

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: P480539

Luminaire Tested: **IFLD-S-SA3E-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480539
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

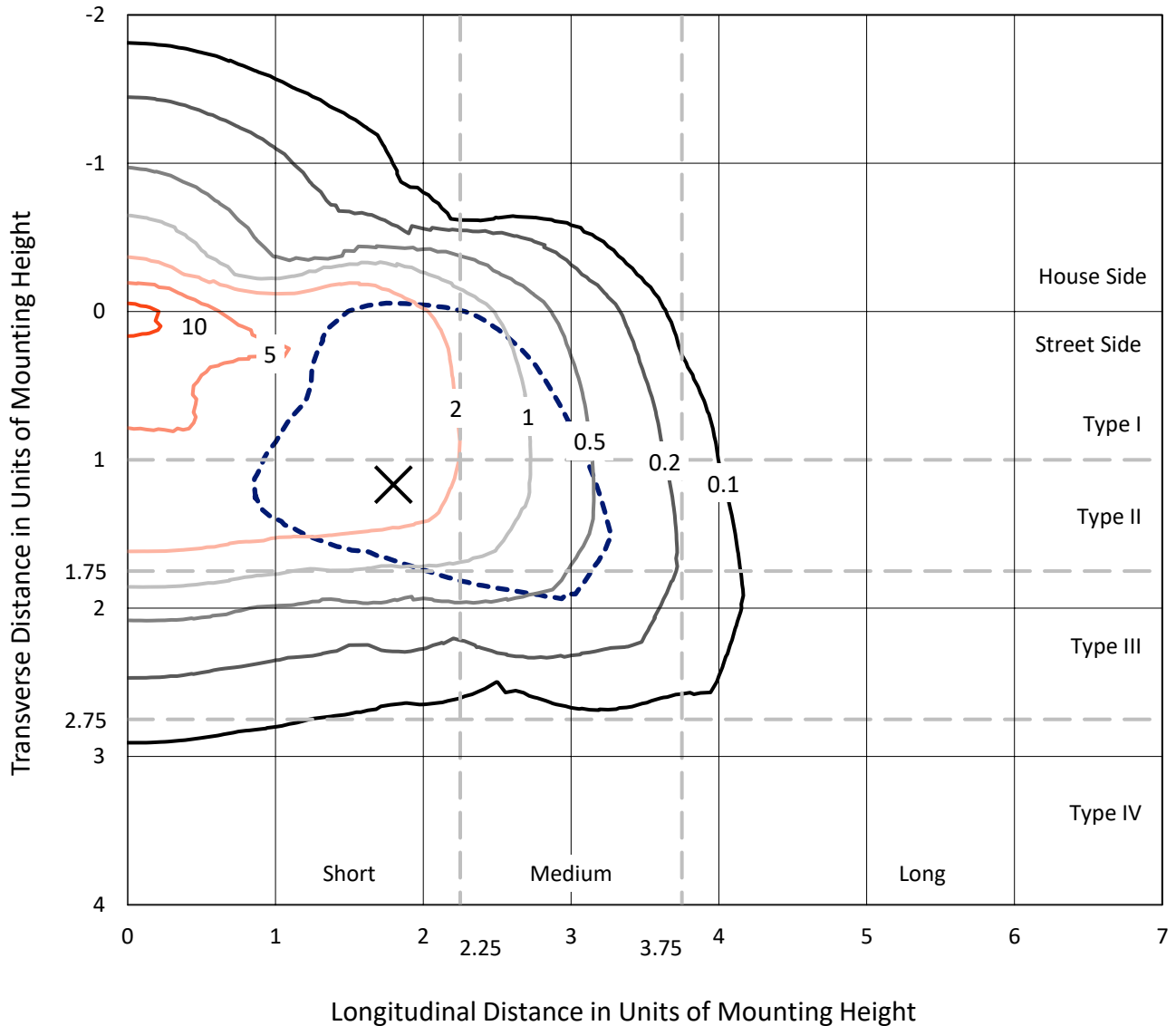
Lumens per Lamp: N/A
Luminaire Lumens: 27224.8 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

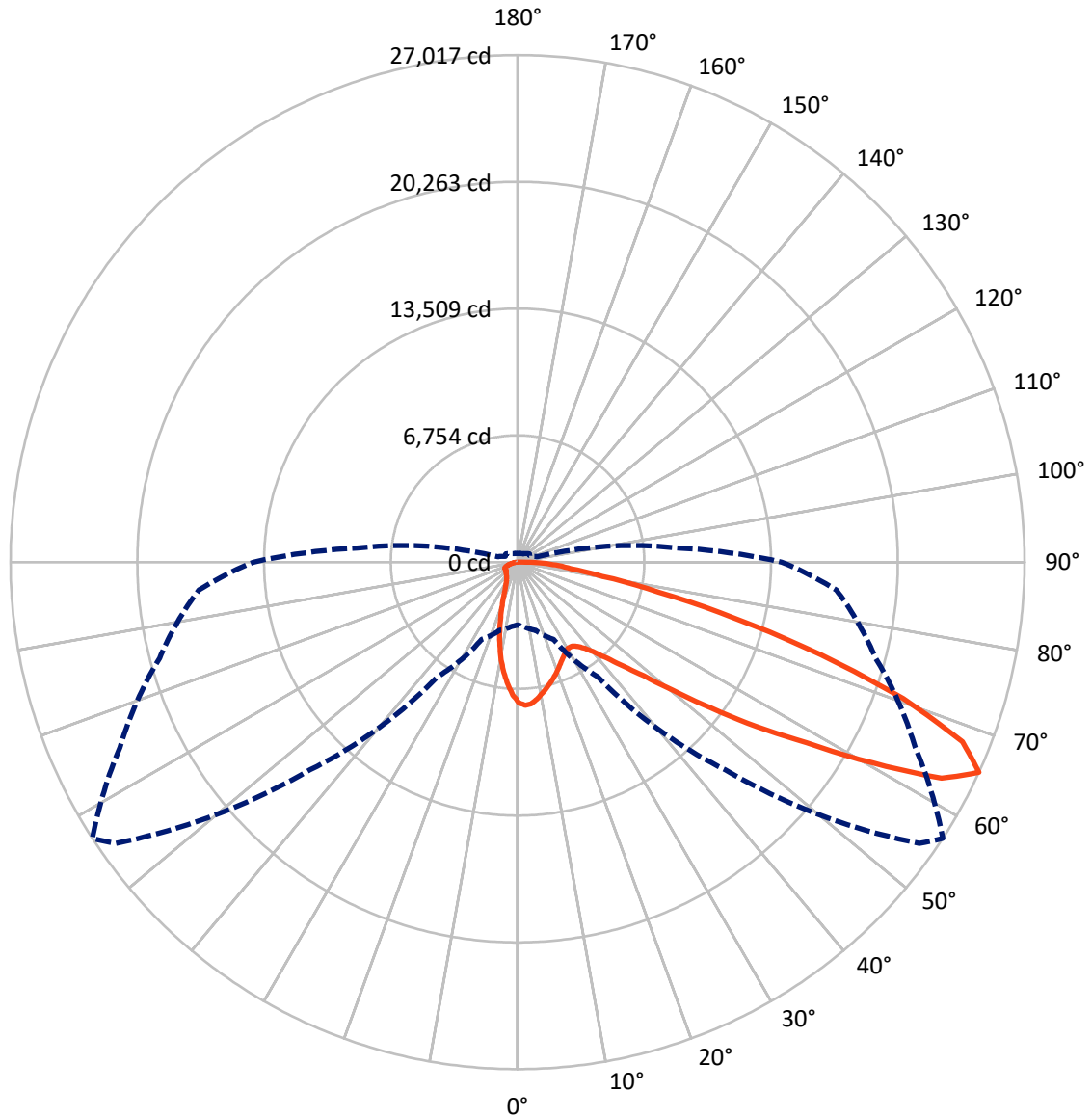
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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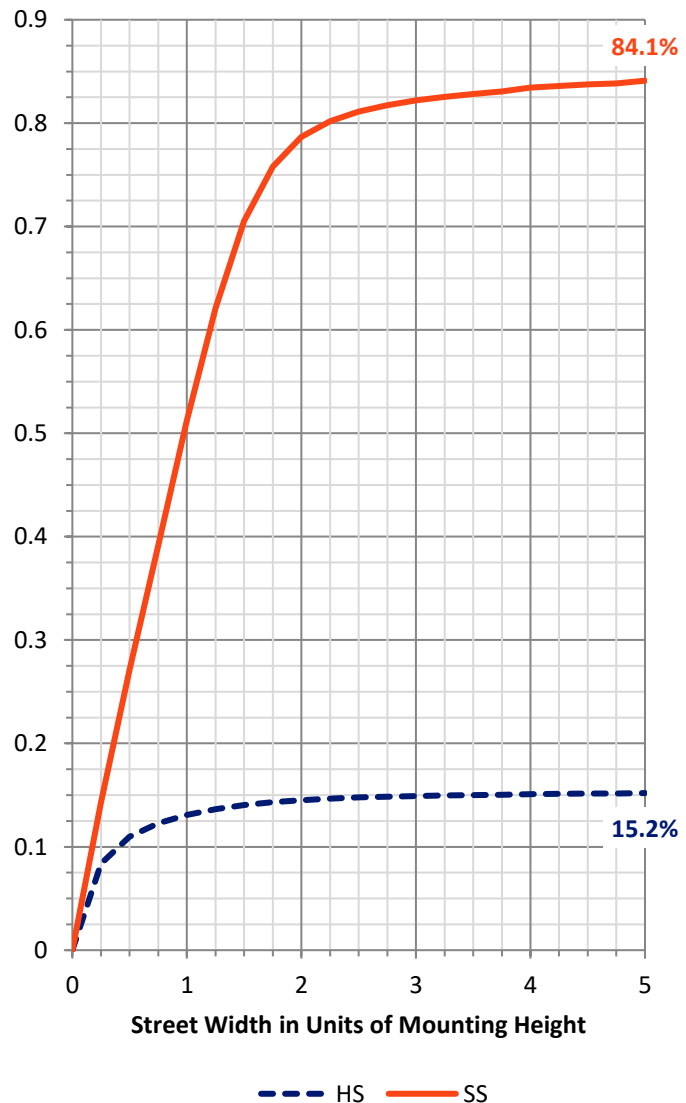
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4175.2	0.0	4175.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23049.6	0.0	23049.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	27224.8	0.0	27224.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.9	2.3
10°-20°	1349.3	5.0
20°-30°	1744.5	6.4
30°-40°	2347.5	8.6
40°-50°	3743.2	13.7
50°-60°	6611.3	24.3
60°-70°	7273.3	26.7
70°-80°	3042.6	11.2
80°-90°	486.3	1.8
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°	27224.8	100.0
0°-180°	27224.8	100.0

Coefficient of Utilization



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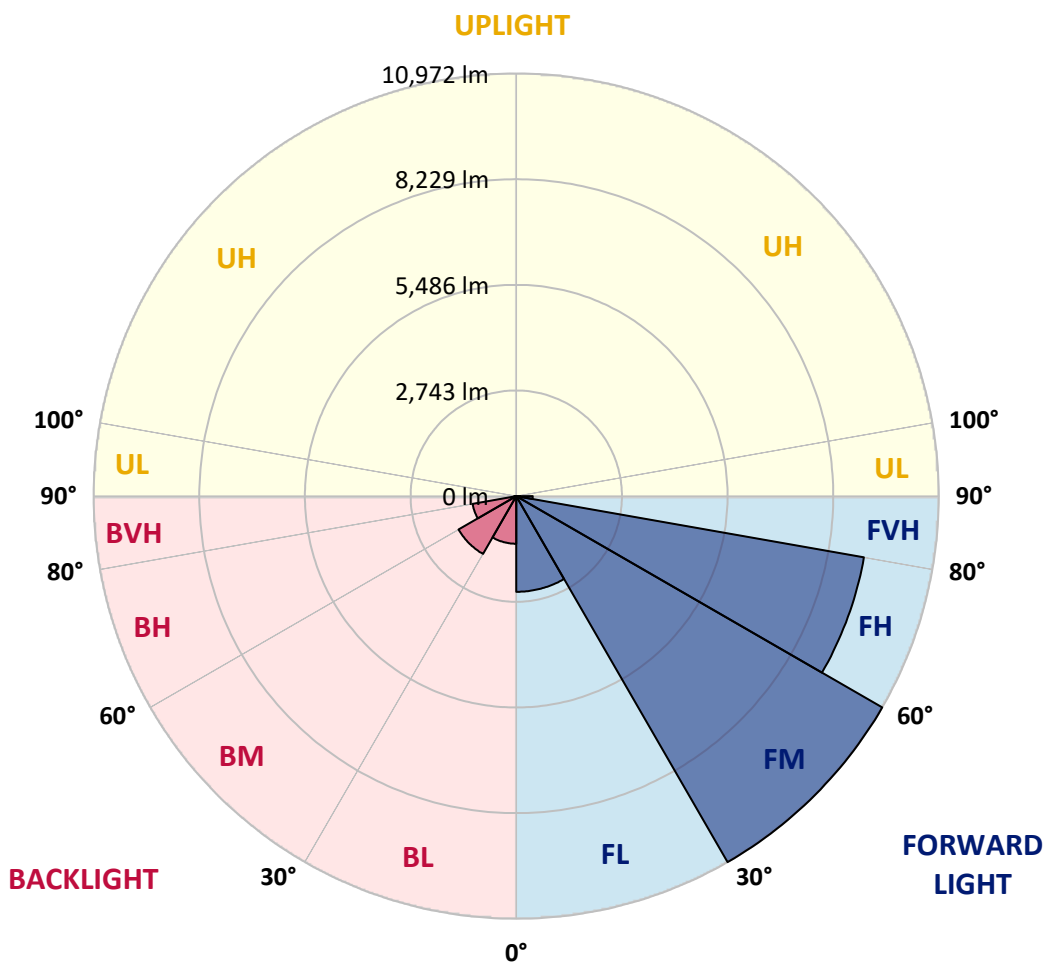
