

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: P480408

Luminaire Tested: **IFLD-L-SA7E-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480408
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

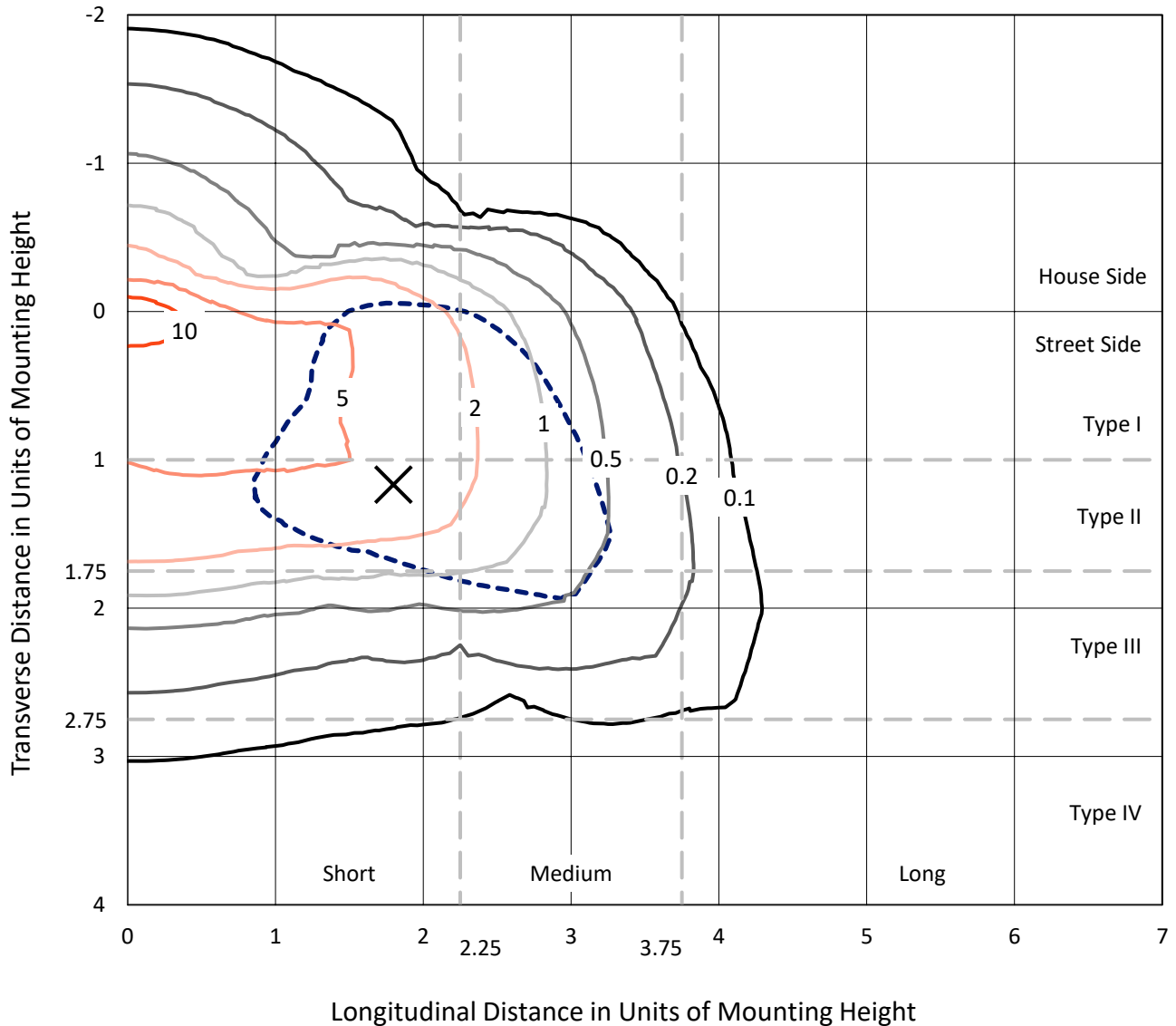
Lumens per Lamp: N/A
Luminaire Lumens: 46583.7 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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

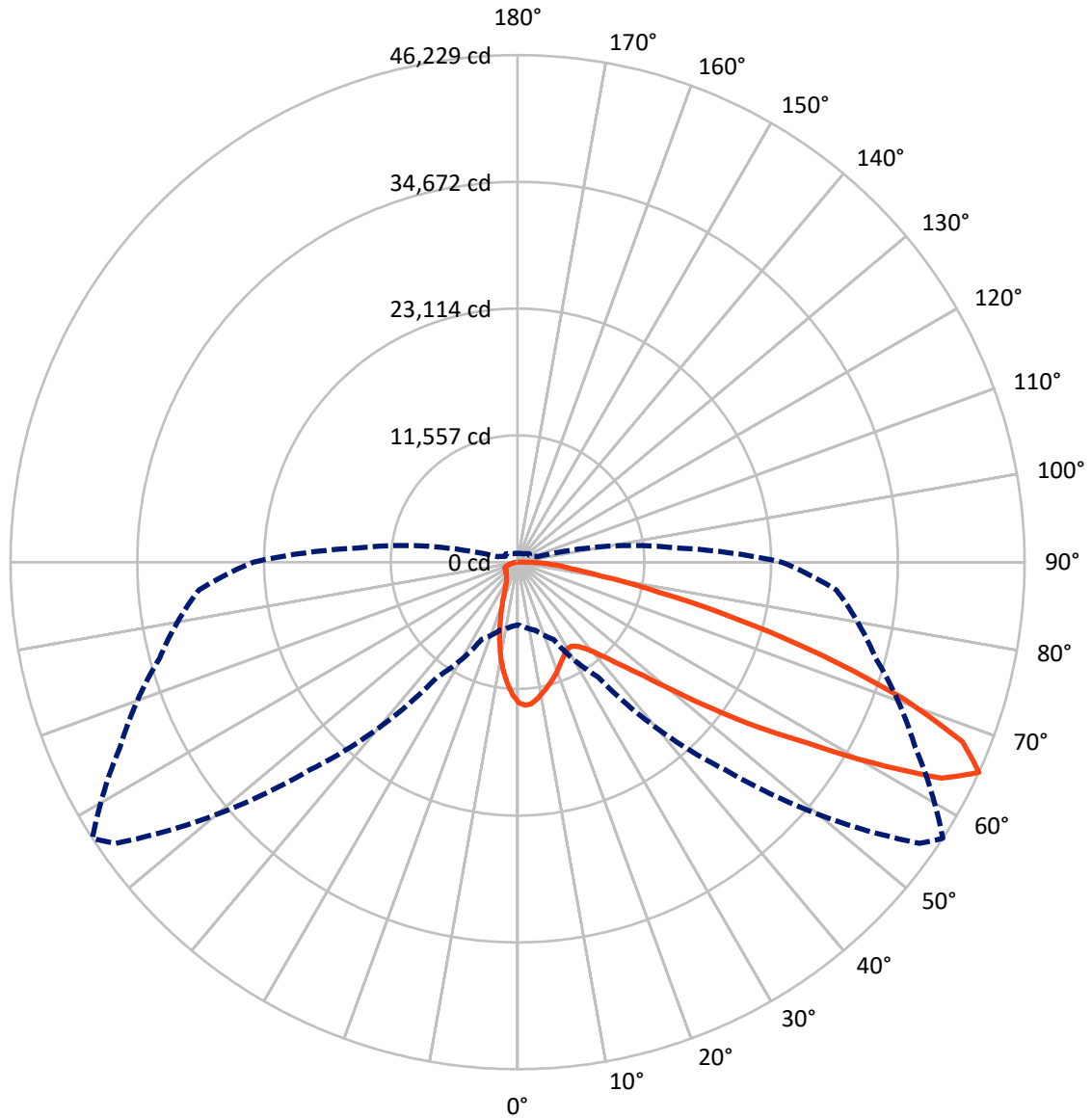
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.2 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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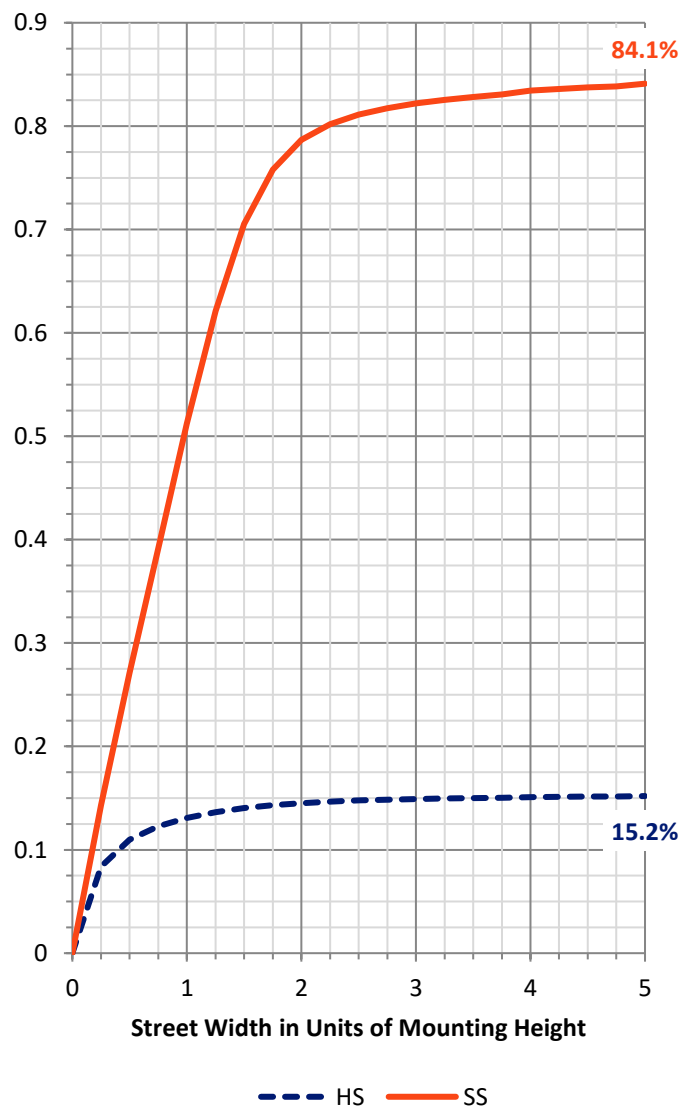
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7144.0	0.0	7144.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	39439.6	0.0	39439.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	46583.7	0.0	46583.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1072.7	2.3
10°-20°	2308.7	5.0
20°-30°	2984.9	6.4
30°-40°	4016.7	8.6
40°-50°	6404.8	13.7
50°-60°	11312.5	24.3
60°-70°	12445.2	26.7
70°-80°	5206.0	11.2
80°-90°	832.0	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°	46583.7	100.0
0°-180°	46583.7	100.0

Coefficient of Utilization



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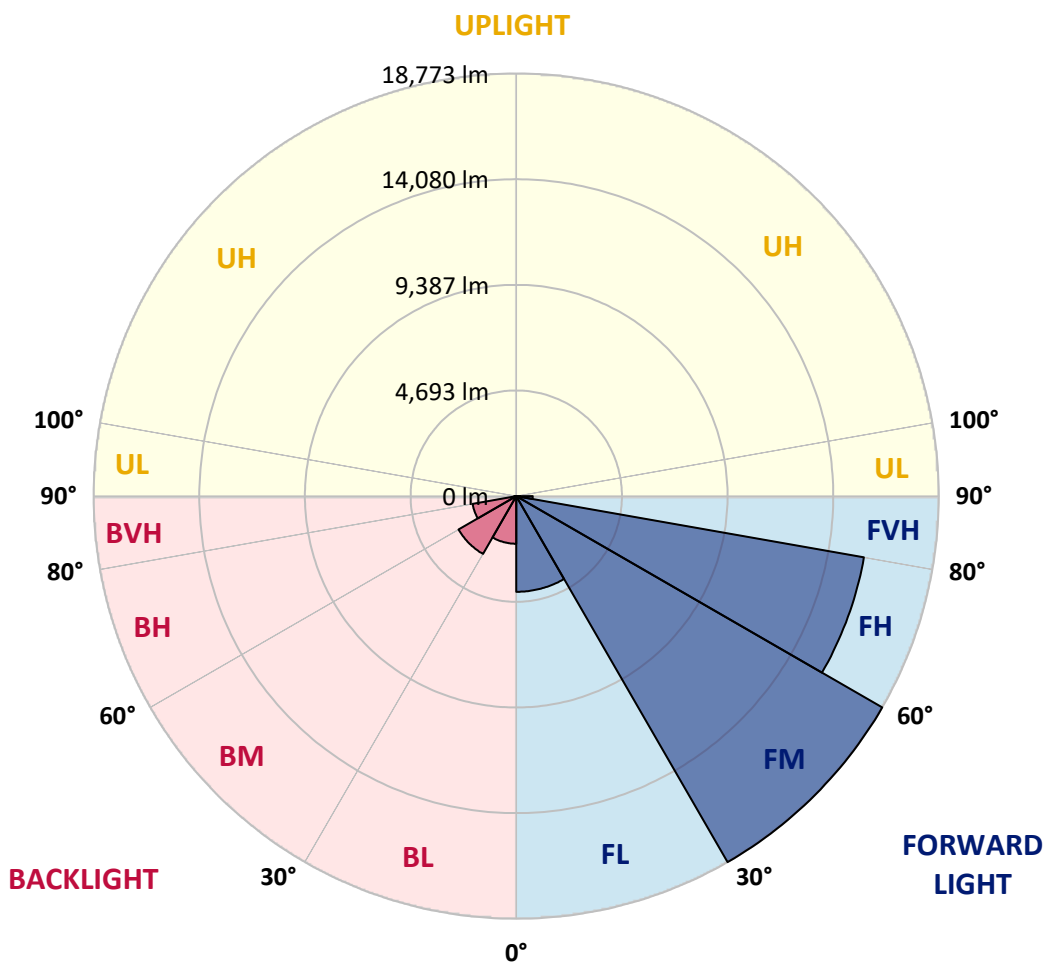
