

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: P480047

Luminaire Tested: **IFLD-S-SA6E-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480047
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

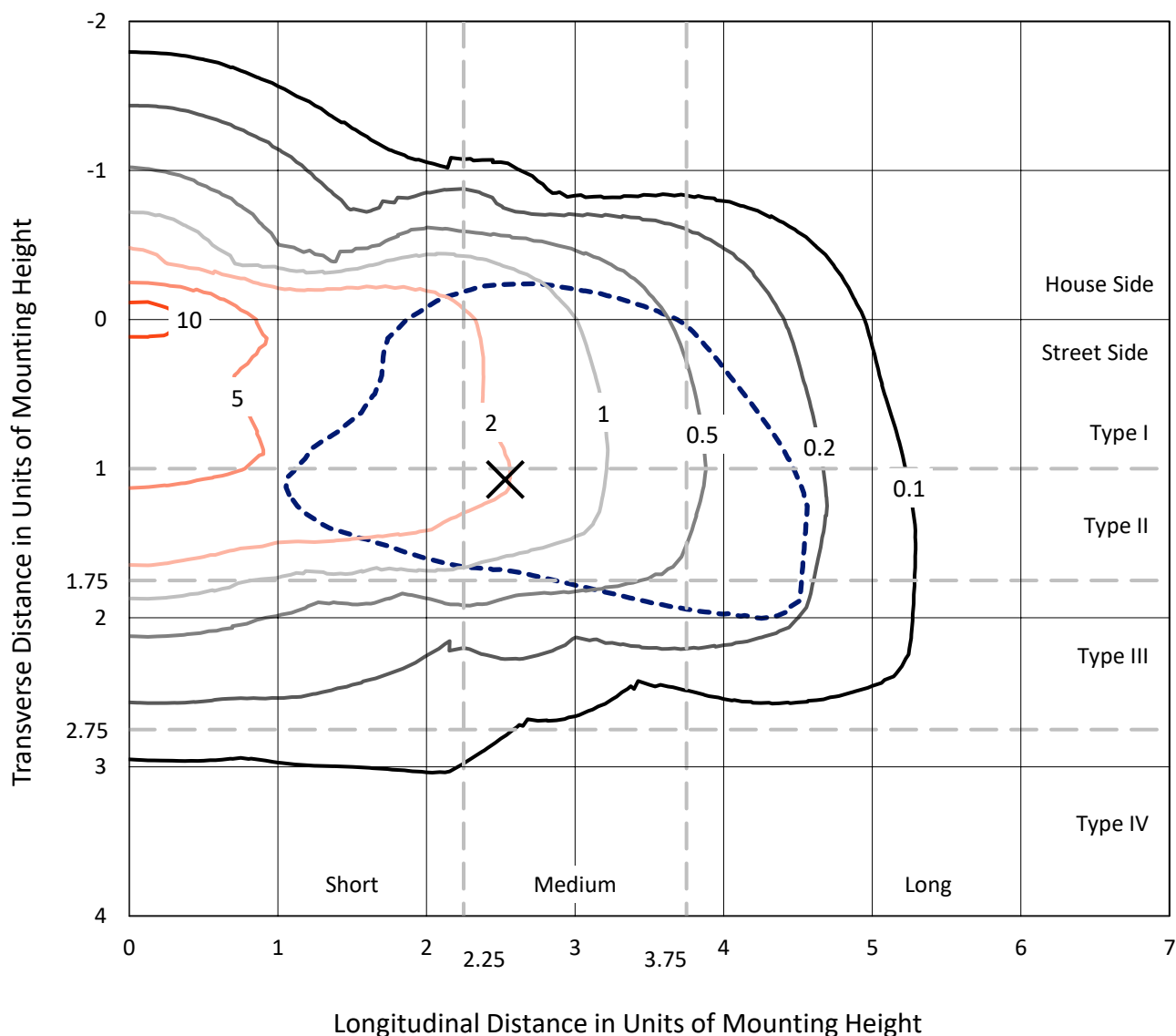
Lumens per Lamp: N/A
Luminaire Lumens: 48040.8 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

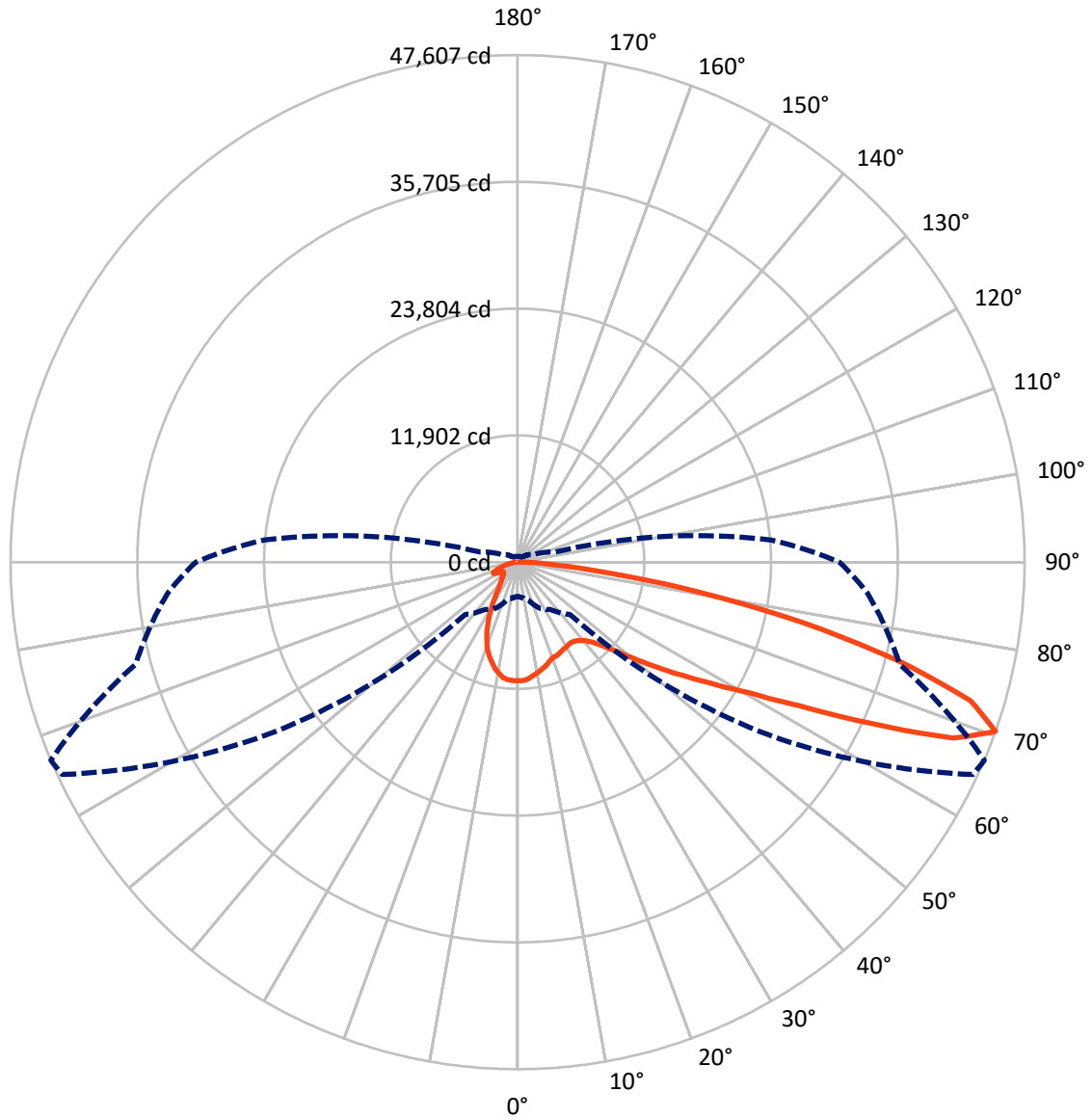
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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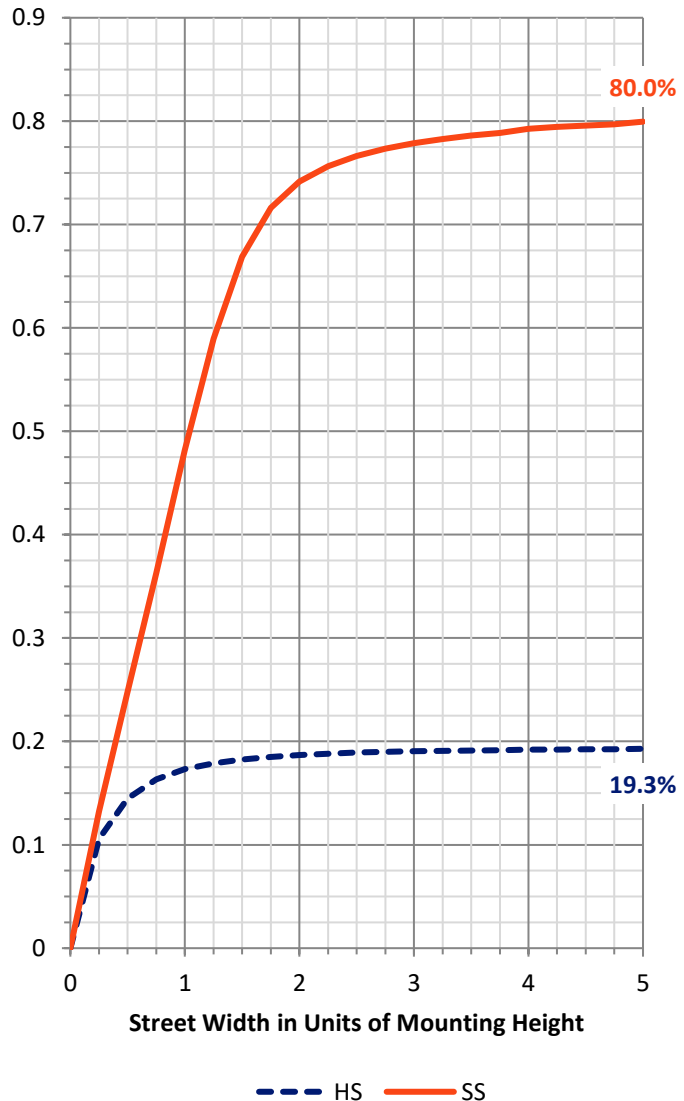
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9356.4	0.0	9356.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	38684.4	0.0	38684.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	48040.8	0.0	48040.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	970.3	2.0
10°-20°	2324.0	4.8
20°-30°	3138.3	6.5
30°-40°	4199.4	8.7
40°-50°	6175.1	12.9
50°-60°	9625.4	20.0
60°-70°	11857.0	24.7
70°-80°	8378.0	17.4
80°-90°	1373.2	2.9
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°	48040.8	100.0
0°-180°	48040.8	100.0

Coefficient of Utilization



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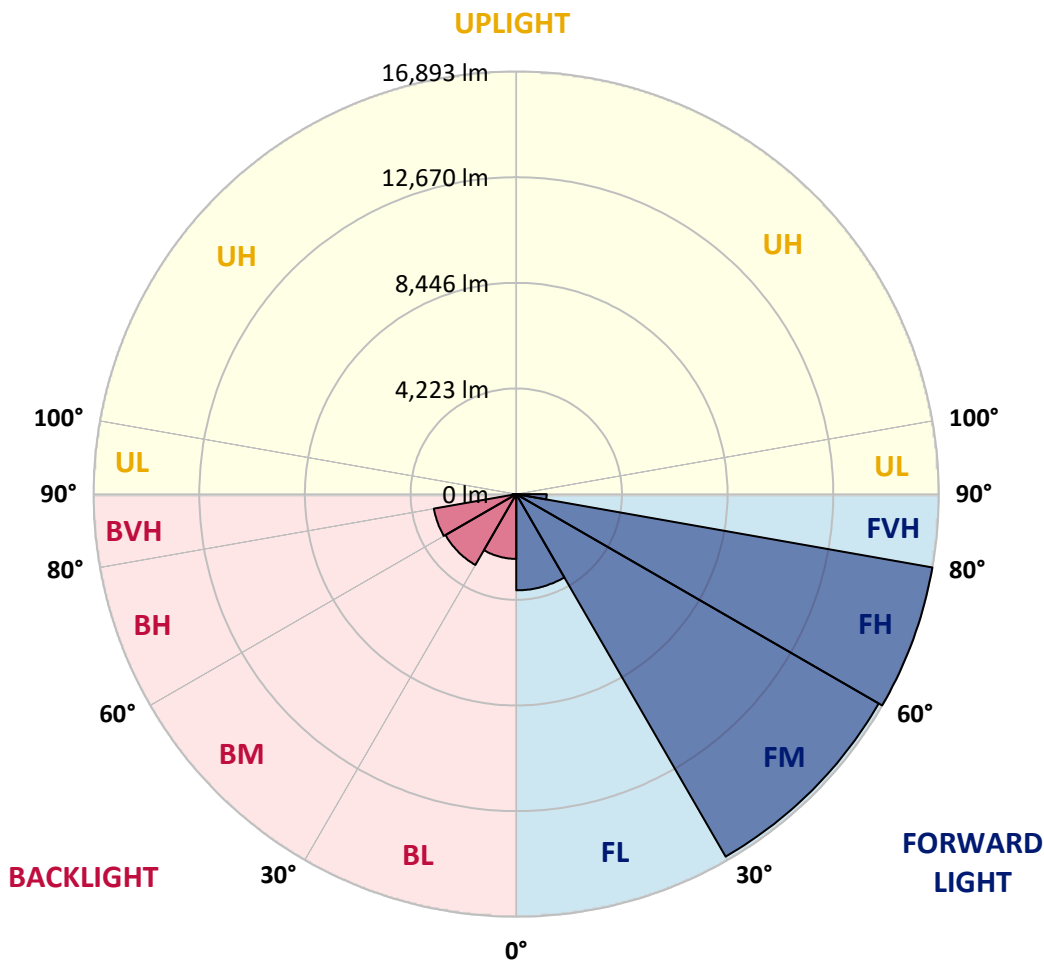
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3845.3	8.0			