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2484.2	9.1			
FM (30°-60°)	10971.6	40.3			
FH (60°-80°)	9164.7	33.7			G4/12000
FVH (80°-90°)	429.2	1.6			G3/500
BL (0°-30°)	1236.5	4.5	B3/2500		
BM (30°-60°)	1730.4	6.4	B2/2500		
BH (60°-80°)	1151.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	57.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4
2.5°	7688.6	7700.9	7700.9	7725.4	7642.7	7682.5	7676.3	7639.6	7651.8	7587.5	7523.2
5°	7471.1	7461.9	7510.9	7517.1	7581.4	7599.8	7615.1	7590.6	7596.7	7455.8	7394.5
7.5°	6913.6	6910.6	6993.3	7063.7	7198.5	7324.1	7406.8	7382.3	7416.0	7327.1	7183.2
10°	6252.0	6322.4	6408.2	6478.6	6726.8	6886.0	7100.5	7121.9	7250.6	7229.1	6968.8
12.5°	5755.7	5786.4	5850.7	6052.9	6279.5	6543.0	6849.3	6876.9	7002.4	7063.7	6837.0
15°	5348.3	5375.9	5458.6	5608.7	5862.9	6175.4	6564.4	6634.9	6886.0	6907.5	6665.5
17.5°	5051.2	5072.6	5127.8	5277.9	5486.2	5887.4	6255.0	6380.6	6711.4	6815.6	6487.8
20°	4934.8	4888.8	4919.5	5014.4	5222.7	5532.1	6006.9	6117.2	6539.9	6745.1	6319.4
22.5°	4882.7	4842.9	4861.3	4855.2	5020.6	5241.1	5740.4	5856.8	6377.6	6662.4	6169.3
25°	4922.5	4922.5	4904.2	4888.8	4907.2	5051.2	5452.5	5633.2	6160.1	6592.0	6016.1
27.5°	5137.0	5054.3	5063.4	4999.1	4980.7	4980.7	5323.8	5431.0	6089.6	6552.2	5890.5
