

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: P480550

Luminaire Tested: **IFLD-S-SA6A-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480550
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

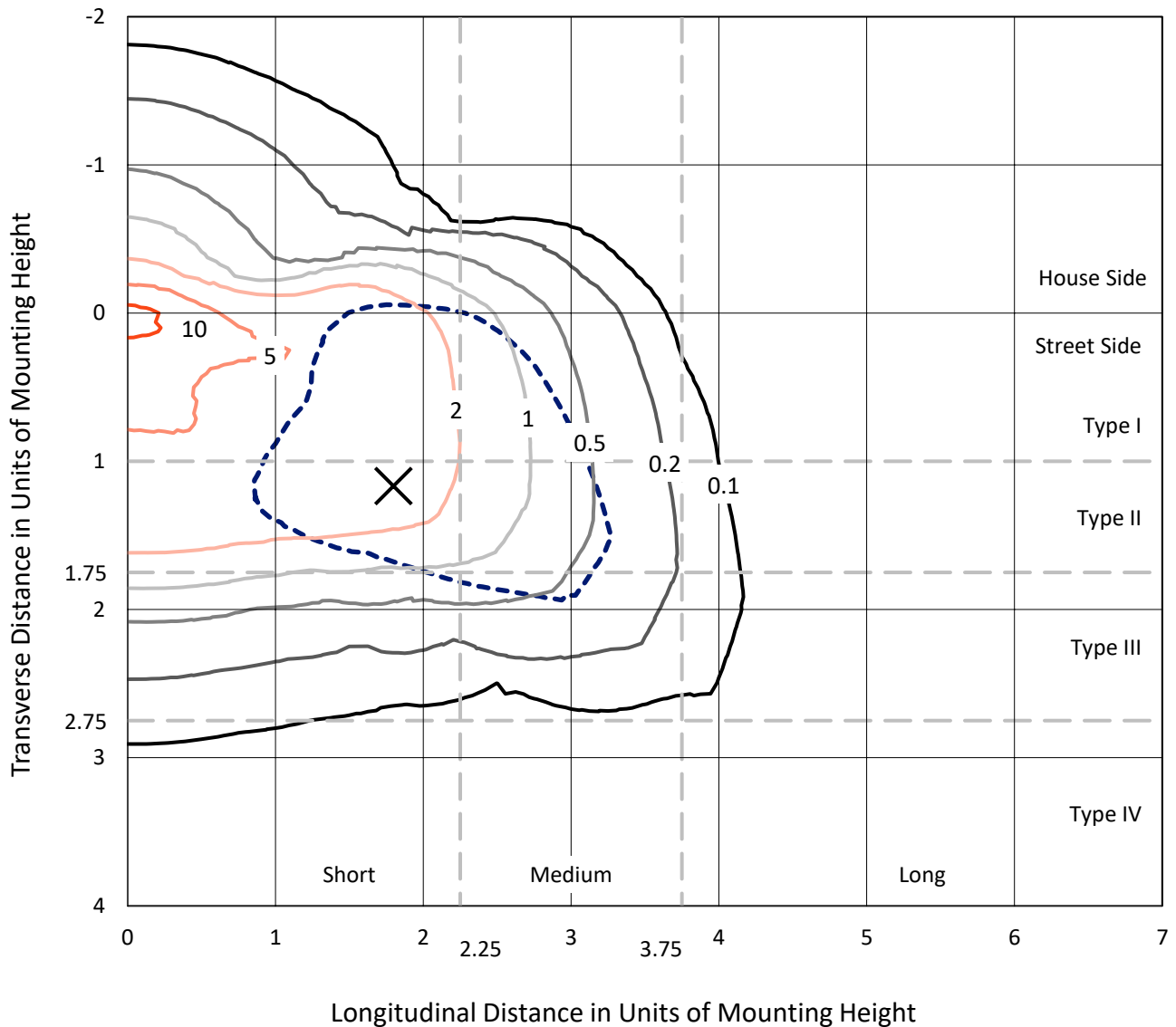
Lumens per Lamp: N/A
Luminaire Lumens: 27241.5 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

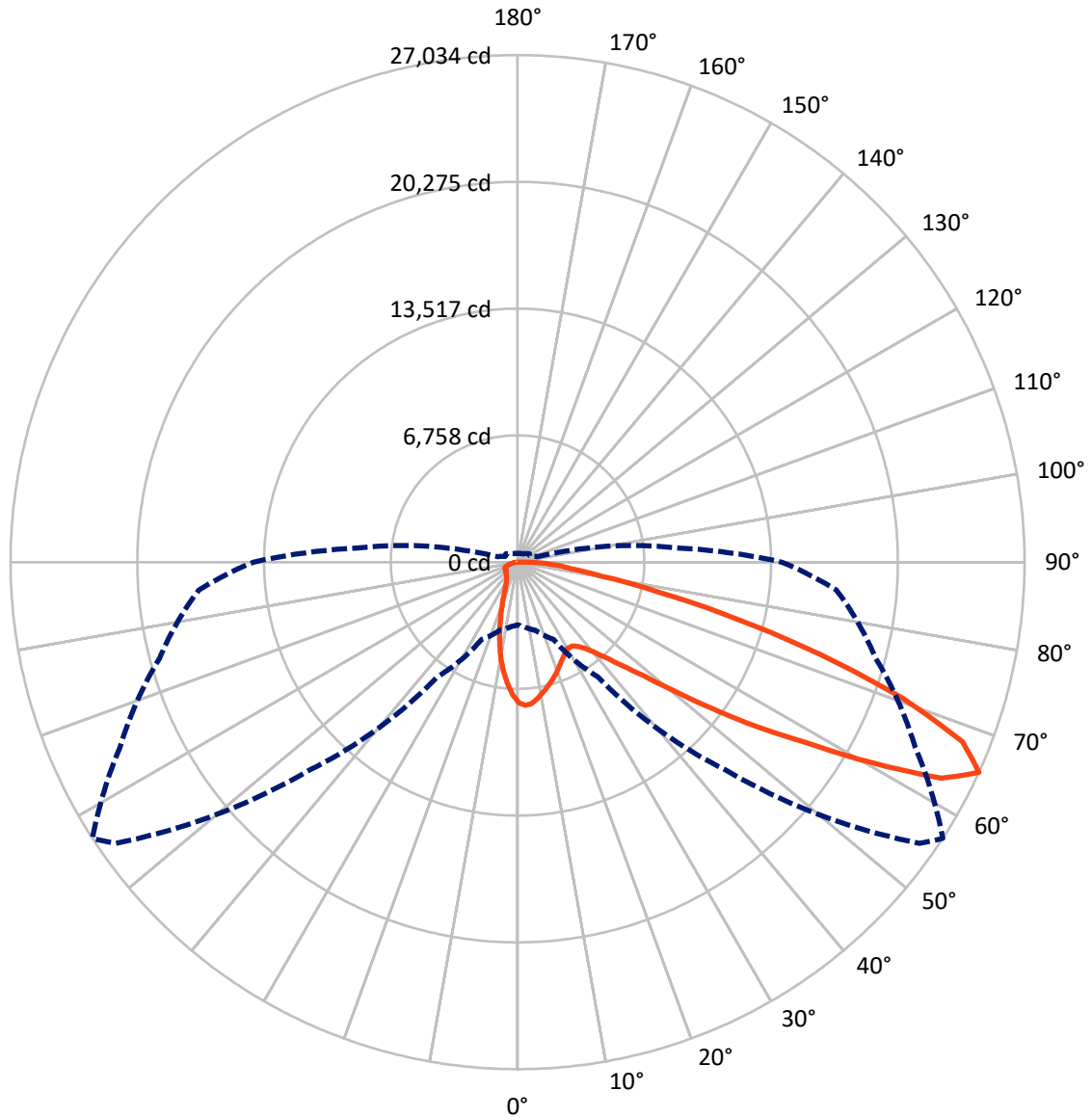
× Max cd
 - - - 1/2 Max cd



Based on 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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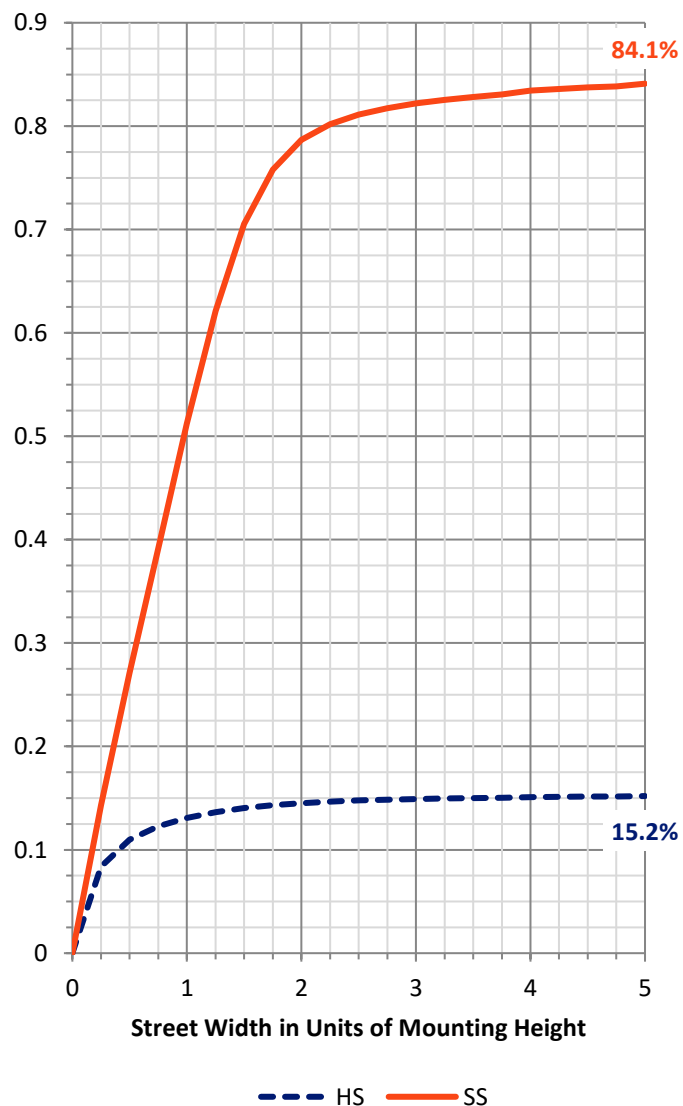
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4177.8	0.0	4177.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23063.8	0.0	23063.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	27241.5	0.0	27241.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.3	2.3
10°-20°	1350.1	5.0
20°-30°	1745.5	6.4
30°-40°	2348.9	8.6
40°-50°	3745.5	13.7
50°-60°	6615.4	24.3
60°-70°	7277.8	26.7
70°-80°	3044.4	11.2
80°-90°	486.6	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°	27241.5	100.0
0°-180°	27241.5	100.0

Coefficient of Utilization



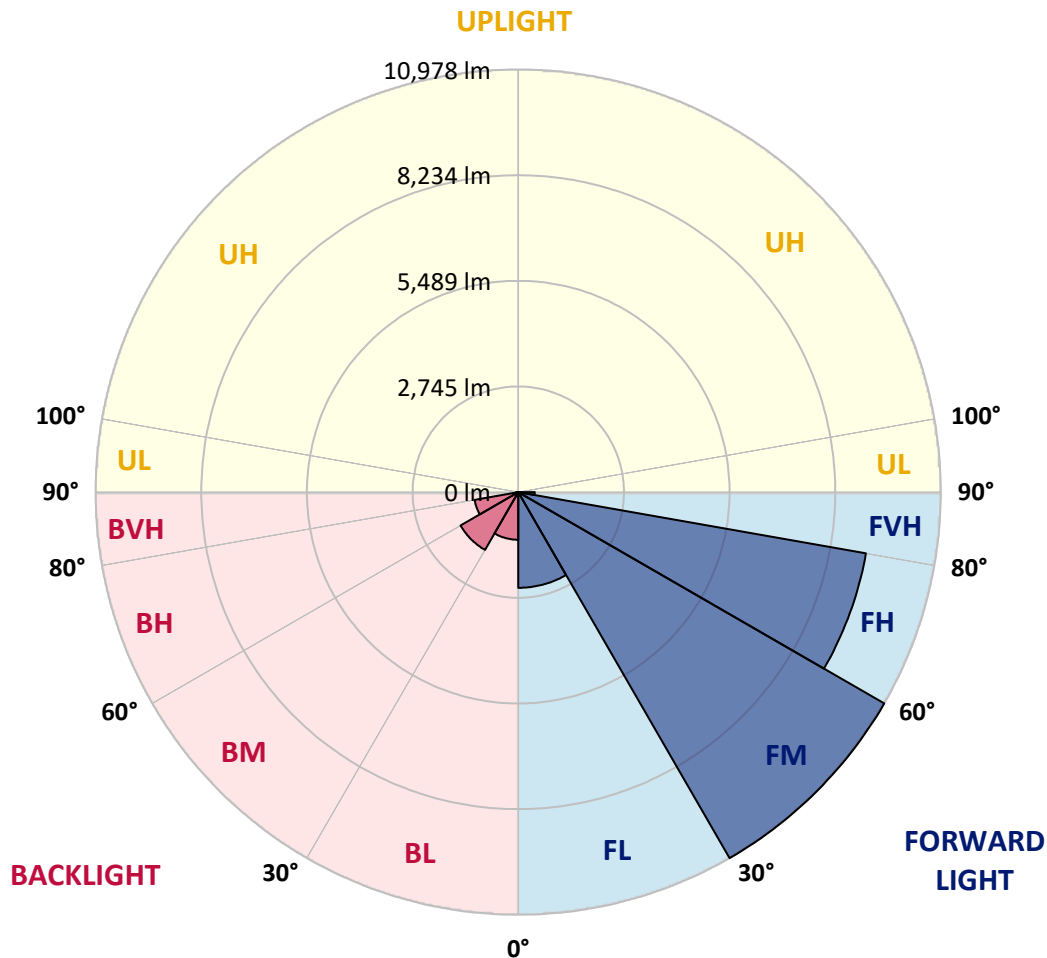
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2485.7	9.1			
