

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: P478174

Luminaire Tested: **IFLD-S-SA6D-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478174
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

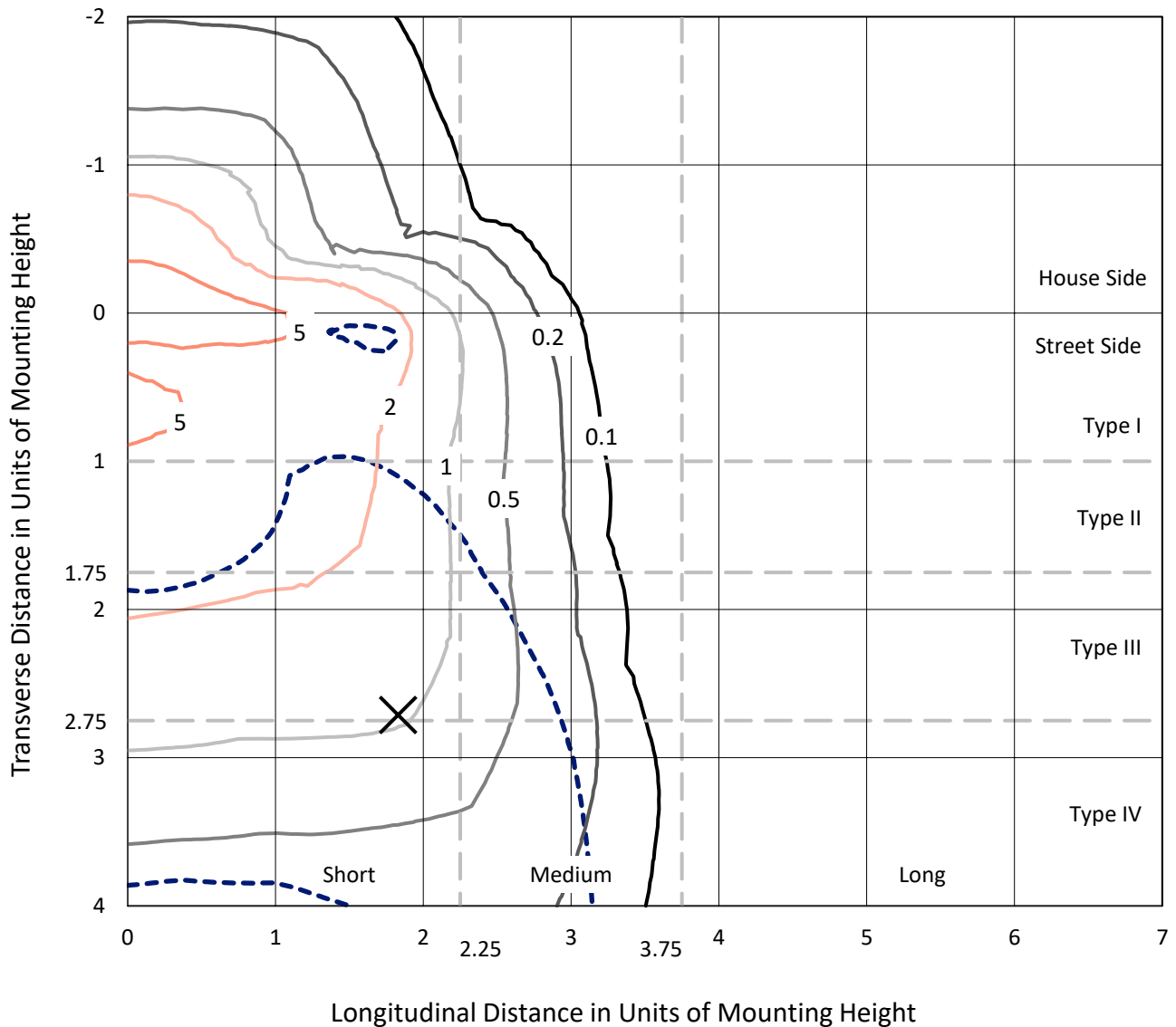
Lumens per Lamp: N/A
Luminaire Lumens: 46841.6 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

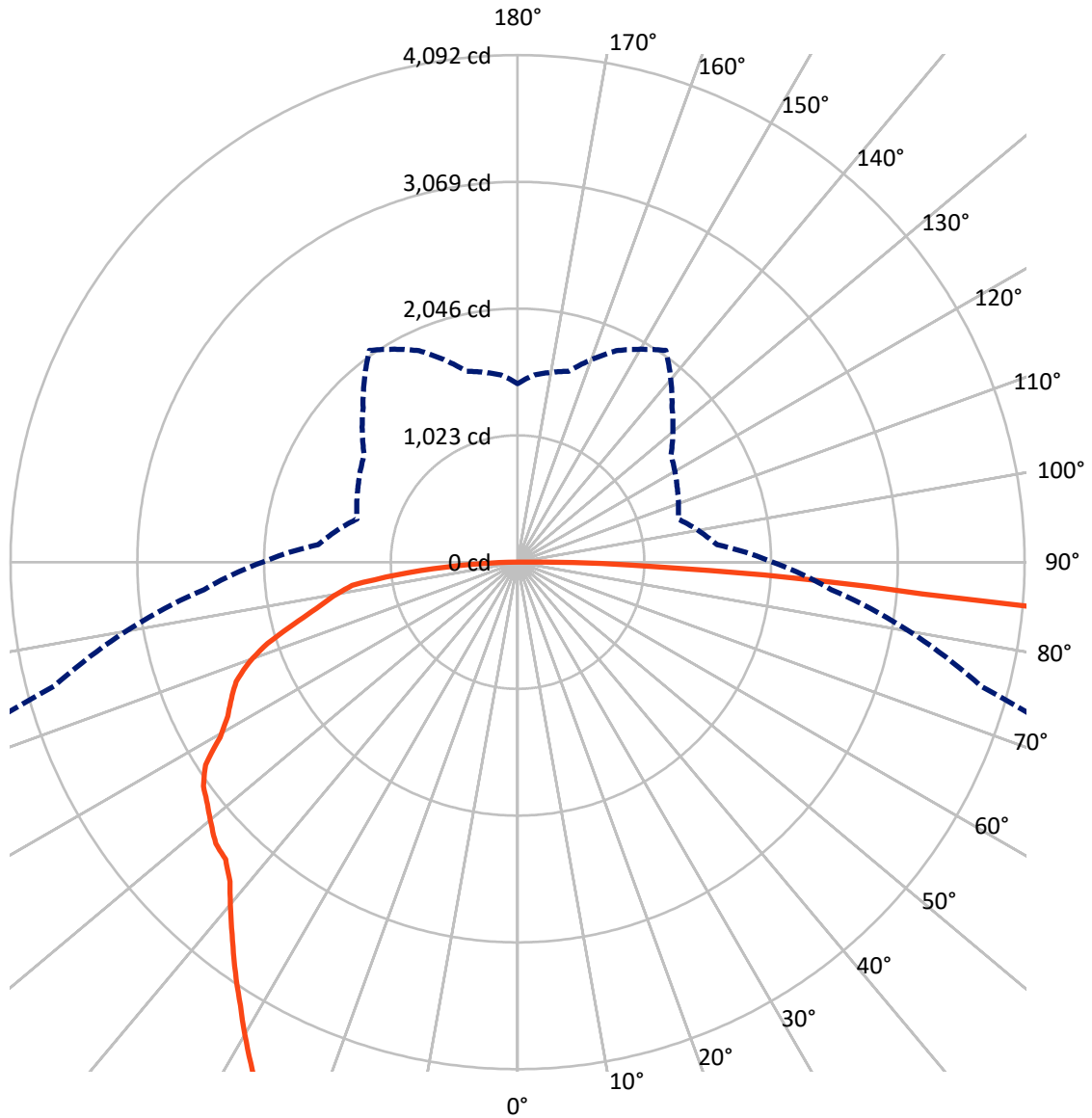
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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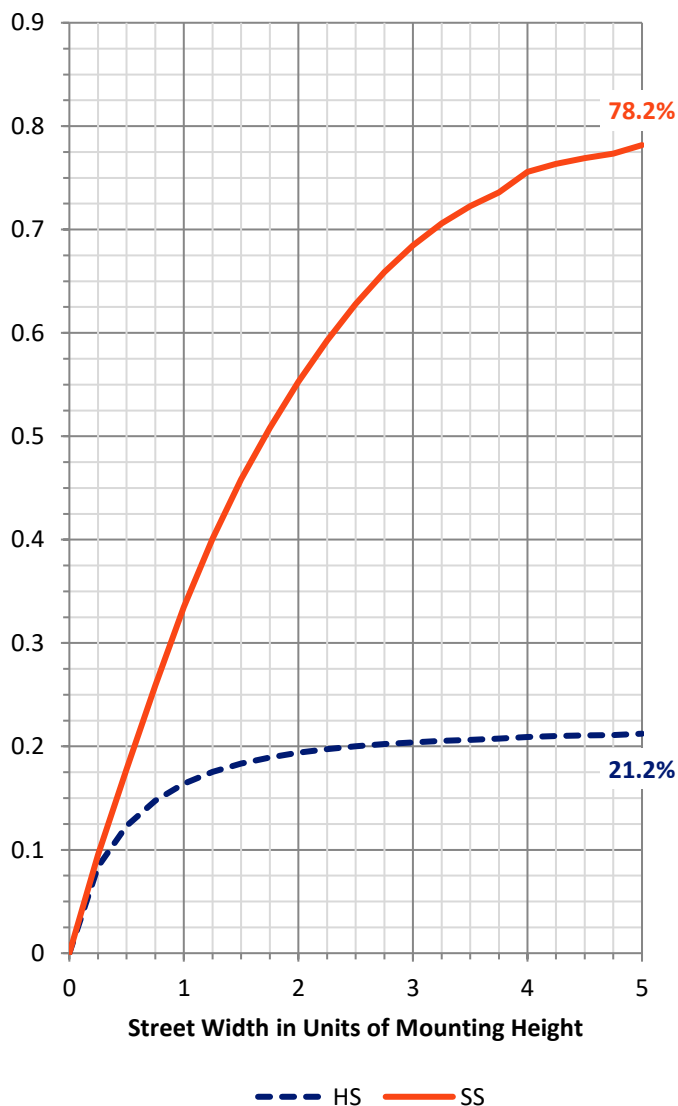
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10118.4	0.0	10118.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	36723.3	0.0	36723.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	46841.6	0.0	46841.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.8	1.3
10°-20°	1734.6	3.7
20°-30°	2854.9	6.1
30°-40°	4269.4	9.1
40°-50°	6329.3	13.5
50°-60°	9121.1	19.5
60°-70°	11639.8	24.8
70°-80°	9057.7	19.3
80°-90°	1215.1	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°	46841.6	100.0
0°-180°	46841.6	100.0

Coefficient of Utilization



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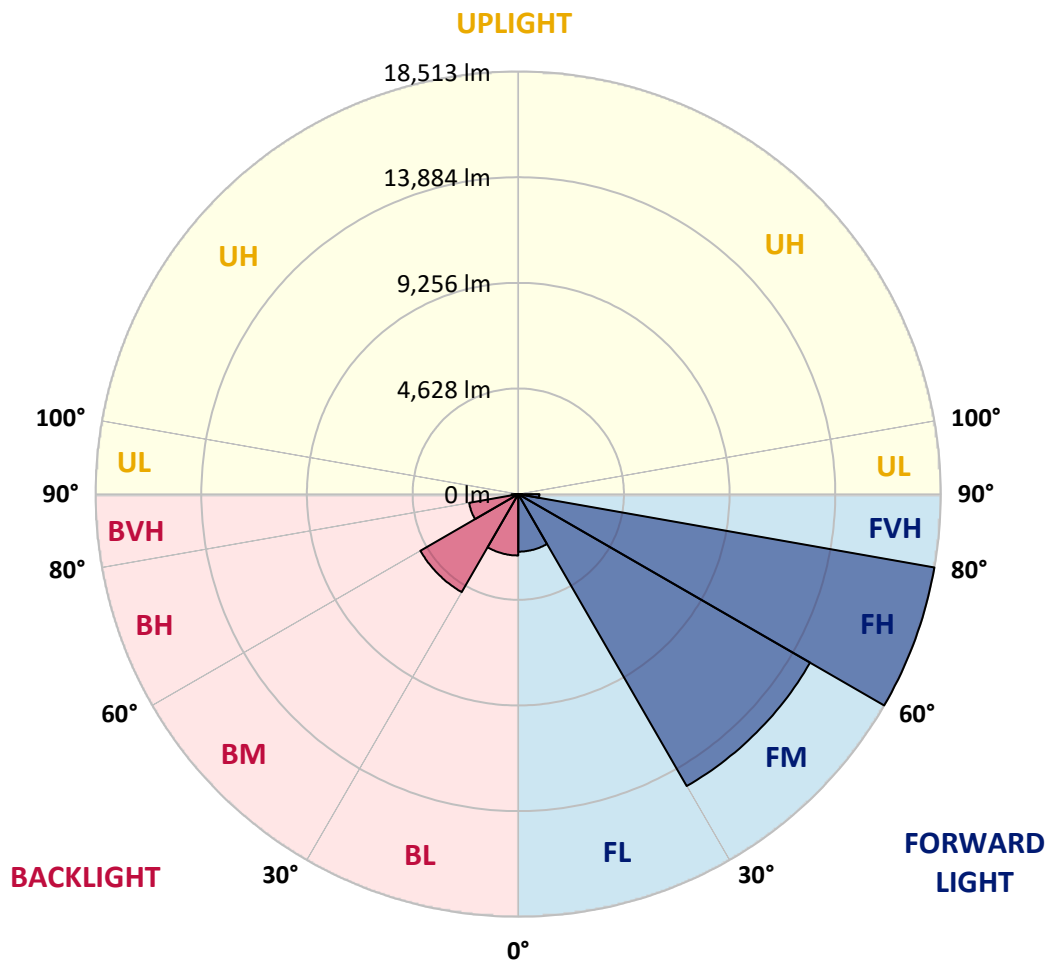
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.9	5.4			
FM (30°-60°)	14764.8	31.5			
FH (60°-80°)	18512.7	39.5			G5