30°	5274.8	5314.6	5317.7	5222.7	5127.8	4956.2	5204.4	5308.5	6031.4	6601.2	5817.0
32.5°	5627.1	5608.7	5556.6	5538.2	5397.3	5204.4	5262.6	5333.0	5997.7	6711.4	5838.4
35°	5979.3	5970.2	5973.2	5964.0	5817.0	5532.1	5418.8	5513.7	6059.0	6904.4	5912.0
37.5°	6343.9	6368.4	6472.5	6472.5	6316.3	6006.9	5856.8	5829.2	6282.6	7219.9	6086.6
40°	6708.4	6769.6	6901.4	7109.7	6889.1	6601.2	6359.2	6316.3	6552.2	7642.7	6506.2
42.5°	7057.6	7158.7	7419.0	7728.4	7654.9	7367.0	7045.3	6996.3	7106.6	8270.6	7091.3
45°	7504.8	7590.6	8001.0	8475.8	8576.9	8322.7	7945.9	7906.1	7900.0	9189.6	7896.9
47.5°	8184.8	8276.7	8687.2	9165.1	9477.5	9517.3	9094.6	9051.7	8904.7	10430.2	9076.2
50°	9036.4	9186.5	9532.6	10090.1	10543.5	10969.3	10849.8	10724.2	10436.3	11872.9	10571.1
52.5°	9658.2	9842.0	10310.7	11024.4	11823.9	12500.9	12929.7	12929.7	12268.1	13456.6	12369.2
55°	9823.6	9933.9	10525.1	11557.4	12926.7	14639.0	15536.5	15469.1	14449.1	15123.0	14461.3
57.5°	9165.1	9309.0	10025.8	11107.1	13505.6	16639.2	18124.9	18140.2	16832.2	17058.9	16525.9
60°	7351.7	7397.6	8243.0	9688.9	12948.1	18250.5	21659.8	21718.0	19543.1	18783.5	17576.6
62.5°	5081.8	5228.9	5866.0	7134.2	10727.3	18069.7	25069.1	25357.1	21714.9	19693.2	17742.0