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4250.6	9.1			
FM (30°-60°)	18773.2	40.3			
FH (60°-80°)	15681.4	33.7			G5
FVH (80°-90°)	734.4	1.6			G4/750
BL (0°-30°)	2115.7	4.5	B3/2500		
BM (30°-60°)	2960.9	6.4	B3/5000		
BH (60°-80°)	1969.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	97.6	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8
2.5°	13155.8	13176.7	13176.7	13218.7	13077.2	13145.3	13134.8	13071.9	13092.9	12982.8	12872.7
5°	12783.6	12767.9	12851.8	12862.3	12972.3	13003.8	13030.0	12988.1	12998.5	12757.4	12652.6
7.5°	11829.7	11824.5	11966.0	12086.5	12317.2	12532.1	12673.6	12631.6	12689.3	12537.3	12291.0
10°	10697.6	10818.1	10964.9	11085.4	11510.0	11782.5	12149.4	12186.1	12406.3	12369.6	11924.1
12.5°	9848.5	9900.9	10011.0	10356.9	10744.8	11195.5	11719.6	11766.8	11981.7	12086.5	11698.7
15°	9151.4	9198.6	9340.1	9596.9	10031.9	10566.6	11232.2	11352.8	11782.5	11819.2	11405.2
17.5°	8643.0	8679.7	8774.0	9030.8	9387.2	10073.9	10702.8	10917.7	11483.8	11662.0	11101.2
20°	8443.8	8365.2	8417.6	8580.1	8936.5	9465.9	10278.3	10467.0	11190.3	11541.4	10812.9
22.5°	8354.7	8286.6	8318.0	8307.5	8590.6	8967.9	9822.3	10021.5	10912.5	11399.9	10556.1
25°	8422.8	8422.8	8391.4	8365.2	8396.6	8643.0	9329.6	9638.8	10540.3	11279.4	10294.0