FVH (80°-90°)	924.9	2.0			G5
BL (0°-30°)	2688.4	5.7	B4/5000		
BM (30°-60°)	4955.0	10.6	B3/5000		
BH (60°-80°)	2184.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	290.2	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°	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5
2.5°	6017.2	6037.0	6101.4	6116.2	6185.6	6146.0	6230.1	6378.7	6462.9	6586.7	6735.3
5°	5541.8	5457.6	5497.2	5650.7	5730.0	5749.8	5838.9	6091.5	6250.0	6433.2	6710.5
7.5°	4982.1	4967.3	5046.5	5145.6	5304.0	5318.9	5517.0	5739.9	6066.7	6472.8	6799.7
10°	4600.8	4665.2	4709.8	4813.8	4922.7	4922.7	5175.3	5561.6	5933.0	6324.2	6819.5
12.5°	4581.0	4541.4	4551.3	4605.8	4685.0	4784.0	5021.8	5368.4	5838.9	6294.5	6903.7
15°	4645.4	4660.2	4571.1	4640.4	4670.1	4704.8	4967.3	5358.5	5779.5	6398.5	7047.3
17.5°	4987.1	4902.9	4764.2	4699.8	4803.8	4803.8	4982.1	5289.2	5789.4	6453.0	7255.3
20°	5254.5	5254.5	5026.7	4957.4	5031.7	5016.8	5140.6	5368.4	5838.9	6562.0	7488.1
22.5°	5705.2	5769.6	5393.2	5249.6	5244.6	5284.2	5393.2	5586.3	5977.6	6715.5	7710.9
25°	6354.0	6368.8	5933.0	5784.4	5626.0	5690.3	5710.1	5903.3	6101.4	6893.8	7963.5
27.5°	7077.0	7067.1	6666.0	6294.5	6190.5	6205.4	6096.4	6225.2	6284.6	6948.2	8325.0
30°	7879.3	7790.2	7488.1	6963.1	6878.9	6784.8	6547.1	6542.1	6666.0	7255.3	8825.2