FM (30°-60°)	16731.6	34.8			
FH (60°-80°)	16892.7	35.2			G5
FVH (80°-90°)	1214.8	2.5			G5
BL (0°-30°)	2587.4	5.4	B4/5000		
BM (30°-60°)	3268.4	6.8	B3/5000		
BH (60°-80°)	3342.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	158.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3
2.5°	10355.4	10472.4	10515.0	10578.8	10743.7	10866.0	10940.5	11025.6	11126.6	11211.7	11264.9
5°	9632.1	9695.9	9796.9	9866.1	10073.5	10403.3	10626.7	10988.3	10977.7	11110.7	11312.8
7.5°	8930.0	8993.8	9041.7	9180.0	9477.8	9775.7	10185.2	10770.3	10727.7	11036.2	11350.0
10°	8493.9	8446.0	8462.0	8696.0	8930.0	9265.1	9781.0	10376.7	10530.9	11009.6	11456.4
12.5°	8084.3	8031.2	8158.8	8307.7	8594.9	8898.1	9515.1	10052.2	10286.3	10913.9	11504.2
15°	7829.0	7791.8	7951.4	8015.2	8355.6	8717.3	9153.4	9807.6	10062.9	10796.9	11429.8
17.5°	7685.4	7717.4	7775.9	7914.1	8132.2	8440.7	8919.4	9642.7	9754.4	10653.3	11413.8
20°	7712.0	7749.3	7754.6	7813.1	7962.0	8201.4	8690.7	9467.2	9541.7	10626.7	11456.4
22.5°	7924.8	7871.6	7892.9	7855.6	7898.2	8084.3	8515.2	9233.2	9520.4	10403.3	11365.9
25°	8243.9	8169.4	8158.8	8031.2	7951.4	8004.6	8483.2	9174.7	9360.8	10334.1	11360.6
27.5°	8807.7	8696.0	8696.0	8504.5	8180.1	8095.0	8392.8	9078.9	9243.8	10270.3	11238.3
