.6	11615.2	11883.0	12267.9	12156.4	12022.5	11910.9
50°	13132.7	13316.8	13221.9	12903.9	12524.6	12524.6	12853.7	13344.7	13311.2	13049.0	12948.6
52.5°	14270.7	14538.5	14756.1	14304.2	13986.2	14036.4	14555.3	14733.8	14650.1	14466.0	14382.3
55°	15118.7	15632.0	16078.3	16100.6	16117.4	16111.8	16245.7	16424.2	15827.3	15531.6	15230.3
57.5°	14912.3	15883.0	17411.7	18449.3	18756.2	18917.9	18873.3	18047.6	16636.2	15665.5	15765.9
60°	13439.5	15023.9	17489.8	20820.3	23051.9	22828.7	22014.2	18750.6	16189.9	14549.7	14343.3
62.5°	10722.6	12630.6	16178.7	21489.8	27637.7	27570.8	23308.5	17127.1	13489.7	11414.4	11286.1
64°	8078.2	10086.6	14432.5	21316.9	29244.4	29311.4	22979.4	15129.9	10555.2	8078.2	7882.9
65°	6181.4	8044.7	12719.8	20959.8	28898.5	28937.6	22064.4	13065.7	8022.4	5735.1	5523.1
67.5°	2460.3	3425.4	6901.1	15894.2	24814.8	24708.8	15743.6	6320.9	3068.4	1997.2	1958.2
70°	1048.8	1305.5	2421.2	7531.5	16613.9	16307.0	6778.3	2053.0	1138.1	954.0	948.4
72.5°	719.7	797.8	1037.7	2326.4	6906.6	6744.9	1930.3	954.0	775.5	714.1	714.1
75°	580.2	636.0	753.1	976.3	1829.9	1762.9	909.4	702.9	619.3	574.6	569.0
77.5°	451.9	507.7	591.4	675.0	836.8	831.3	608.1	530.0	479.8	446.3	435.2
80°	357.0	412.8	468.6	479.8	546.7	535.6	412.8	418.4	390.5	323.6	318.0
82.5°	245.5	334.7	373.8	340.3	323.6	323.6	295.7	295.7	273.4	200.8	184.1
85°	150.6	223.2	234.3	200.8	150.6	150.6	161.8	156.2	145.1	106.0	100.4
87.5°	78.1	106.0	94.8	78.1	50.2	50.2	44.6	33.5	33.5	27.9	27.9
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)