

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: P480528

Luminaire Tested: **IFLD-L-SA8C-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480528
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

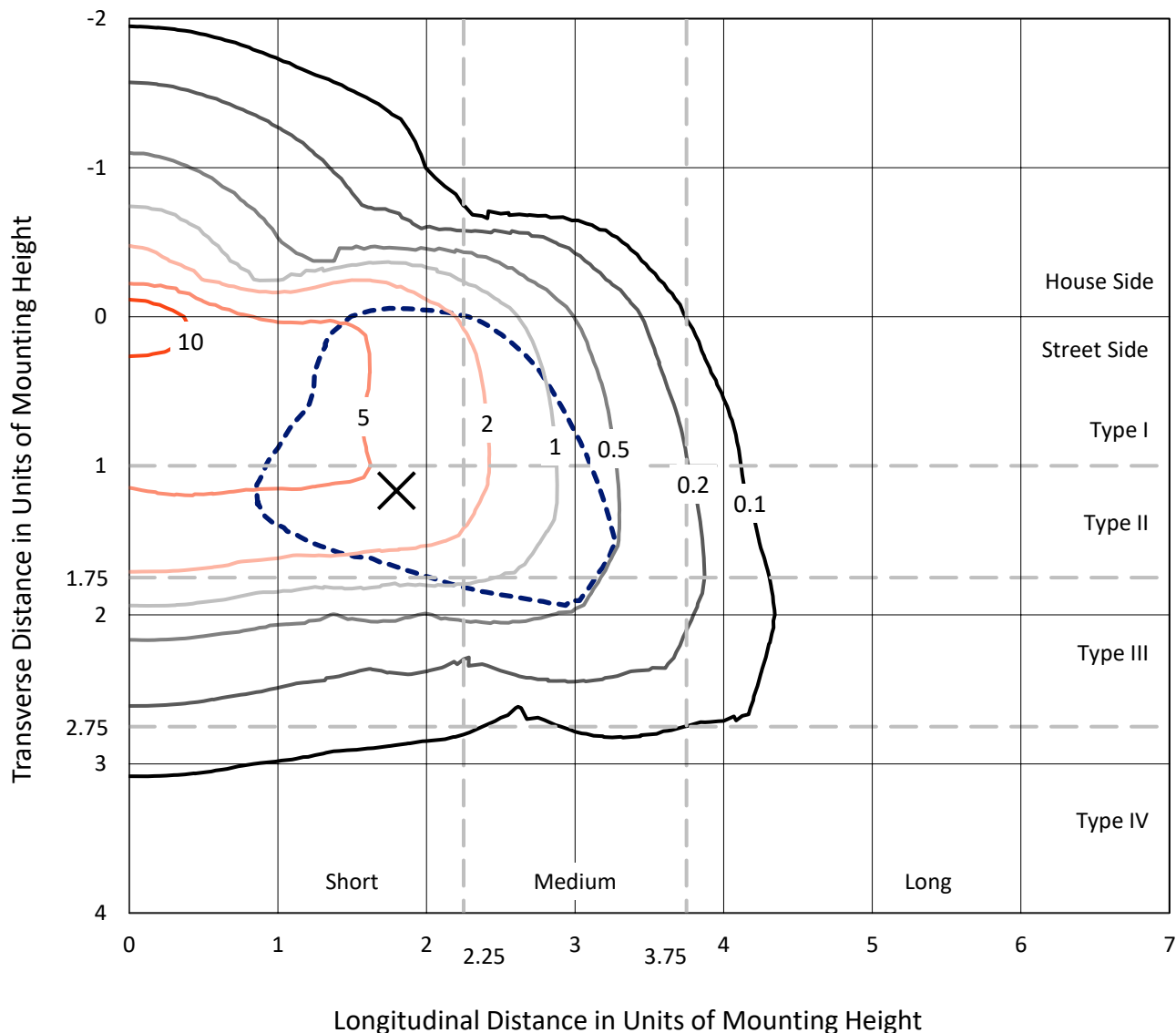
Lumens per Lamp: N/A
Luminaire Lumens: 49991.4 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

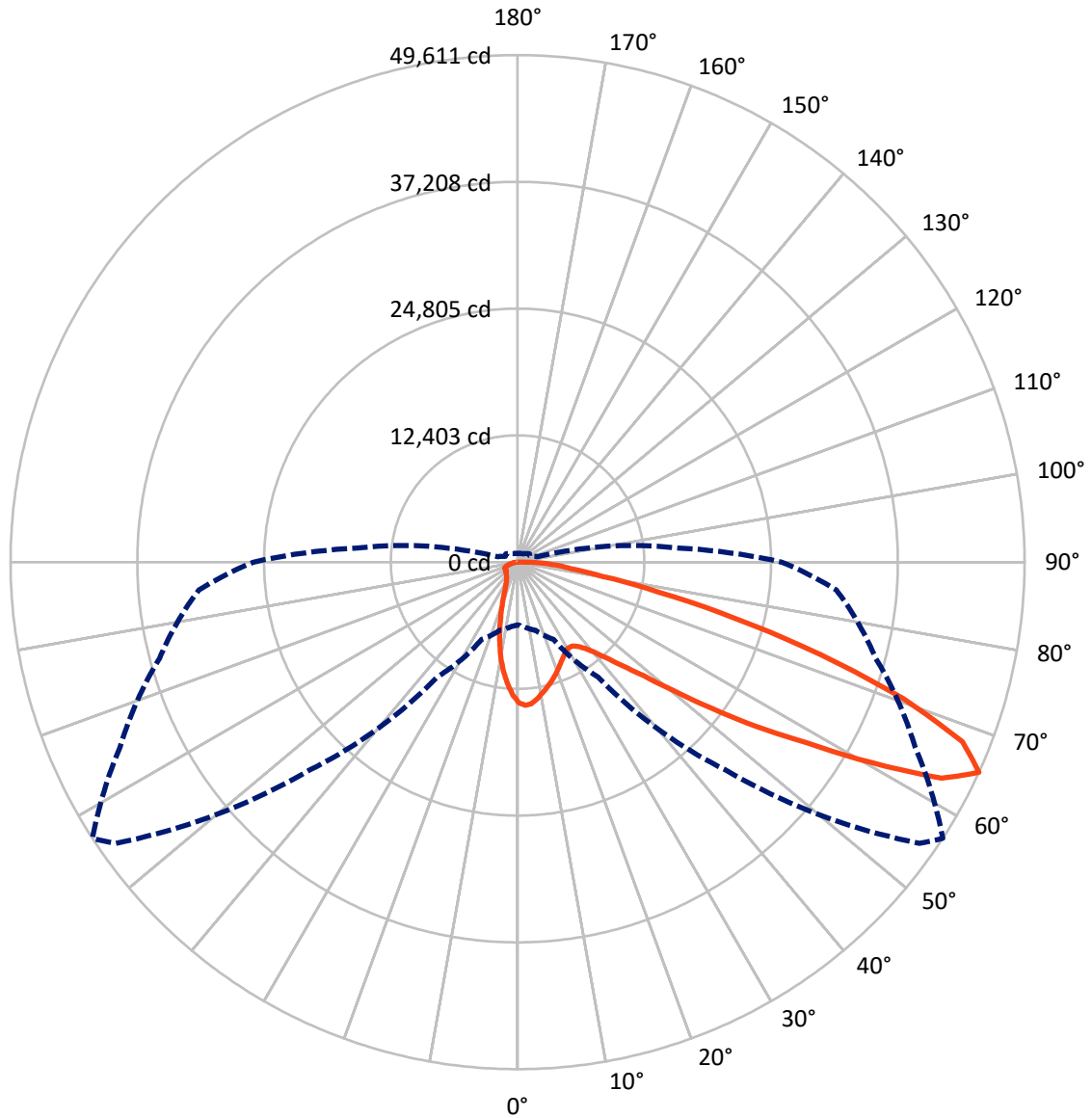
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 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	7666.7	0.0	7666.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	42324.8	0.0	42324.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	49991.4	0.0	49991.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1151.2	2.3
10°-20°	2477.6	5.0
20°-30°	3203.3	6.4
30°-40°	4310.6	8.6
40°-50°	6873.4	13.7
50°-60°	12140.0	24.3
60°-70°	13355.7	26.7
70°-80°	5586.9	11.2
80°-90°	892.9	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°	49991.4	100.0
0°-180°	49991.4	100.0

Coefficient of Utilization



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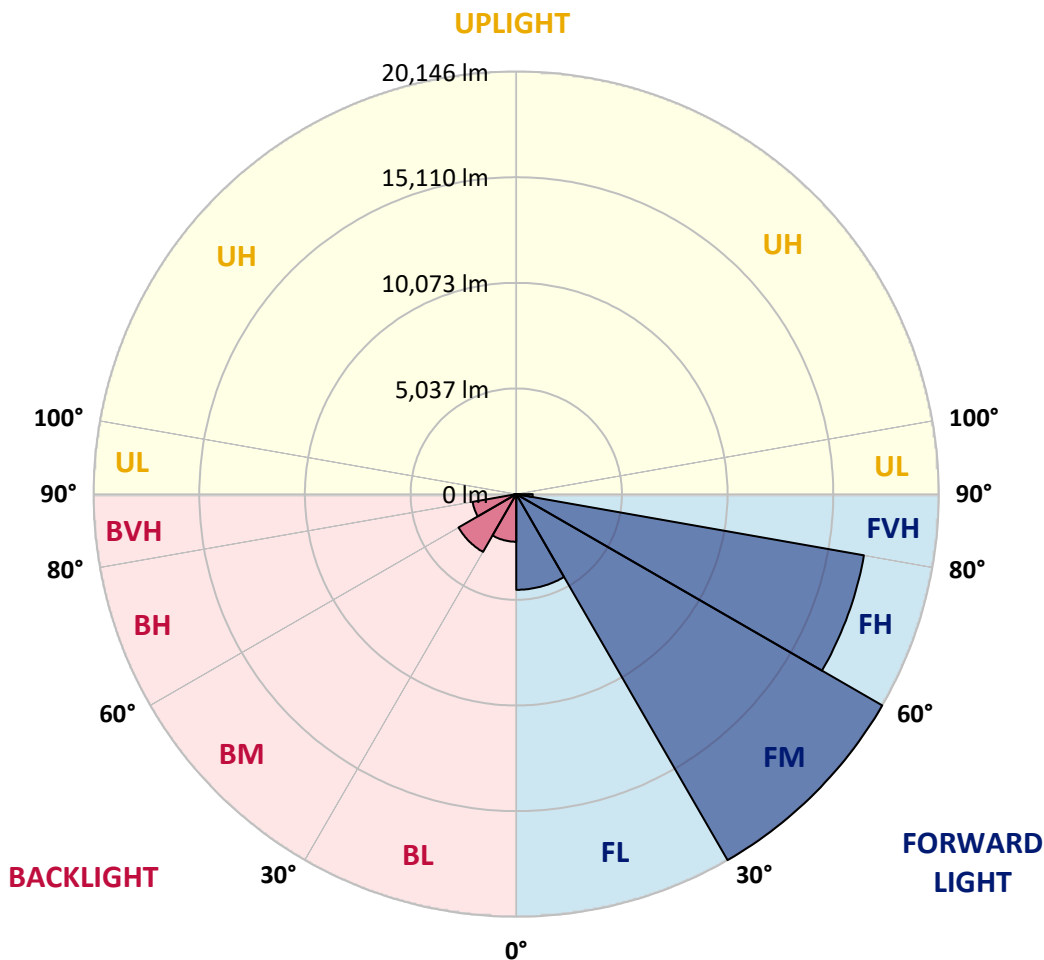
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4561.5	9.1			
FM (30°-60°)	20146.5	40.3			
FH (60°-80°)	16828.6	33.7			G5
FVH (80°-90°)	788.1	1.6			G5
BL (0°-30°)	2270.5	4.5	B3/2500		
BM (30°-60°)	3177.5	6.4	B3/5000		
BH (60°-80°)	2113.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	104.7	0.2			G2/225
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°	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9
