

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: P480450

Luminaire Tested: **IFLD-L-SA8C-730-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480450  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

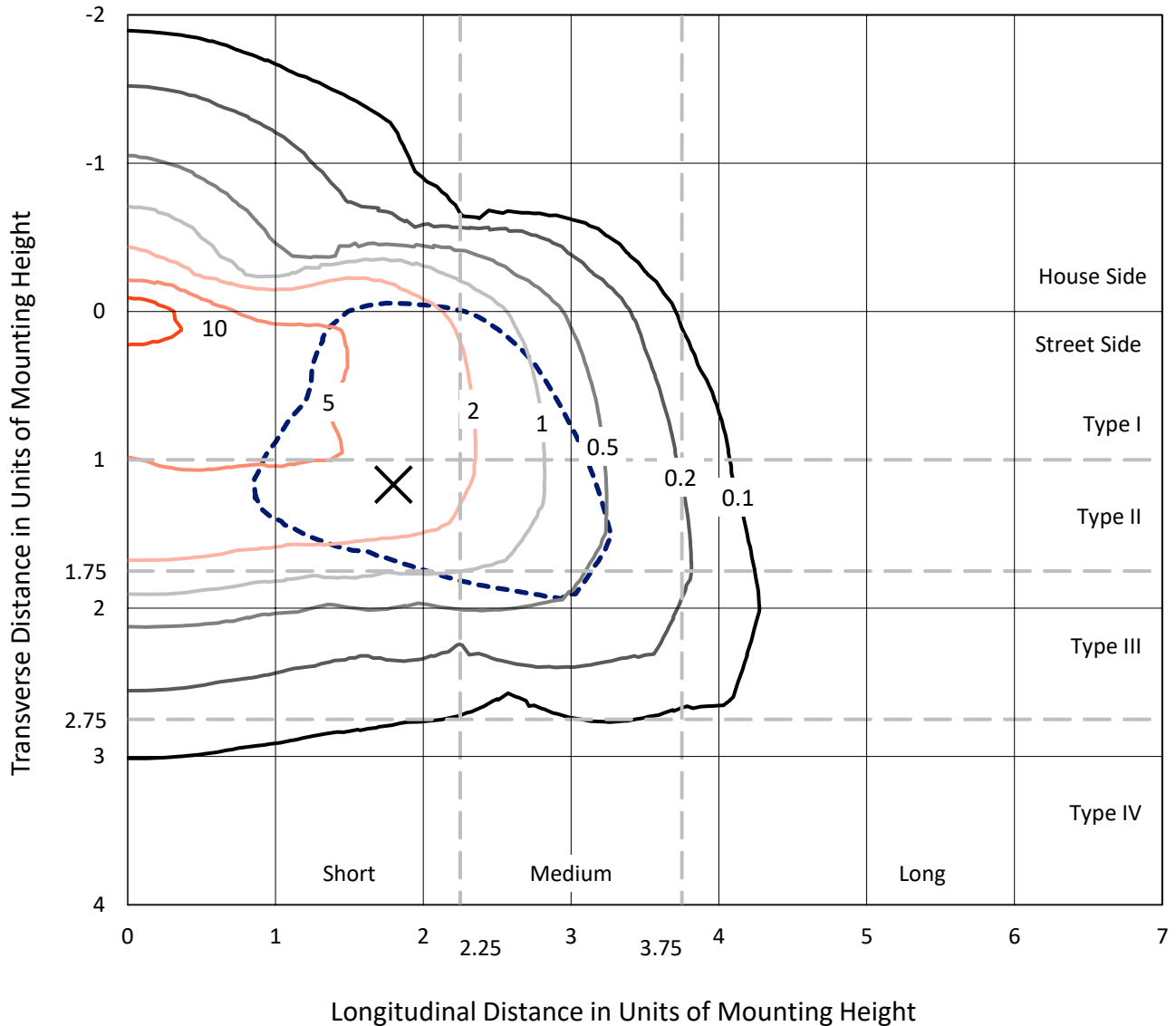
Lumens per Lamp: N/A  
Luminaire Lumens: 45522.2 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