27.5°	8789.7	8648.2	8663.9	8553.9	8522.4	8522.4	9109.5	9292.9	10419.8	11211.2	10079.1
30°	9025.6	9093.7	9099.0	8936.5	8774.0	8480.5	8905.0	9083.3	10320.2	11295.1	9953.3
32.5°	9628.4	9596.9	9507.8	9476.4	9235.2	8905.0	9004.6	9125.2	10262.6	11483.8	9990.0
35°	10231.1	10215.4	10220.6	10204.9	9953.3	9465.9	9271.9	9434.4	10367.4	11814.0	10115.8
37.5°	10854.8	10896.8	11075.0	11075.0	10807.7	10278.3	10021.5	9974.3	10750.0	12353.8	10414.6
40°	11478.5	11583.4	11808.7	12165.2	11787.8	11295.1	10881.0	10807.7	11211.2	13077.2	11132.6
42.5°	12076.1	12249.0	12694.5	13223.9	13098.1	12605.4	12055.1	11971.2	12159.9	14151.6	12133.7
45°	12841.3	12988.1	13690.4	14502.8	14675.8	14240.7	13596.0	13527.9	13517.4	15724.0	13512.2
47.5°	14004.9	14162.1	14864.5	15682.1	16216.7	16284.9	15561.6	15488.2	15236.6	17846.8	15530.1
50°	15462.0	15718.8	16311.1	17265.0	18040.7	18769.3	18564.8	18349.9	17857.3	20315.5	18087.9
52.5°	16526.0	16840.4	17642.4	18863.6	20231.6	21389.9	22123.7	22123.7	20991.6	23025.2	21164.6
55°	16809.0	16997.7	18009.3	19775.6	22118.5	25048.4	26584.1	26468.8	24723.4	25876.5	24744.4
57.5°	15682.1	15928.4	17154.9	19005.1	23109.1	28471.0	31013.0	31039.2	28801.2	29189.0	28277.1
60°	12579.2	12657.8	14104.5	16578.4	22155.2	31227.9	37061.5	37161.1	33439.8	32139.9	30074.8