2.5°	14118.2	14140.7	14140.7	14185.7	14033.8	14106.9	14095.7	14028.2	14050.7	13932.6	13814.4
5°	13718.8	13701.9	13791.9	13803.2	13921.3	13955.1	13983.2	13938.2	13949.4	13690.7	13578.2
7.5°	12695.1	12689.5	12841.4	12970.7	13218.2	13448.8	13600.7	13555.7	13617.6	13454.5	13190.1
10°	11480.2	11609.5	11767.0	11896.4	12352.0	12644.5	13038.2	13077.6	13313.8	13274.5	12796.4
12.5°	10568.9	10625.2	10743.3	11114.5	11530.8	12014.5	12577.0	12627.6	12858.2	12970.7	12554.5
15°	9820.9	9871.5	10023.3	10299.0	10765.8	11339.5	12053.9	12183.3	12644.5	12683.9	12239.5
17.5°	9275.2	9314.6	9415.9	9691.5	10074.0	10810.8	11485.8	11716.4	12323.9	12515.1	11913.3
20°	9061.5	8977.1	9033.4	9207.8	9590.2	10158.3	11030.2	11232.7	12008.9	12385.7	11603.9
22.5°	8965.9	8892.8	8926.5	8915.3	9219.0	9624.0	10540.8	10754.6	11710.8	12233.9	11328.3
25°	9039.0	9039.0	9005.3	8977.1	9010.9	9275.2	10012.1	10344.0	11311.4	12104.5	11047.1
27.5°	9432.7	9280.9	9297.7	9179.6	9145.9	9145.9	9775.9	9972.7	11182.0	12031.4	10816.4
30°	9685.9	9759.0	9764.6	9590.2	9415.9	9100.9	9556.5	9747.7	11075.2	12121.4	10681.4
32.5°	10332.7	10299.0	10203.3	10169.6	9910.8	9556.5	9663.4	9792.7	11013.3	12323.9	10720.8
35°	10979.6	10962.7	10968.3	10951.4	10681.4	10158.3	9950.2	10124.6	11125.8	12678.2	10855.8
37.5°	11648.9	11693.9	11885.1	11885.1	11598.3	11030.2	10754.6	10703.9	11536.4	13257.6	11176.4
40°	12318.2	12430.7	12672.6	13055.1	12650.1	12121.4	11677.0	11598.3	12031.4	14033.8	11947.0
42.5°	12959.5	13145.1	13623.2	14191.3	14056.3	13527.6	12937.0	12847.0	13049.5	15186.9	13021.3
