

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: P478145

Luminaire Tested: **IFLD-L-SA7D-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478145
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49289.1 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

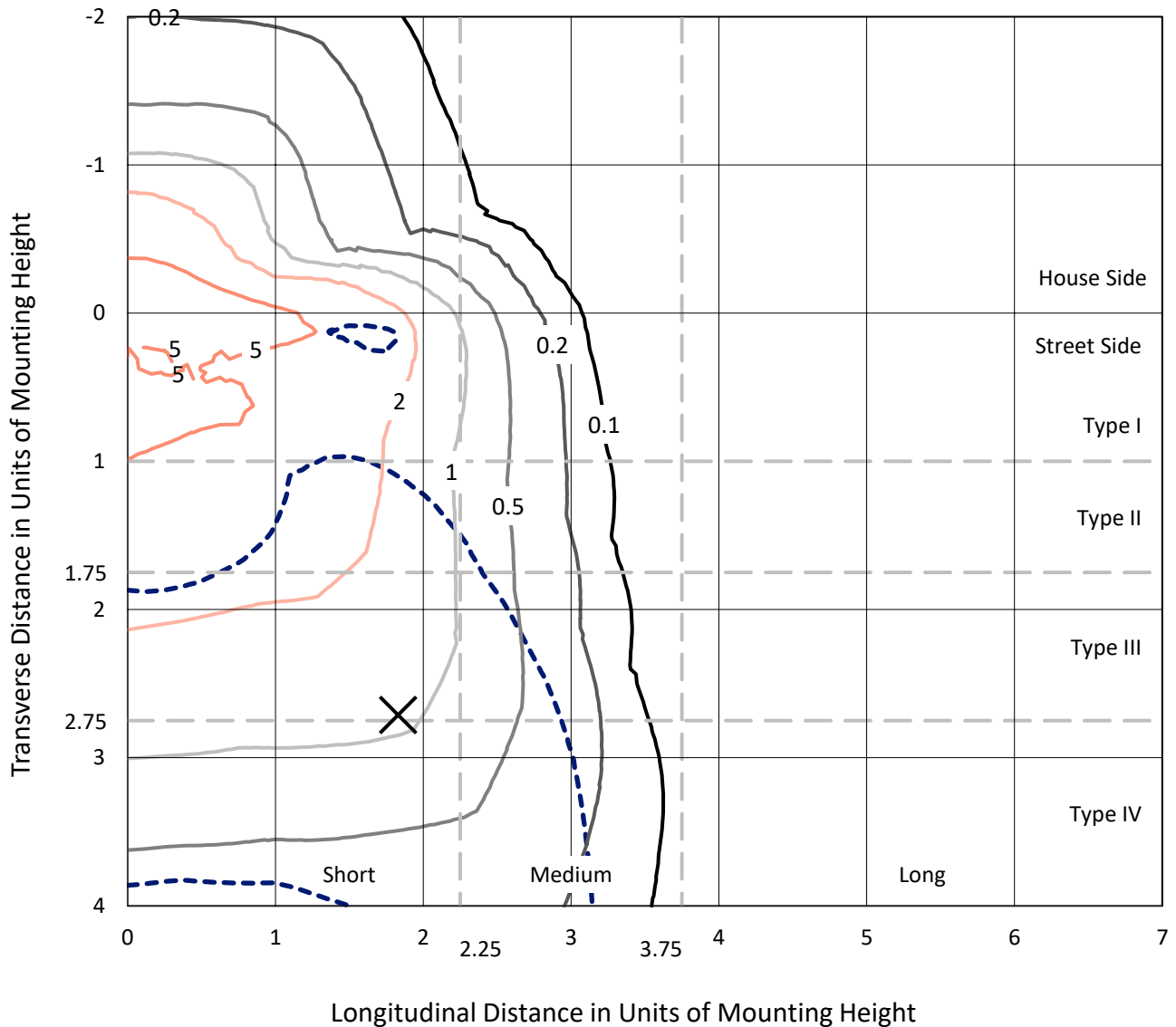
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

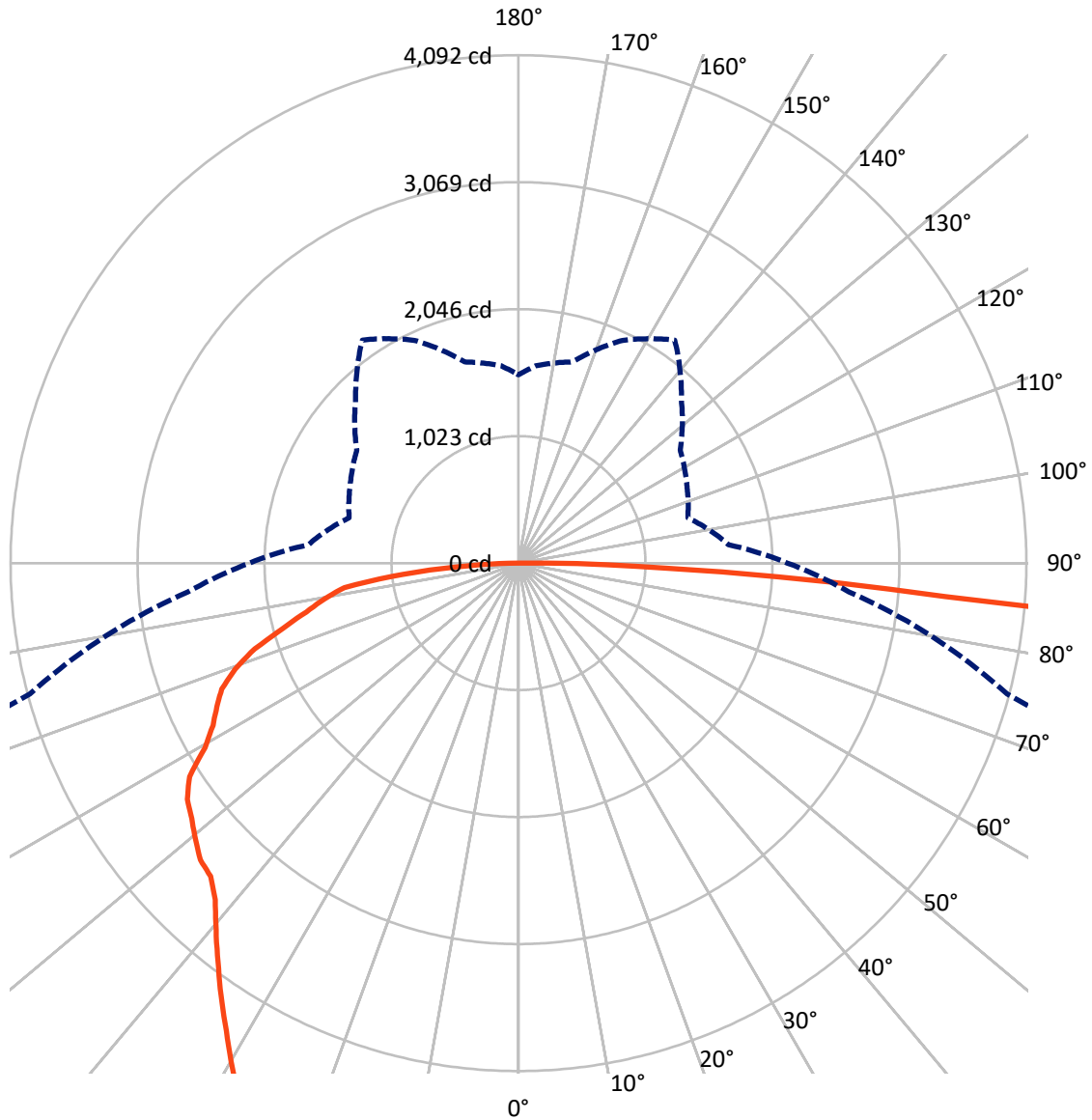
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10647.1	0.0	10647.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	38642.0	0.0	38642.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	49289.1	0.0	49289.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.2	1.3
10°-20°	1825.2	3.7
20°-30°	3004.0	6.1
30°-40°	4492.5	9.1
40°-50°	6660.0	13.5
50°-60°	9597.7	19.5
60°-70°	12247.9	24.8
70°-80°	9530.9	19.3
80°-90°	1278.6	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°	49289.1	100.0
0°-180°	49289.1	100.0

Coefficient of Utilization



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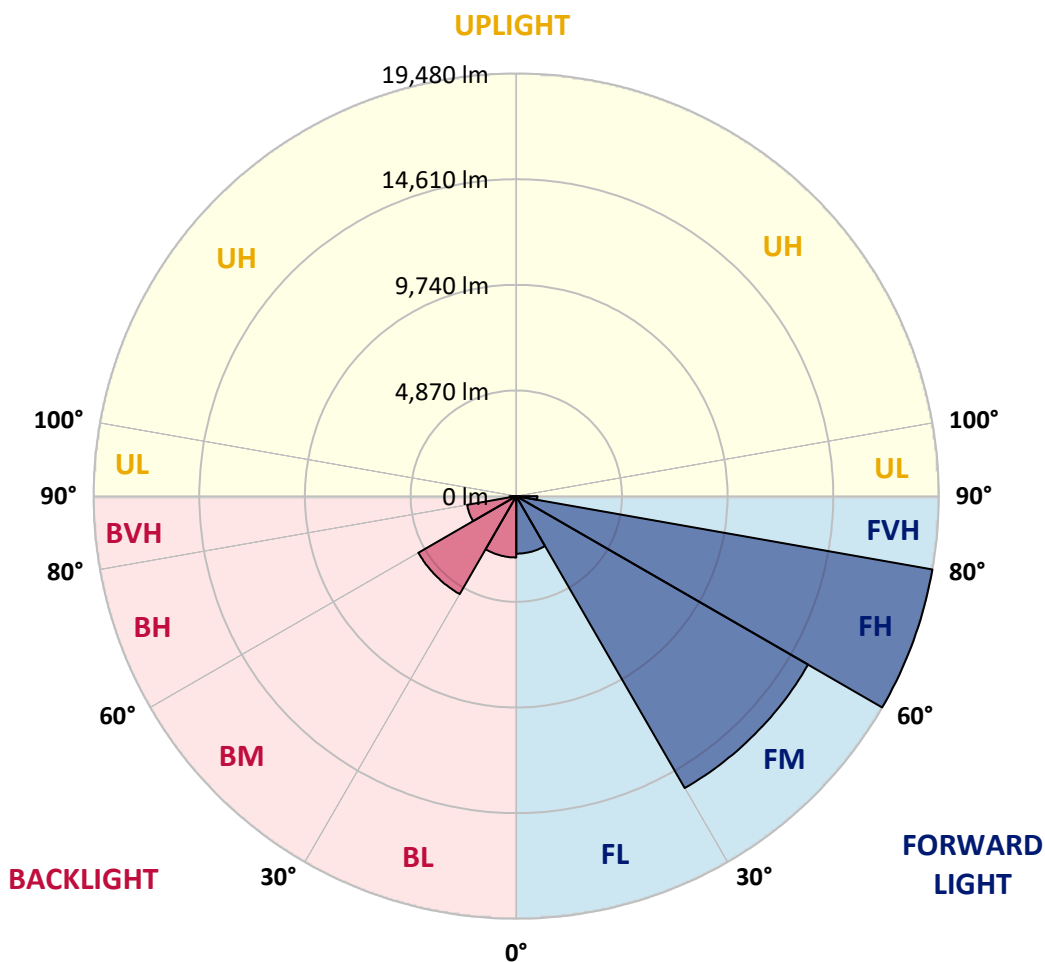
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2652.6	5.4			
FM (30°-60°)	15536.2	31.5			
FH (60°-80°)	19479.9	39.5			G5
FVH (80°-90°)	973.3	2.0			G5
BL (0°-30°)	2828.9	5.7	B4/5000		
BM (30°-60°)	5213.9	10.6	B4/8500		
BH (60°-80°)	2298.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	305.4	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4
2.5°	6331.6	6352.4	6420.2	6435.8	6508.8	6467.1	6555.7	6712.0	6800.6	6930.9	7087.2