30°	9350.2	9350.2	9355.5	9084.2	8722.6	8302.4	8430.1	9041.7	9148.1	10078.8	11073.4
32.5°	10009.7	9993.7	9967.1	9834.2	9275.7	8648.1	8610.9	8993.8	9047.0	10015.0	11025.6
35°	10653.3	10610.7	10818.1	10701.1	10132.0	9323.6	8797.0	9015.1	9132.1	9919.3	10876.6
37.5°	11137.2	11163.8	11594.7	11669.1	11179.8	10089.5	9323.6	9227.9	9339.5	10057.6	10876.6
40°	11764.8	11871.2	12275.4	12525.4	12227.6	11100.0	10158.6	9584.2	9664.0	10366.0	11110.7
42.5°	12589.2	12679.7	13195.6	13520.0	13434.9	12387.1	10983.0	10328.8	10265.0	10882.0	11461.7
45°	13679.6	13695.5	14216.7	14663.5	14839.0	13732.7	12291.4	11270.2	11217.0	11770.2	12105.2
47.5°	14977.3	14961.4	15285.8	15764.5	16237.8	15339.0	13796.6	12700.9	12509.5	13041.3	13174.3
50°	16232.5	16163.4	16237.8	16849.5	17759.0	17349.4	15626.2	14450.8	14259.3	14551.8	14780.5
52.5°	16923.9	17009.0	16806.9	17615.4	19375.8	19726.9	18051.5	16541.0	16376.1	16519.7	16918.6
55°	16439.9	16615.5	16482.5	17248.4	20083.2	22625.5	21189.5	18961.0	18748.2	18695.0	19349.2
57.5°	14381.6	14700.7	14727.3	15940.0	19838.6	24870.0	25604.0	21817.1	21498.0	20955.5	21630.9
60°	11041.5	11360.6	11605.3	13041.3	17743.0	26210.3	30720.5	25880.5	24827.4	23423.3	23827.5
62.5°	7738.6	7956.7	8201.4	9084.2	13679.6	25423.1	35145.6	31603.4	29662.1	26024.1	26529.4