32.5°	8404.3	8290.4	8082.4	7706.0	7473.2	7483.1	7106.7	7101.8	6992.8	7592.1	9261.0
35°	8919.3	8746.0	8691.5	8305.2	8072.4	8097.2	7795.1	7755.5	7557.4	8102.2	9979.1
37.5°	9538.4	9384.8	9469.0	9176.8	8889.6	8770.7	8632.1	8582.5	8325.0	8820.3	10959.7
40°	10221.8	10172.3	10117.8	9974.2	9800.8	9810.7	9662.2	9612.6	9231.3	9686.9	11900.7
42.5°	11142.9	10954.8	10672.5	10766.6	10855.7	10949.8	10900.3	10771.5	10375.3	10568.5	12950.6
45°	11999.7	11752.1	11232.1	11261.8	11628.3	11702.6	12301.8	12287.0	11489.6	11687.7	14144.1
47.5°	12579.1	12465.2	12153.2	12118.6	12643.5	12638.6	13718.2	13718.2	12663.3	12802.0	15426.8
50°	13440.9	13143.7	13010.0	13183.3	13450.8	13634.0	15164.3	15258.4	13817.3	13965.8	17105.7
52.5°	14451.2	14079.7	13743.0	14188.7	14664.1	14783.0	16595.6	16555.9	14703.7	15317.8	19071.8
55°	15288.1	15099.9	14867.2	15124.7	15902.2	16050.8	18031.8	17665.3	15590.2	16437.1	20017.7
57.5°	16263.8	16377.7	16427.2	16362.8	17288.9	17521.7	19671.0	18621.1	16352.9	17189.9	20572.4
60°	17734.6	17804.0	17868.3	18021.9	19002.4	19329.3	20968.6	19819.6	16833.3	17625.7	20616.9
62.5°	19973.1	19705.7	19849.3	20379.2	21166.6	21538.1	22880.2	20661.5	17199.8	17888.1	19160.9
65°	22533.5	22172.0	22023.4	22706.9	24747.2	24450.1	25267.3	21290.5	16669.8	16907.6	16248.9
67.5°	25128.6	25168.2	24786.9	26158.7	28659.7	28659.7	27485.9	21592.6	15233.6	13703.3	11395.5