5°	5831.3	5742.7	5784.4	5946.0	6029.3	6050.2	6144.0	6409.8	6576.5	6769.3	7061.2
7.5°	5242.5	5226.8	5310.2	5414.4	5581.2	5596.8	5805.3	6039.8	6383.7	6811.0	7155.0
10°	4841.2	4908.9	4955.8	5065.3	5179.9	5179.9	5445.7	5852.2	6243.0	6654.7	7175.8
12.5°	4820.3	4778.7	4789.1	4846.4	4929.8	5034.0	5284.1	5648.9	6144.0	6623.4	7264.4
15°	4888.1	4903.7	4809.9	4882.9	4914.1	4950.6	5226.8	5638.5	6081.5	6732.9	7415.5
17.5°	5247.7	5159.1	5013.2	4945.4	5054.8	5054.8	5242.5	5565.5	6091.9	6790.2	7634.4
20°	5529.1	5529.1	5289.4	5216.4	5294.6	5278.9	5409.2	5648.9	6144.0	6904.8	7879.3
22.5°	6003.3	6071.0	5675.0	5523.9	5518.6	5560.3	5675.0	5878.2	6289.9	7066.4	8113.8
25°	6685.9	6701.6	6243.0	6086.7	5919.9	5987.7	6008.5	6211.7	6420.2	7254.0	8379.6
27.5°	7446.8	7436.4	7014.3	6623.4	6514.0	6529.6	6415.0	6550.5	6613.0	7311.3	8760.0
30°	8291.0	8197.2	7879.3	7326.9	7238.3	7139.3	6889.2	6884.0	7014.3	7634.4	9286.3
32.5°	8843.4	8723.5	8504.7	8108.6	7863.7	7874.1	7478.0	7472.8	7358.2	7988.7	9744.9
35°	9385.3	9203.0	9145.6	8739.2	8494.2	8520.3	8202.4	8160.7	7952.3	8525.5	10500.5
37.5°	10036.7	9875.2	9963.8	9656.3	9354.1	9229.0	9083.1	9031.0	8760.0	9281.1	11532.4
40°	10755.9	10703.8	10646.5	10495.3	10312.9	10323.4	10167.0	10114.9	9713.6	10193.1	12522.5
42.5°	11725.2	11527.1	11230.1	11329.1	11422.9	11521.9	11469.8	11334.3	10917.4	11120.7	13627.2
45°	12626.7	12366.1	11819.0	11850.2	12235.9	12314.0	12944.6	12928.9	12089.9	12298.4	14883.1
47.5°	13236.4	13116.6	12788.2	12751.8	13304.2	13298.9	14435.0	14435.0	13325.0	13470.9	16232.8