FM (30°-60°)	10978.3	40.3			
FH (60°-80°)	9170.3	33.7			G4/12000
FVH (80°-90°)	429.5	1.6			G3/500
BL (0°-30°)	1237.2	4.5	B3/2500		
BM (30°-60°)	1731.5	6.4	B2/2500		
BH (60°-80°)	1151.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	57.1	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°	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0
2.5°	7693.3	7705.6	7705.6	7730.1	7647.4	7687.2	7681.1	7644.3	7656.6	7592.2	7527.8
5°	7475.7	7466.5	7515.6	7521.7	7586.1	7604.4	7619.8	7595.2	7601.4	7460.4	7399.1
7.5°	6917.9	6914.8	6997.6	7068.1	7202.9	7328.6	7411.3	7386.8	7420.5	7331.7	7187.6
10°	6255.8	6326.3	6412.1	6482.6	6730.9	6890.3	7104.8	7126.3	7255.0	7233.6	6973.0
12.5°	5759.3	5789.9	5854.3	6056.6	6283.4	6547.0	6853.5	6881.1	7006.8	7068.1	6841.2
15°	5351.6	5379.2	5462.0	5612.1	5866.5	6179.2	6568.5	6638.9	6890.3	6911.7	6669.6
17.5°	5054.3	5075.8	5130.9	5281.1	5489.5	5891.1	6258.9	6384.5	6715.6	6819.8	6491.8
20°	4937.8	4891.9	4922.5	5017.5	5225.9	5535.5	6010.6	6120.9	6543.9	6749.3	6323.2
22.5°	4885.7	4845.9	4864.3	4858.1	5023.7	5244.3	5743.9	5860.4	6381.5	6666.5	6173.1
25°	4925.6	4925.6	4907.2	4891.9	4910.2	5054.3	5455.8	5636.7	6163.9	6596.0	6019.8