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

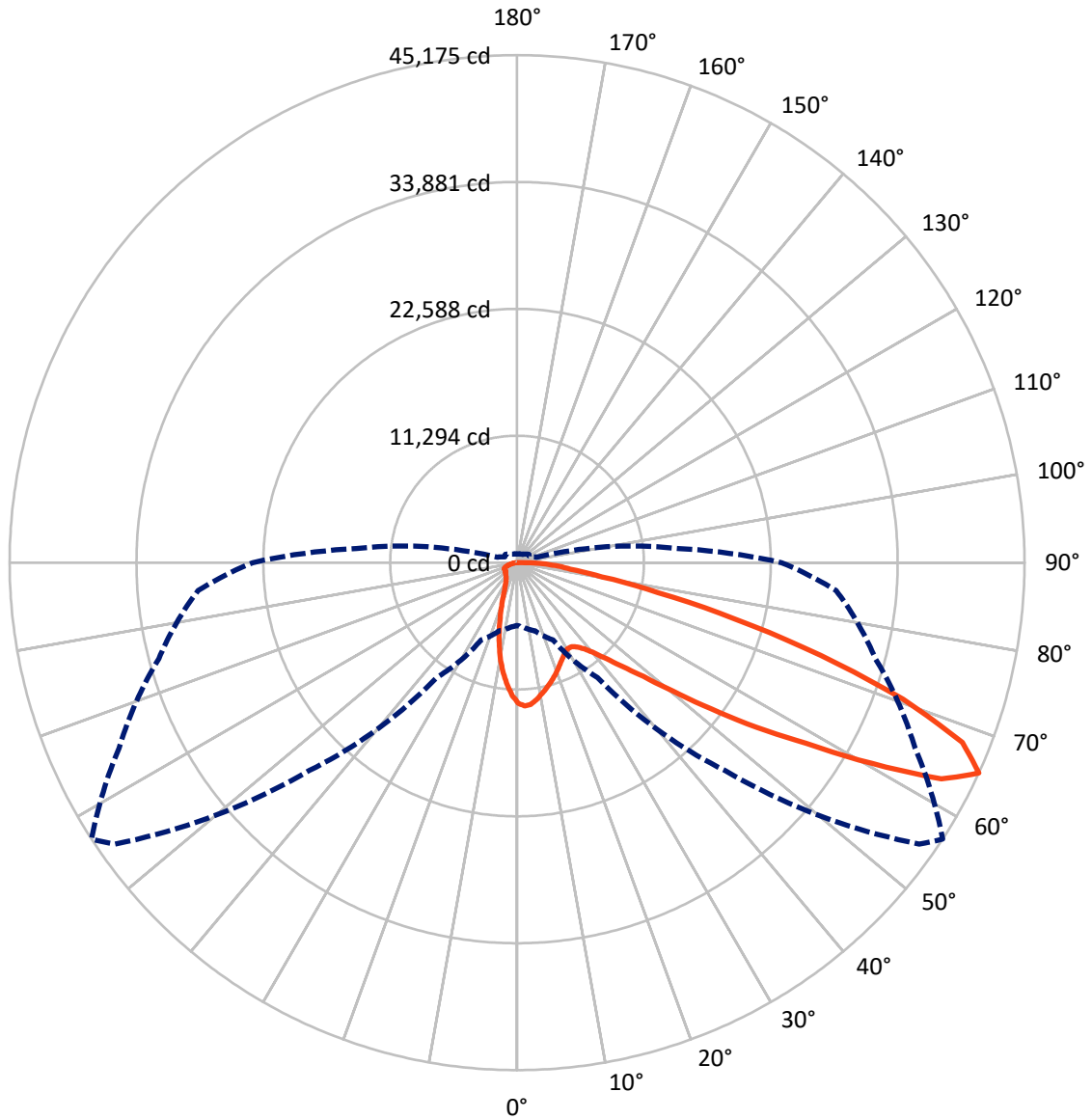
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P480450  
CATALOG NUMBER: IFLD-L-SA8C-730-U-SL3

### 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
<b>House Side</b>	Lumens	6981.3	0.0	6981.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	38541.0	0.0	38541.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	45522.2	0.0	45522.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1048.3	2.3
10°-20°	2256.1	5.0
20°-30°	2916.9	6.4
30°-40°	3925.2	8.6
40°-50°	6258.9	13.7
50°-60°	11054.7	24.3
60°-70°	12161.7	26.7
70°-80°	5087.4	11.2
80°-90°	813.1	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°	45522.2	100.0
0°-180°	45522.2	100.0