50°	14143.2	13830.5	13689.8	13872.2	14153.6	14346.4	15956.6	16055.7	14539.2	14695.5	17999.4
52.5°	15206.2	14815.4	14461.0	14930.0	15430.3	15555.4	17462.7	17421.0	15472.0	16118.2	20068.3
55°	16086.9	15888.9	15644.0	15915.0	16733.1	16889.4	18973.9	18588.3	16404.8	17295.9	21063.6
57.5°	17113.5	17233.4	17285.5	17217.8	18192.2	18437.2	20698.8	19594.1	17207.3	18088.0	21647.3
60°	18661.3	18734.2	18802.0	18963.5	19995.3	20339.3	22064.2	20855.2	17712.8	18546.6	21694.2
62.5°	21016.7	20735.3	20886.4	21444.0	22272.6	22663.4	24075.7	21741.1	18098.4	18822.8	20162.1
65°	23710.9	23330.5	23174.1	23893.3	26040.3	25727.6	26587.5	22402.9	17540.8	17791.0	17097.9
67.5°	26441.6	26483.2	26082.0	27525.5	30157.1	30157.1	28922.1	22720.8	16029.6	14419.3	11990.9
70°	28609.4	28739.7	28958.6	31757.0	35925.9	36556.5	31814.3	21418.0	12949.8	9599.0	6555.7
72.5°	28578.1	28187.3	29307.7	34461.6	41168.4	40642.0	32418.8	16936.3	8082.5	4700.5	3006.9
73°	27937.2	27608.9	28833.5	34435.5	41382.0	40887.0	31975.8	15612.7	7128.9	4075.1	2673.3
75°	22814.6	22220.5	24305.0	31188.9	38286.6	38667.0	27165.9	10182.7	3908.4	2511.8	1881.2
77.5°	10401.5	10662.1	13377.1	20922.9	29505.7	29953.9	17858.7	4403.5	2141.8	1761.4	1386.2
80°	3340.4	3507.1	5206.0	10401.5	18494.5	19302.2	8254.5	2001.1	1526.9	1349.7	1037.0
82.5°	1276.7	1271.5	2183.5	4325.3	8765.2	9281.1	3017.3	1219.4	1136.0	995.3	734.8
85°	448.2	469.0	823.4	1709.3	3449.8	3611.4	1047.4	677.5	786.9	667.0	422.1
87.5°	156.3	161.5	291.8	620.1	1188.2	1255.9	291.8	271.0	390.8	385.6	213.7
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°	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4	7066.4