27.5°	5140.1	5057.4	5066.6	5002.2	4983.8	4983.8	5327.1	5434.4	6093.4	6556.2	5894.1
30°	5278.1	5317.9	5321.0	5225.9	5130.9	4959.3	5207.6	5311.8	6035.1	6605.2	5820.6
32.5°	5630.5	5612.1	5560.0	5541.7	5400.7	5207.6	5265.8	5336.3	6001.4	6715.6	5842.0
35°	5983.0	5973.8	5976.9	5967.7	5820.6	5535.5	5422.1	5517.1	6062.7	6908.7	5915.6
37.5°	6347.8	6372.3	6476.5	6476.5	6320.2	6010.6	5860.4	5832.8	6286.5	7224.4	6090.3
40°	6712.5	6773.8	6905.6	7114.0	6893.3	6605.2	6363.1	6320.2	6556.2	7647.4	6510.2
42.5°	7061.9	7163.1	7423.6	7733.2	7659.6	7371.5	7049.7	7000.6	7111.0	8275.7	7095.6
45°	7509.4	7595.2	8006.0	8481.1	8582.2	8327.8	7950.8	7911.0	7904.8	9195.2	7901.8
47.5°	8189.9	8281.8	8692.5	9170.7	9483.3	9523.2	9100.2	9057.3	8910.2	10436.6	9081.8
50°	9042.0	9192.2	9538.5	10096.3	10550.0	10976.0	10856.5	10730.8	10442.7	11880.2	10577.6
52.5°	9664.2	9848.1	10317.0	11031.2	11831.2	12508.6	12937.7	12937.7	12275.6	13464.9	12376.8
55°	9829.7	9940.0	10531.6	11564.5	12934.6	14648.0	15546.0	15478.6	14457.9	15132.3	14470.2
57.5°	9170.7	9314.8	10032.0	11114.0	13513.9	16649.5	18136.0	18151.4	16842.6	17069.4	16536.1
60°	7356.2	7402.1	8248.1	9694.8	12956.1	18261.7	21673.1	21731.4	19555.2	18795.0	17587.4
62.5°	5085.0	5232.1	5869.6	7138.6	10733.9	18080.9	25084.6	25372.7	21728.3	19705.4	17752.9