70°	27188.8	27312.6	27520.6	30180.1	34142.0	34741.2	30234.5	20354.5	12306.8	9122.4	6230.1
72.5°	27159.1	26787.6	27852.4	32750.4	39124.1	38623.9	30809.0	16095.4	7681.2	4467.1	2857.5
73°	26549.9	26237.9	27401.7	32725.6	39327.2	38856.7	30388.1	14837.5	6774.9	3872.8	2540.6
75°	21681.7	21117.1	23098.1	29640.2	36385.4	36747.0	25817.0	9677.0	3714.3	2387.1	1787.8
77.5°	9885.0	10132.7	12712.9	19884.0	28040.6	28466.5	16971.9	4184.8	2035.4	1673.9	1317.3
80°	3174.5	3333.0	4947.5	9885.0	17576.1	18343.8	7844.6	1901.7	1451.1	1282.7	985.5
82.5°	1213.3	1208.4	2075.1	4110.5	8330.0	8820.3	2867.5	1158.9	1079.6	945.9	698.3
85°	425.9	445.7	782.5	1624.4	3278.5	3432.0	995.4	643.8	747.8	633.9	401.1
87.5°	148.6	153.5	277.3	589.3	1129.2	1193.5	277.3	257.5	371.4	366.5	203.0
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°	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5	6715.5
2.5°	6784.8	6829.4	6844.2	7022.5	7022.5	7022.5	7091.9	7091.9	7072.1	7022.5	7141.4
5°	6814.5	6893.8	7047.3	7200.8	7240.4	7275.1	7369.2	7290.0	7319.7	7270.2	7314.7
7.5°	6898.7	7007.7	7294.9	7389.0	7324.6	7398.9	7299.9	7245.4	7190.9	7210.7	7141.4
10°	7042.3	7181.0	7314.7	7488.1	7364.3	7290.0	7086.9	7037.4	6864.1	6804.6	6859.1
12.5°	7220.6	7389.0	7616.8	7552.4	7314.7	7101.8	6883.9	6675.9	6571.9	6423.3	6462.9