45°	13780.7	13938.2	14691.9	15563.7	15749.4	15282.5	14590.7	14517.5	14506.3	16874.3	14500.7
47.5°	15029.4	15198.1	15951.9	16829.3	17403.0	17476.2	16699.9	16621.2	16351.2	19152.3	16666.2
50°	16593.1	16868.7	17504.3	18528.0	19360.5	20142.3	19922.9	19692.3	19163.6	21801.6	19411.1
52.5°	17734.9	18072.4	18933.0	20243.6	21711.6	22954.7	23742.2	23742.2	22527.2	24709.6	22712.8
55°	18038.6	18241.1	19326.7	21222.3	23736.5	26880.8	28528.8	28405.1	26532.0	27769.5	26554.5
57.5°	16829.3	17093.7	18409.9	20395.4	24799.6	30553.8	33281.8	33309.9	30908.1	31324.4	30345.6
60°	13499.5	13583.8	15136.3	17791.2	23775.9	33512.4	39772.8	39879.6	35886.0	34491.1	32274.9
62.5°	9331.5	9601.5	10771.4	13100.1	19697.9	33180.5	46033.1	46561.9	39874.0	36161.7	32578.7
65°	6142.3	6305.4	6929.7	8347.2	13713.2	28759.5	47979.3	49610.5	42922.6	36257.3	31307.5
67.5°	4454.8	4482.9	4668.6	5399.8	8240.3	20682.3	44655.1	46955.6	44064.5	35458.6	28326.3
70°	3599.9	3622.4	3689.9	4156.7	5321.0	12942.6	36420.4	40025.9	40639.0	31673.1	22814.1
72.5°	2924.9	2953.0	3037.4	3476.1	4387.3	7199.7	26633.3	31026.2	33056.8	23432.8	15164.4
75°	2300.5	2323.0	2525.5	2958.6	4123.0	4944.2	17667.4	21970.4	22246.0	13696.3	7098.5
77.5°	1574.9	1614.3	1861.8	2508.6	3881.1	4325.4	11013.3	14073.2	12627.6	5360.4	2441.2
80°	1001.2	1057.5	1203.7	1901.2	3431.1	4128.6	6851.0	8403.4	5529.2	1833.7	1175.6
82.5°	590.6	646.8	793.1	1231.8	2694.3	3830.5	4826.1	5259.2	2593.0	939.3	708.7
85°	326.2	365.6	478.1	742.5	1580.6	3403.0	3864.2	3774.2	1484.9	500.6	444.4