65°	3347.1	3435.9	3776.2	4548.6	7472.6	15671.7	26145.1	27033.9	23389.6	19757.5	17060.2
67.5°	2427.5	2442.9	2544.0	2942.5	4490.3	11270.3	24333.6	25587.2	24011.8	19322.2	15435.7
70°	1961.6	1973.9	2010.7	2265.1	2899.6	7052.7	19846.3	21811.1	22145.1	17259.4	12431.9
72.5°	1593.8	1609.2	1655.1	1894.2	2390.8	3923.3	14513.1	16906.9	18013.4	12769.1	8263.4
75°	1253.6	1265.9	1376.2	1612.2	2246.7	2694.2	9627.4	11972.2	12122.4	7463.5	3868.1
77.5°	858.2	879.7	1014.5	1367.0	2114.9	2357.0	6001.4	7668.8	6881.1	2921.0	1330.2
80°	545.6	576.2	655.9	1036.0	1869.7	2249.8	3733.3	4579.2	3013.0	999.2	640.6
82.5°	321.8	352.5	432.2	671.3	1468.2	2087.3	2629.8	2865.8	1413.0	511.9	386.2
85°	177.8	199.2	260.5	404.6	861.3	1854.4	2105.7	2056.7	809.2	272.8	242.1
87.5°	58.2	67.4	95.0	162.4	355.5	873.5	1262.8	1186.2	419.9	125.7	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°	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0	7491.0
2.5°	7484.9	7475.7	7337.8	7233.6	7055.8	6908.7	6850.4	6770.7	6767.7	6709.4	6694.1
5°	7304.1	7209.1	6997.6	6795.3	6479.6	6268.1	6075.0	5940.1	5884.9	5765.4	5737.8
7.5°	7071.1	6945.5	6620.6	6240.5	5869.6	5538.6	5238.2	4937.8	4769.3	4711.0	4646.6