15°	7398.9	7592.1	7626.7	7517.8	7220.6	6953.2	6557.0	6264.8	6160.8	6027.1	6096.4
17.5°	7592.1	7775.3	7715.9	7433.6	7032.4	6626.3	6175.7	5888.4	5670.5	5586.3	5586.3
20°	7879.3	7968.4	7874.3	7294.9	6804.6	6269.8	5834.0	5507.1	5289.2	5254.5	5200.0
22.5°	8102.2	8245.8	7824.8	7091.9	6472.8	5804.2	5304.0	5180.2	5115.9	5061.4	4992.0
25°	8389.4	8384.4	7735.7	6903.7	5903.3	5249.6	4947.5	4937.6	4907.8	4888.0	4982.1
27.5°	8661.8	8547.9	7631.7	6438.1	5313.9	4828.6	4665.2	4774.1	4818.7	4789.0	4828.6
30°	9092.6	8904.5	7483.1	5942.9	4793.9	4402.7	4432.4	4581.0	4655.3	4699.8	4640.4
32.5°	9548.3	9261.0	7176.1	5427.9	4333.4	4135.3	4204.6	4358.1	4447.3	4496.8	4551.3
35°	10206.9	9538.4	6864.1	4754.3	4001.6	3971.8	4011.5	4095.7	4224.4	4259.1	4273.9
37.5°	11019.1	9959.3	6443.1	4214.5	3744.0	3778.7	3818.3	3848.0	3853.0	3917.4	3892.6
40°	11831.3	10315.9	5829.0	3699.5	3476.6	3664.8	3645.0	3590.5	3545.9	3486.5	3471.6
42.5°	12544.5	10627.9	5145.6	3263.6	3238.9	3545.9	3481.6	3342.9	3238.9	3194.3	3120.0
45°	13346.8	11068.7	4457.2	2991.3	3055.6	3402.3	3382.5	3169.5	3035.8	2877.4	2857.5
47.5°	14386.8	11529.2	3798.5	2709.0	2882.3	3347.8	3357.7	3085.4	2892.2	2679.3	2649.5
50°	15719.0	12192.9	3298.3	2590.1	2778.3	3268.6	3283.5	2971.5	2718.9	2501.0	2481.2