65°	3345.0	3433.8	3773.8	4545.8	7468.1	15662.1	26129.0	27017.3	23375.2	19745.3	17049.7
67.5°	2426.0	2441.4	2542.4	2940.7	4487.6	11263.3	24318.6	25571.5	23997.0	19310.3	15426.2
70°	1960.4	1972.7	2009.5	2263.7	2897.8	7048.4	19834.1	21797.6	22131.5	17248.8	12424.3
72.5°	1592.9	1608.2	1654.1	1893.1	2389.3	3920.9	14504.2	16896.5	18002.4	12761.2	8258.4
75°	1252.8	1265.1	1375.4	1611.2	2245.3	2692.5	9621.5	11964.8	12114.9	7458.9	3865.7
77.5°	857.7	879.1	1013.9	1366.2	2113.6	2355.6	5997.7	7664.1	6876.9	2919.2	1329.4
80°	545.2	575.9	655.5	1035.4	1868.5	2248.4	3731.0	4576.4	3011.1	998.6	640.2
82.5°	321.6	352.3	431.9	670.8	1467.3	2086.0	2628.2	2864.1	1412.1	511.6	386.0
85°	177.7	199.1	260.4	404.3	860.8	1853.2	2104.4	2055.4	808.7	272.6	242.0
87.5°	58.2	67.4	95.0	162.3	355.3	873.0	1262.0	1185.5	419.7	125.6	95.0
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°	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4	7486.4
2.5°	7480.3	7471.1	7333.3	7229.1	7051.5	6904.4	6846.2	6766.6	6763.5	6705.3	6690.0
5°	7299.6	7204.6	6993.3	6791.1	6475.6	6264.2	6071.2	5936.5	5881.3	5761.9	5734.3
7.5°	7066.8	6941.2	6616.5	6236.7	5866.0	5535.2	5235.0	4934.8	4766.3	4708.1	4643.8