65°	5637.8	5808.0	6057.9	6579.2	8403.5	21035.2	37198.6	38400.6	36560.4	29332.3	29268.5
67.5°	4244.3	4350.7	4680.4	5515.4	5823.9	12993.5	35071.2	45580.8	44091.6	33007.5	31470.4
70°	3212.5	3302.9	3611.4	4754.9	5441.0	6967.4	27667.6	47181.7	47607.2	37129.5	32949.0
72.5°	2212.6	2313.6	2659.3	3962.4	5180.4	5526.1	17365.4	42863.0	44474.5	38826.1	31364.1
75°	1356.3	1425.4	1627.5	3005.0	5143.1	5403.7	9557.6	35124.3	36831.6	35874.3	27438.9
77.5°	957.4	952.0	989.3	1760.5	4457.0	5435.7	5893.1	25736.9	27396.4	26439.0	18620.6
80°	696.7	702.1	739.3	1053.1	3026.3	5526.1	4643.2	17237.7	17732.4	13785.9	7345.1
82.5°	420.2	441.4	531.9	712.7	1819.0	4988.9	4292.1	9578.9	8961.9	4425.1	2021.1
85°	223.4	223.4	313.8	452.1	968.0	3723.1	4132.6	4558.1	3818.8	1372.2	749.9
87.5°	53.2	53.2	90.4	180.8	388.3	1781.7	2818.9	1813.7	1452.0	462.7	308.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3	11121.3
2.5°	11243.6	11179.8	11259.6	11100.0	10972.4	10977.7	10780.9	10770.3	10743.7	10605.4	10653.3
5°	11371.3	11318.1	11227.7	11052.1	10770.3	10488.4	10318.2	10100.1	10009.7	9961.8	9983.1
7.5°	11493.6	11397.9	11137.2	10892.6	10456.5	9924.6	9616.1	9323.6	8951.3	8908.7	8834.3
10°	11525.5	11323.4	10988.3	10467.1	9887.4	9297.0	8594.9	8052.4	7765.2	7541.8	7456.7