87.5°	106.9	123.7	174.4	298.1	652.5	1603.1	2317.4	2176.8	770.6	230.6	174.4
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°	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9	13746.9
2.5°	13735.7	13718.8	13465.7	13274.5	12948.2	12678.2	12571.4	12425.1	12419.5	12312.6	12284.5
5°	13403.8	13229.5	12841.4	12470.1	11890.8	11502.7	11148.3	10900.8	10799.6	10580.2	10529.6
7.5°	12976.3	12745.7	12149.5	11452.0	10771.4	10164.0	9612.7	9061.5	8752.1	8645.3	8527.2
10°	12532.0	12127.0	11243.9	10462.1	9511.5	8577.8	7711.6	6935.3	6513.5	6215.4	6086.0
12.5°	12177.6	11637.7	10512.7	9342.7	8088.4	6839.7	5832.9	5017.3	4539.2	4314.2	4213.0
15°	11778.3	11063.9	9714.0	8234.7	6671.0	5253.5	4269.2	3628.0	3436.7	3329.9	3313.0
17.5°	11356.4	10529.6	8847.8	7143.5	5287.3	3954.2	3318.6	3059.9	2975.5	2930.5	2908.0
20°	10962.7	10051.5	7959.1	5928.5	4139.8	3172.4	2874.3	2739.3	2733.6	2756.1	2750.5
22.5°	10405.8	9427.1	7081.6	4803.6	3307.4	2761.8	2570.5	2536.8	2570.5	2598.6	2609.9
25°	10090.8	8915.3	6102.9	3813.6	2733.6	2452.4	2390.5	2379.3	2429.9	2463.6	2458.0
27.5°	9764.6	8386.5	5191.7	3054.3	2396.2	2233.0	2221.8	2233.0	2283.7	2334.3	2328.7
30°	9511.5	7964.7	4336.7	2553.6	2137.4	2075.5	2064.3	2075.5	2103.7	2109.3	2109.3
32.5°	9303.4	7464.1	3611.1	2216.2	1979.9	1929.3	1940.5	1934.9	1940.5	1946.2	1951.8
35°	9179.6	7166.0	3014.9	2008.0	1850.5	1811.2	1805.6	1788.7	1794.3	1799.9	1794.3
37.5°	9444.0	7019.7	2542.4	1861.8	1760.6	1726.8	1715.6	1704.3	1687.4	1687.4	1687.4
40°	9843.4	6941.0	2255.5	1766.2	1693.1	1653.7	1619.9	1608.7	1608.7	1614.3	1619.9