62.5°	8695.4	8947.0	10037.2	12207.1	18355.2	30918.7	42895.2	43387.9	37155.9	33696.6	30357.9
65°	5723.5	5875.5	6457.3	7778.2	12778.4	26799.0	44708.7	46228.7	39996.7	33785.7	29173.3
67.5°	4151.1	4177.4	4350.3	5031.7	7678.6	19272.4	41611.0	43754.7	41060.7	33041.4	26395.4
70°	3354.5	3375.4	3438.3	3873.4	4958.3	12060.3	33937.7	37297.4	37868.7	29514.0	21258.9
72.5°	2725.5	2751.7	2830.3	3239.2	4088.2	6708.9	24817.8	28911.3	30803.4	21835.4	14130.7
75°	2143.7	2164.7	2353.4	2756.9	3841.9	4607.1	16463.1	20472.7	20729.5	12762.7	6614.6
77.5°	1467.6	1504.3	1734.9	2337.6	3616.5	4030.6	10262.6	13113.8	11766.8	4995.0	2274.7
80°	933.0	985.4	1121.6	1771.6	3197.2	3847.1	6384.0	7830.6	5152.2	1708.7	1095.4
82.5°	550.3	602.8	739.0	1147.9	2510.6	3569.4	4497.1	4900.7	2416.3	875.3	660.4
85°	304.0	340.7	445.5	691.9	1472.8	3171.0	3600.8	3516.9	1383.7	466.5	414.1
87.5°	99.6	115.3	162.5	277.8	608.0	1493.8	2159.4	2028.4	718.1	214.9	162.5
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°	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8	12809.8
2.5°	12799.4	12783.6	12547.8	12369.6	12065.6	11814.0	11714.4	11578.1	11572.9	11473.3	11447.1
5°	12490.1	12327.6	11966.0	11620.1	11080.2	10718.6	10388.3	10157.7	10063.4	9859.0	9811.8
7.5°	12091.8	11876.9	11321.3	10671.4	10037.2	9471.1	8957.5	8443.8	8155.5	8055.9	7945.9