12.5°	11477.6	11392.5	10749.0	10078.8	9201.3	8275.8	7456.7	6690.9	6159.0	5882.4	5808.0
15°	11472.3	11323.4	10483.1	9488.5	8366.2	7158.9	5994.1	5074.0	4515.5	4286.8	4286.8
17.5°	11477.6	11121.3	10169.3	8892.8	7382.3	5749.5	4467.7	3712.4	3403.9	3372.0	3398.6
20°	11371.3	10972.4	9839.5	8190.7	6148.4	4318.7	3244.4	2935.9	2935.9	2978.4	2994.4
22.5°	11275.5	10749.0	9318.3	7323.8	4893.2	3127.4	2638.0	2547.6	2648.7	2723.1	2755.1
25°	11142.6	10562.8	8786.4	6424.9	3723.1	2521.0	2292.3	2313.6	2409.3	2542.3	2531.7
27.5°	10951.1	10238.4	8153.5	5382.5	2771.0	2175.3	2116.8	2127.5	2228.5	2287.0	2276.4
30°	10733.0	9908.6	7568.4	4345.3	2196.6	1994.5	1989.2	2015.8	2031.7	2063.6	2058.3
32.5°	10456.5	9472.5	6946.2	3377.3	1978.5	1893.4	1872.2	1856.2	1872.2	1866.8	1850.9
35°	10259.7	9238.5	6313.2	2574.2	1856.2	1803.0	1787.1	1760.5	1739.2	1707.3	1702.0
37.5°	10206.5	9004.5	5648.4	2100.9	1760.5	1733.9	1680.7	1632.8	1606.2	1590.3	1579.6
40°	10174.6	8850.2	4999.5	1845.6	1680.7	1654.1	1590.3	1526.5	1499.9	1483.9	1489.2
42.5°	10286.3	8765.1	4340.0	1717.9	1611.6	1563.7	1494.5	1420.1	1414.8	1404.1	1420.1
45°	10679.8	8871.5	3728.4	1627.5	1542.4	1462.6	1372.2	1335.0	1329.7	1319.0	1329.7
47.5°	11573.4	9137.4	3207.1	1569.0	1467.9	1398.8	1303.1	1249.9	1244.6	1239.2	1239.2