2.5°	7139.3	7186.2	7201.9	7389.5	7389.5	7389.5	7462.4	7462.4	7441.6	7389.5	7514.5
5°	7170.6	7254.0	7415.5	7577.1	7618.8	7655.2	7754.2	7670.9	7702.1	7650.0	7696.9
7.5°	7259.2	7373.8	7676.1	7775.1	7707.3	7785.5	7681.3	7624.0	7566.6	7587.5	7514.5
10°	7410.3	7556.2	7696.9	7879.3	7749.0	7670.9	7457.2	7405.1	7222.7	7160.2	7217.5
12.5°	7597.9	7775.1	8014.8	7947.1	7696.9	7472.8	7243.5	7024.7	6915.2	6758.9	6800.6
15°	7785.5	7988.7	8025.2	7910.6	7597.9	7316.5	6899.6	6592.1	6482.7	6342.0	6415.0
17.5°	7988.7	8181.6	8119.0	7822.0	7399.9	6972.6	6498.3	6196.1	5966.8	5878.2	5878.2
20°	8291.0	8384.8	8285.8	7676.1	7160.2	6597.4	6138.8	5794.8	5565.5	5529.1	5471.7
22.5°	8525.5	8676.6	8233.7	7462.4	6811.0	6107.5	5581.2	5450.9	5383.2	5325.8	5252.9
25°	8827.7	8822.5	8139.9	7264.4	6211.7	5523.9	5206.0	5195.6	5164.3	5143.4	5242.5
27.5°	9114.4	8994.5	8030.4	6774.5	5591.6	5080.9	4908.9	5023.6	5070.5	5039.2	5080.9
30°	9567.7	9369.7	7874.1	6253.4	5044.4	4632.7	4664.0	4820.3	4898.5	4945.4	4882.9
32.5°	10047.2	9744.9	7551.0	5711.5	4559.8	4351.3	4424.3	4585.8	4679.6	4731.8	4789.1
35°	10740.3	10036.7	7222.7	5002.7	4210.6	4179.4	4221.1	4309.6	4445.1	4481.6	4497.3
37.5°	11594.9	10479.7	6779.8	4434.7	3939.7	3976.1	4017.8	4049.1	4054.3	4122.0	4096.0
40°	12449.5	10854.9	6133.6	3892.8	3658.3	3856.3	3835.4	3778.1	3731.2	3668.7	3653.0
42.5°	13199.9	11183.2	5414.4	3434.2	3408.1	3731.2	3663.5	3517.5	3408.1	3361.2	3283.0
45°	14044.1	11647.0	4690.1	3147.6	3215.3	3580.1	3559.2	3335.2	3194.5	3027.7	3006.9