10°	11677.7	11300.3	10477.4	9748.9	8863.1	7993.1	7185.9	6462.6	6069.5	5791.7	5671.1
12.5°	11347.5	10844.3	9796.1	8705.9	7537.1	6373.5	5435.3	4675.3	4229.8	4020.1	3925.8
15°	10975.4	10309.7	9051.8	7673.3	6216.2	4895.4	3978.2	3380.7	3202.5	3102.9	3087.2
17.5°	10582.3	9811.8	8244.6	6656.5	4926.9	3684.7	3092.4	2851.3	2772.7	2730.7	2709.8
20°	10215.4	9366.3	7416.5	5524.4	3857.6	2956.1	2678.3	2552.5	2547.3	2568.3	2563.0
22.5°	9696.5	8784.5	6598.9	4476.1	3081.9	2573.5	2395.3	2363.8	2395.3	2421.5	2432.0
25°	9403.0	8307.5	5686.9	3553.6	2547.3	2285.2	2227.6	2217.1	2264.3	2295.7	2290.5
27.5°	9099.0	7814.8	4837.8	2846.1	2232.8	2080.8	2070.3	2080.8	2128.0	2175.2	2169.9
30°	8863.1	7421.7	4041.1	2379.6	1991.7	1934.1	1923.6	1934.1	1960.3	1965.5	1965.5
32.5°	8669.2	6955.3	3364.9	2065.1	1845.0	1797.8	1808.3	1803.0	1808.3	1813.5	1818.7
35°	8553.9	6677.5	2809.4	1871.2	1724.4	1687.7	1682.5	1666.7	1672.0	1677.2	1672.0
37.5°	8800.2	6541.2	2369.1	1734.9	1640.5	1609.1	1598.6	1588.1	1572.4	1572.4	1572.4
40°	9172.4	6467.8	2101.8	1645.8	1577.6	1541.0	1509.5	1499.0	1499.0	1504.3	1509.5
42.5°	9911.4	6588.4	1918.3	1577.6	1499.0	1457.1	1425.6	1430.9	1446.6	1462.3	1451.9
45°	10980.6	6955.3	1834.5	1525.2	1451.9	1394.2	1373.2	1368.0	1383.7	1409.9	1430.9
47.5°	12380.1	7526.6	1803.0	1478.1	1420.4	1341.8	1315.6	1331.3	1352.3	1389.0	1373.2