10°	6829.0	6608.3	6127.1	5701.0	5183.0	4674.2	4202.2	3779.2	3549.4	3386.9	3316.4
12.5°	6635.9	6341.6	5728.6	5091.1	4407.6	3727.1	3178.5	2734.0	2473.5	2350.9	2295.7
15°	6418.3	6029.0	5293.4	4487.3	3635.2	2862.8	2326.4	1977.0	1872.8	1814.5	1805.3
17.5°	6188.4	5737.8	4821.4	3892.6	2881.2	2154.7	1808.4	1667.4	1621.4	1596.9	1584.6
20°	5973.8	5477.3	4337.1	3230.6	2255.9	1728.7	1566.3	1492.7	1489.6	1501.9	1498.8
22.5°	5670.4	5137.1	3858.9	2617.6	1802.3	1505.0	1400.7	1382.3	1400.7	1416.1	1422.2
25°	5498.7	4858.1	3325.6	2078.1	1489.6	1336.4	1302.7	1296.5	1324.1	1342.5	1339.4
27.5°	5321.0	4570.0	2829.1	1664.3	1305.7	1216.8	1210.7	1216.8	1244.4	1272.0	1268.9
30°	5183.0	4340.1	2363.2	1391.5	1164.7	1131.0	1124.9	1131.0	1146.3	1149.4	1149.4
32.5°	5069.6	4067.4	1967.8	1207.6	1078.9	1051.3	1057.4	1054.4	1057.4	1060.5	1063.6
35°	5002.2	3904.9	1642.9	1094.2	1008.4	987.0	983.9	974.7	977.8	980.8	977.8
37.5°	5146.3	3825.2	1385.4	1014.5	959.4	941.0	934.8	928.7	919.5	919.5	919.5
40°	5363.9	3782.3	1229.1	962.4	922.6	901.1	882.7	876.6	876.6	879.7	882.7
42.5°	5796.1	3852.8	1121.8	922.6	876.6	852.1	833.7	836.8	846.0	855.2	849.0
45°	6421.3	4067.4	1072.8	891.9	849.0	815.3	803.0	800.0	809.2	824.5	836.8