42.5°	10636.4	7070.3	2058.7	1693.1	1608.7	1563.7	1529.9	1535.6	1552.4	1569.3	1558.1
45°	11783.9	7464.1	1968.7	1636.8	1558.1	1496.2	1473.7	1468.1	1484.9	1513.1	1535.6
47.5°	13285.7	8077.2	1934.9	1586.2	1524.3	1439.9	1411.8	1428.7	1451.2	1490.6	1473.7
50°	15743.7	9455.2	1963.0	1541.2	1473.7	1411.8	1378.1	1361.2	1378.1	1406.2	1417.4
52.5°	18955.5	11958.3	2069.9	1518.7	1439.9	1389.3	1333.1	1304.9	1321.8	1344.3	1344.3
55°	22797.2	15378.1	2368.0	1490.6	1383.7	1355.6	1293.7	1237.4	1248.7	1248.7	1243.1
57.5°	26183.3	17959.9	2722.4	1451.2	1349.9	1310.6	1231.8	1164.3	1153.1	1158.7	1164.3
60°	27702.0	18646.1	2891.1	1439.9	1349.9	1254.3	1147.5	1080.0	1063.1	1051.8	1051.8
62.5°	27437.6	17459.3	2548.0	1389.3	1383.7	1209.3	1068.7	995.6	973.1	950.6	956.2
65°	25840.2	15766.2	2008.0	1321.8	1389.3	1181.2	990.0	916.8	877.5	849.3	843.7
67.5°	22920.9	13460.1	1591.8	1271.2	1333.1	1130.6	922.5	838.1	804.3	776.2	765.0
70°	17931.8	10552.1	1383.7	1203.7	1198.1	1006.8	843.7	770.6	720.0	686.2	686.2
72.5°	11626.4	6671.0	1186.8	1068.7	1035.0	843.7	731.2	686.2	646.8	618.7	618.7
75°	5264.8	3099.2	956.2	894.3	843.7	675.0	618.7	596.2	562.5	534.4	534.4
77.5°	1889.9	1321.8	714.3	703.1	630.0	523.1	500.6	483.7	461.2	433.1	433.1
80°	1057.5	838.1	534.4	511.9	438.7	388.1	360.0	360.0	348.7	331.9	326.2
82.5°	669.3	545.6	393.7	343.1	286.9	258.7	247.5	241.9	236.2	213.7	208.1
85°	421.9	371.2	258.7	202.5	168.7	129.4	123.7	118.1	106.9	95.6	95.6
87.5°	191.2	213.7	101.2	61.9	45.0	28.1	16.9	5.6	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)