10°	6824.8	6604.2	6123.3	5697.5	5179.9	4671.4	4199.6	3776.9	3547.2	3384.8	3314.4
12.5°	6631.8	6337.7	5725.1	5088.0	4404.9	3724.8	3176.5	2732.4	2472.0	2349.5	2294.3
15°	6414.3	6025.3	5290.1	4484.5	3632.9	2861.0	2325.0	1975.8	1871.6	1813.4	1804.2
17.5°	6184.6	5734.3	4818.4	3890.2	2879.4	2153.4	1807.3	1666.4	1620.4	1595.9	1583.7
20°	5970.2	5473.9	4334.4	3228.6	2254.5	1727.6	1565.3	1491.8	1488.7	1501.0	1497.9
22.5°	5666.9	5133.9	3856.6	2616.0	1801.2	1504.0	1399.9	1381.5	1399.9	1415.2	1421.3
25°	5495.4	4855.2	3323.6	2076.8	1488.7	1335.5	1301.9	1295.7	1323.3	1341.7	1338.6
27.5°	5317.7	4567.2	2827.3	1663.3	1304.9	1216.1	1210.0	1216.1	1243.7	1271.2	1268.2
30°	5179.9	4337.5	2361.7	1390.7	1164.0	1130.3	1124.2	1130.3	1145.6	1148.7	1148.7
32.5°	5066.5	4064.9	1966.6	1206.9	1078.2	1050.7	1056.8	1053.7	1056.8	1059.9	1062.9
35°	4999.1	3902.5	1641.9	1093.6	1007.8	986.3	983.3	974.1	977.2	980.2	977.2
37.5°	5143.1	3822.9	1384.6	1013.9	958.8	940.4	934.3	928.1	919.0	919.0	919.0
40°	5360.6	3780.0	1228.3	961.8	922.0	900.6	882.2	876.1	876.1	879.1	882.2
42.5°	5792.5	3850.4	1121.1	922.0	876.1	851.6	833.2	836.3	845.4	854.6	848.5
45°	6417.4	4064.9	1072.1	891.4	848.5	814.8	802.6	799.5	808.7	824.0	836.3
47.5°	7235.2	4398.7	1053.7	863.8	830.1	784.2	768.9	778.0	790.3	811.7	802.6