50°	14670.5	8810.7	1829.2	1436.1	1373.2	1315.6	1284.1	1268.4	1284.1	1310.3	1320.8
52.5°	17663.3	11143.1	1928.8	1415.2	1341.8	1294.6	1242.2	1216.0	1231.7	1252.7	1252.7
55°	21243.2	14329.8	2206.6	1389.0	1289.4	1263.2	1205.5	1153.1	1163.6	1163.6	1158.3
57.5°	24398.5	16735.6	2536.8	1352.3	1257.9	1221.2	1147.9	1085.0	1074.5	1079.7	1085.0
60°	25813.6	17375.1	2694.1	1341.8	1257.9	1168.8	1069.2	1006.3	990.6	980.1	980.1
62.5°	25567.3	16269.1	2374.3	1294.6	1289.4	1126.9	995.9	927.7	906.8	885.8	891.0
65°	24078.7	14691.5	1871.2	1231.7	1294.6	1100.7	922.5	854.3	817.6	791.4	786.2
67.5°	21358.5	12542.5	1483.3	1184.5	1242.2	1053.5	859.6	781.0	749.5	723.3	712.8
70°	16709.4	9832.8	1289.4	1121.6	1116.4	938.2	786.2	718.1	670.9	639.4	639.4
72.5°	10833.9	6216.2	1105.9	995.9	964.4	786.2	681.4	639.4	602.8	576.5	576.5
75°	4905.9	2888.0	891.0	833.4	786.2	629.0	576.5	555.6	524.1	497.9	497.9
77.5°	1761.1	1231.7	665.7	655.2	587.0	487.4	466.5	450.8	429.8	403.6	403.6
80°	985.4	781.0	497.9	477.0	408.8	361.7	335.4	335.4	325.0	309.2	304.0
82.5°	623.7	508.4	366.9	319.7	267.3	241.1	230.6	225.4	220.1	199.2	193.9
85°	393.1	345.9	241.1	188.7	157.2	120.6	115.3	110.1	99.6	89.1	89.1
87.5°	178.2	199.2	94.3	57.7	41.9	26.2	15.7	5.2	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)