**Coefficient of Utilization**



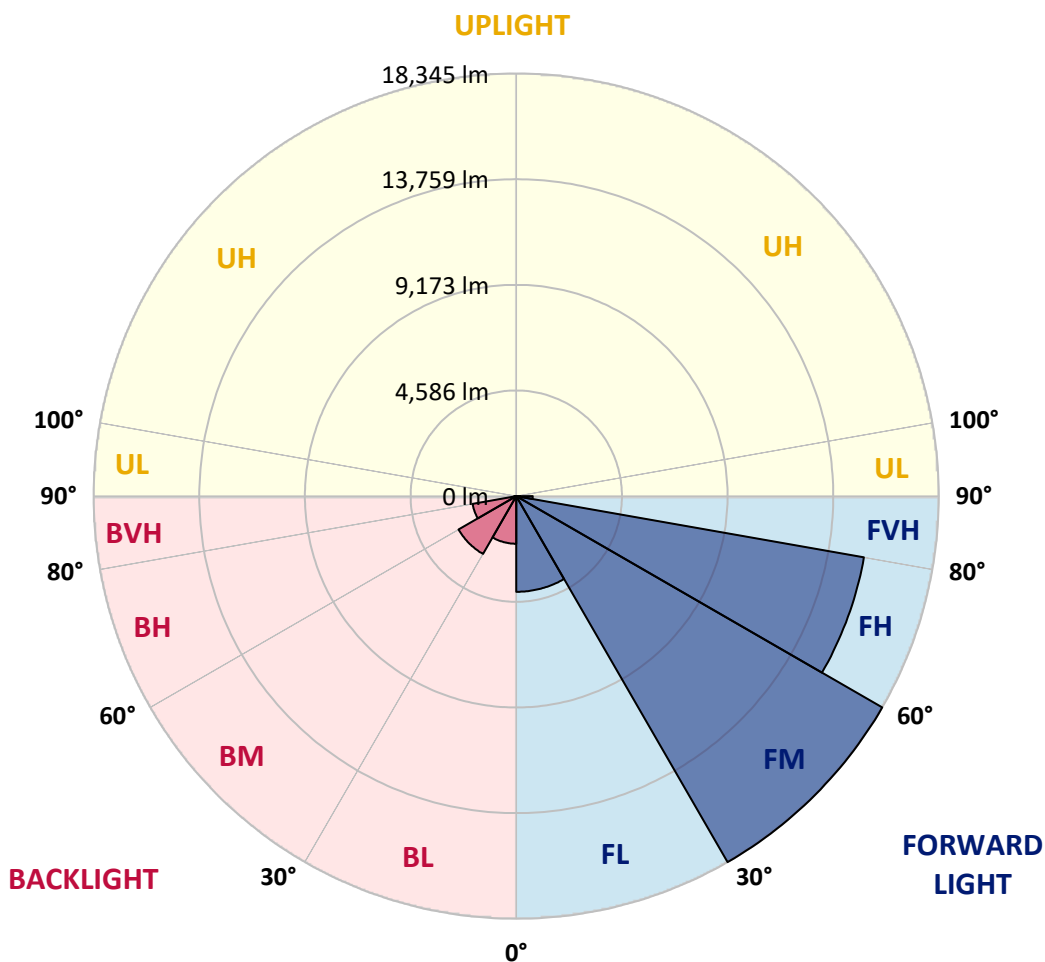
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 CATALOG NUMBER: IFLD-L-SA8C-730-U-SL3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4153.7	9.1			
FM (30°-60°)	18345.4	40.3			
FH (60°-80°)	15324.1	33.7			G5
FVH (80°-90°)	717.7	1.6			G4/750
BL (0°-30°)	2067.5	4.5	B3/2500		
BM (30°-60°)	2893.4	6.4	B3/5000		
BH (60°-80°)	1925.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	95.4	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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CATALOG NUMBER: IFLD-L-SA8C-730-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0
2.5°	12856.0	12876.5	12876.5	12917.5	12779.2	12845.8	12835.5	12774.1	12794.5	12687.0	12579.4
5°	12492.4	12477.0	12558.9	12569.2	12676.7	12707.5	12733.1	12692.1	12702.4	12466.7	12364.3
7.5°	11560.2	11555.0	11693.3	11811.1	12036.5	12246.5	12384.8	12343.8	12400.2	12251.6	12010.9
10°	10453.8	10571.6	10715.1	10832.9	11247.7	11514.1	11872.6	11908.5	12123.6	12087.7	11652.4
12.5°	9624.1	9675.3	9782.9	10120.9	10499.9	10940.4	11452.6	11498.7	11708.7	11811.1	11432.1
15°	8942.9	8989.0	9127.3	9378.2	9803.3	10325.8	10976.3	11094.1	11514.1	11549.9	11145.3
17.5°	8446.0	8481.9	8574.1	8825.1	9173.4	9844.3	10459.0	10669.0	11222.1	11396.3	10848.2
20°	8251.4	8174.6	8225.8	8384.6	8732.9	9250.2	10044.1	10228.5	10935.3	11278.5	10566.5
22.5°	8164.3	8097.8	8128.5	8118.2	8394.8	8763.6	9598.5	9793.1	10663.8	11140.2	10315.5
25°	8230.9	8230.9	8200.2	8174.6	8205.3	8446.0	9117.0	9419.2	10300.2	11022.4	10059.4
27.5°	8589.5	8451.2	8466.5	8359.0	8328.2	8328.2	8901.9	9081.2	10182.4	10955.8	9849.4
30°	8819.9	8886.5	8891.6	8732.9	8574.1	8287.3	8702.1	8876.3	10085.1	11037.7	9726.5
32.5°	9409.0	9378.2	9291.2	9260.4	9024.8	8702.1	8799.5	8917.3	10028.7	11222.1	9762.4
35°	9998.0	9982.6	9987.7	9972.4	9726.5	9250.2	9060.7	9219.5	10131.2	11544.8	9885.3
37.5°	10607.5	10648.5	10822.6	10822.6	10561.4	10044.1	9793.1	9747.0	10505.1	12072.4	10177.2