50°	8573.9	5149.2	1069.1	839.3	802.6	768.9	750.5	741.3	750.5	765.8	771.9
52.5°	10322.9	6512.3	1127.3	827.1	784.2	756.6	726.0	710.7	719.8	732.1	732.1
55°	12415.1	8374.8	1289.6	811.7	753.5	738.2	704.5	673.9	680.0	680.0	677.0
57.5°	14259.1	9780.8	1482.6	790.3	735.2	713.7	670.8	634.1	628.0	631.0	634.1
60°	15086.2	10154.5	1574.5	784.2	735.2	683.1	624.9	588.1	578.9	572.8	572.8
62.5°	14942.2	9508.1	1387.6	756.6	753.5	658.6	582.0	542.2	529.9	517.7	520.7
65°	14072.3	8586.1	1093.6	719.8	756.6	643.3	539.1	499.3	477.9	462.5	459.5
67.5°	12482.5	7330.2	866.9	692.3	726.0	615.7	502.4	456.4	438.0	422.7	416.6
70°	9765.4	5746.5	753.5	655.5	652.5	548.3	459.5	419.7	392.1	373.7	373.7
72.5°	6331.6	3632.9	646.3	582.0	563.6	459.5	398.2	373.7	352.3	337.0	337.0
75°	2867.1	1687.8	520.7	487.0	459.5	367.6	337.0	324.7	306.3	291.0	291.0
77.5°	1029.2	719.8	389.0	382.9	343.1	284.9	272.6	263.4	251.2	235.9	235.9
80°	575.9	456.4	291.0	278.8	238.9	211.4	196.0	196.0	189.9	180.7	177.7
82.5°	364.5	297.1	214.4	186.9	156.2	140.9	134.8	131.7	128.7	116.4	113.3
85°	229.7	202.2	140.9	110.3	91.9	70.5	67.4	64.3	58.2	52.1	52.1
87.5°	104.1	116.4	55.1	33.7	24.5	15.3	9.2	3.1	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)