52.5°	16996.7	12871.3	2882.3	2406.9	2709.0	3174.5	3209.2	2867.5	2575.3	2302.9	2317.7
55°	17640.5	12623.7	2525.7	2273.2	2550.5	3021.0	3149.7	2793.2	2357.4	2169.2	2164.2
57.5°	17784.1	12014.6	2243.4	2134.5	2416.8	2857.5	3050.7	2570.3	2258.3	2099.8	2080.0
60°	17313.7	10949.8	2020.6	1985.9	2248.4	2689.2	2822.9	2451.4	2159.3	2030.5	2000.8
62.5°	16154.8	9845.4	1867.1	1916.6	2104.8	2505.9	2679.3	2367.3	2065.2	1976.0	1911.6
65°	13247.7	8097.2	1743.3	1782.9	1956.2	2327.6	2590.1	2273.2	1981.0	1896.8	1891.8
67.5°	9176.8	5581.4	1644.2	1718.5	1837.3	2198.9	2501.0	2169.2	1872.0	1842.3	1802.7
70°	4699.8	2976.4	1515.4	1574.9	1708.6	2035.4	2342.5	2060.2	1758.1	1753.2	1703.6
72.5°	2382.1	1743.3	1366.9	1456.0	1550.1	1822.5	2144.4	1916.6	1614.5	1560.0	1480.8
73°	2060.2	1614.5	1342.1	1421.3	1510.5	1763.1	2085.0	1881.9	1594.7	1515.4	1441.2
75°	1500.6	1272.8	1203.4	1282.7	1352.0	1589.7	1886.9	1723.4	1465.9	1381.7	1312.4
77.5°	1124.2	980.6	1000.4	1089.5	1149.0	1371.8	1678.9	1560.0	1327.2	1213.3	1183.6
80°	827.1	747.8	827.1	911.2	955.8	1208.4	1530.3	1352.0	1119.2	990.5	965.7
82.5°	589.3	544.8	638.9	693.3	713.1	1000.4	1376.8	1079.6	846.9	678.5	624.0
85°	336.8	331.8	430.9	425.9	440.8	584.4	906.3	718.1	544.8	416.0	406.1
87.5°	148.6	163.4	217.9	173.3	183.2	277.3	386.3	267.4	222.9	123.8	94.1
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)