47.5°	15138.5	12131.6	3997.0	2850.5	3032.9	3522.8	3533.2	3246.6	3043.3	2819.3	2788.0
50°	16540.3	12829.9	3470.6	2725.4	2923.5	3439.4	3455.0	3126.7	2860.9	2631.6	2610.8
52.5°	17884.8	13543.9	3032.9	2532.6	2850.5	3340.4	3376.8	3017.3	2709.8	2423.2	2438.8
55°	18562.2	13283.3	2657.7	2391.9	2683.8	3178.8	3314.3	2939.1	2480.5	2282.5	2277.3
57.5°	18713.4	12642.3	2360.7	2246.0	2543.1	3006.9	3210.1	2704.6	2376.3	2209.5	2188.7
60°	18218.3	11521.9	2126.2	2089.7	2365.9	2829.7	2970.4	2579.5	2272.1	2136.6	2105.3
62.5°	16998.9	10359.8	1964.6	2016.7	2214.8	2636.9	2819.3	2490.9	2173.1	2079.3	2011.5
65°	13939.9	8520.3	1834.3	1876.0	2058.4	2449.3	2725.4	2391.9	2084.5	1995.9	1990.7
67.5°	9656.3	5873.0	1730.1	1808.3	1933.3	2313.8	2631.6	2282.5	1969.8	1938.6	1896.9
70°	4945.4	3131.9	1594.6	1657.2	1797.9	2141.8	2464.9	2167.9	1850.0	1844.8	1792.6
72.5°	2506.6	1834.3	1438.3	1532.1	1631.1	1917.7	2256.4	2016.7	1698.8	1641.5	1558.1
73°	2167.9	1698.8	1412.2	1495.6	1589.4	1855.2	2193.9	1980.3	1678.0	1594.6	1516.5
75°	1579.0	1339.3	1266.3	1349.7	1422.7	1672.8	1985.5	1813.5	1542.5	1453.9	1381.0
77.5°	1182.9	1031.8	1052.7	1146.5	1209.0	1443.5	1766.6	1641.5	1396.6	1276.7	1245.5
80°	870.3	786.9	870.3	958.9	1005.8	1271.5	1610.3	1422.7	1177.7	1042.2	1016.2
82.5°	620.1	573.2	672.2	729.6	750.4	1052.7	1448.7	1136.0	891.1	713.9	656.6
85°	354.4	349.1	453.4	448.2	463.8	614.9	953.6	755.6	573.2	437.7	427.3
87.5°	156.3	172.0	229.3	182.4	192.8	291.8	406.5	281.4	234.5	130.3	99.0
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)