50°	12807.3	9956.5	2771.0	1499.9	1420.1	1324.3	1233.9	1175.4	1164.8	1143.5	1143.5
52.5°	14743.3	11334.0	2510.4	1462.6	1335.0	1255.2	1159.5	1095.6	1069.0	1047.8	1047.8
55°	16923.9	13041.3	2462.5	1398.8	1244.6	1170.1	1085.0	1021.2	994.6	968.0	957.4
57.5°	19407.7	15301.7	2802.9	1356.3	1180.7	1085.0	989.3	930.8	909.5	882.9	872.3
60°	21721.4	17556.9	3861.3	1292.4	1122.2	1005.2	909.5	851.0	824.4	797.8	797.8
62.5°	24396.6	20349.1	5653.7	1292.4	1069.0	920.1	824.4	781.8	765.9	739.3	734.0
65°	27561.2	23237.2	6962.1	1372.2	1053.1	845.7	744.6	702.1	686.1	670.1	664.8
67.5°	29970.6	24896.6	5988.8	1585.0	1122.2	781.8	664.8	638.2	627.6	611.6	601.0
70°	30225.9	23886.0	3611.4	1712.6	1191.4	718.0	595.7	569.1	569.1	553.1	542.5
72.5°	27933.5	21194.8	2430.6	1526.5	1079.7	643.6	526.5	505.3	494.6	484.0	478.7
75°	23375.5	17977.0	1920.0	1218.0	829.7	531.9	457.4	436.1	420.2	414.9	404.2
77.5°	15700.6	11685.1	1420.1	952.0	611.6	430.8	382.9	361.7	345.7	340.4	324.4
80°	6031.3	4451.7	914.8	691.4	430.8	340.4	303.2	281.9	271.3	255.3	244.7
82.5°	1776.4	1441.4	510.6	425.5	276.6	234.0	218.1	202.1	186.2	170.2	164.9
85°	734.0	659.5	313.8	223.4	170.2	138.3	127.6	111.7	95.7	85.1	74.5
87.5°	340.4	281.9	143.6	85.1	58.5	31.9	16.0	5.3	0.0	0.0	0.0
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)