47.5°	7239.7	4401.4	1054.4	864.4	830.6	784.7	769.3	778.5	790.8	812.2	803.0
50°	8579.1	5152.4	1069.7	839.8	803.0	769.3	750.9	741.7	750.9	766.3	772.4
52.5°	10329.3	6516.3	1127.9	827.6	784.7	757.1	726.4	711.1	720.3	732.6	732.6
55°	12422.7	8379.9	1290.4	812.2	754.0	738.7	705.0	674.3	680.4	680.4	677.4
57.5°	14267.9	9786.8	1483.5	790.8	735.6	714.2	671.3	634.5	628.3	631.4	634.5
60°	15095.5	10160.7	1575.4	784.7	735.6	683.5	625.3	588.5	579.3	573.2	573.2
62.5°	14951.4	9514.0	1388.5	757.1	754.0	659.0	582.4	542.5	530.3	518.0	521.1
65°	14080.9	8591.4	1094.2	720.3	757.1	643.7	539.5	499.6	478.2	462.8	459.8
67.5°	12490.2	7334.7	867.4	692.7	726.4	616.1	502.7	456.7	438.3	423.0	416.8
70°	9771.5	5750.1	754.0	655.9	652.9	548.6	459.8	419.9	392.3	373.9	373.9
72.5°	6335.5	3635.2	646.7	582.4	564.0	459.8	398.5	373.9	352.5	337.2	337.2
75°	2868.9	1688.9	521.1	487.3	459.8	367.8	337.2	324.9	306.5	291.2	291.2
77.5°	1029.9	720.3	389.3	383.1	343.3	285.1	272.8	263.6	251.3	236.0	236.0
80°	576.2	456.7	291.2	278.9	239.1	211.5	196.2	196.2	190.0	180.8	177.8
82.5°	364.7	297.3	214.6	187.0	156.3	141.0	134.9	131.8	128.7	116.5	113.4
85°	229.9	202.3	141.0	110.3	92.0	70.5	67.4	64.4	58.2	52.1	52.1
87.5°	104.2	116.5	55.2	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)