40°	11217.0	11319.4	11539.7	11888.0	11519.2	11037.7	10633.1	10561.4	10955.8	12779.2	10879.0
42.5°	11800.9	11969.9	12405.3	12922.6	12799.7	12318.2	11780.4	11698.5	11882.8	13829.2	11857.2
45°	12548.7	12692.1	13378.4	14172.3	14341.4	13916.2	13286.3	13219.7	13209.4	15365.8	13204.3
47.5°	13685.8	13839.4	14525.8	15324.8	15847.2	15913.8	15207.0	15135.3	14889.4	17440.1	15176.2
50°	15109.7	15360.6	15939.4	16871.6	17629.6	18341.6	18141.8	17931.8	17450.4	19852.6	17675.7
52.5°	16149.4	16456.7	17240.4	18433.8	19770.6	20902.5	21619.6	21619.6	20513.3	22500.6	20682.3
55°	16426.0	16610.4	17598.9	19325.0	21614.5	24477.6	25978.4	25865.7	24160.1	25286.9	24180.6
57.5°	15324.8	15565.5	16764.0	18572.1	22582.5	27822.3	30306.4	30332.0	28144.9	28524.0	27632.7
60°	12292.6	12369.4	13783.1	16200.6	21650.3	30516.4	36217.1	36314.4	32677.8	31407.6	29389.6
62.5°	8497.3	8743.1	9808.5	11928.9	17937.0	30214.2	41917.8	42399.2	36309.3	32928.8	29666.1
65°	5593.1	5741.7	6310.2	7600.9	12487.2	26188.4	43690.0	45175.3	39085.3	33015.9	28508.6
67.5°	4056.6	4082.2	4251.2	4917.0	7503.6	18833.3	40662.9	42757.8	40125.1	32288.6	25794.0
70°	3278.0	3298.5	3360.0	3785.1	4845.3	11785.5	33164.4	36447.6	37005.9	28841.5	20774.5
72.5°	2663.4	2689.0	2765.8	3165.3	3995.1	6556.1	24252.3	28252.5	30101.5	21337.9	13808.7
75°	2094.9	2115.4	2299.7	2694.1	3754.4	4502.2	16087.9	20006.2	20257.2	12471.9	6463.9
77.5°	1434.1	1470.0	1695.4	2284.4	3534.1	3938.8	10028.7	12815.0	11498.7	4881.2	2222.9
80°	911.7	962.9	1096.1	1731.2	3124.4	3759.5	6238.5	7652.1	5034.8	1669.7	1070.5
82.5°	537.8	589.0	722.2	1121.7	2453.4	3488.0	4394.6	4789.0	2361.2	855.4	645.4
85°	297.1	332.9	435.4	676.1	1439.3	3098.8	3518.8	3436.8	1352.2	455.9	404.6
87.5°	97.3	112.7	158.8	271.5	594.1	1459.7	2110.2	1982.2	701.7	210.0	158.8
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°	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0	12518.0
2.5°	12507.7	12492.4	12261.9	12087.7	11790.7	11544.8	11447.5	11314.3	11309.2	11211.9	11186.3
5°	12205.5	12046.7	11693.3	11355.3	10827.7	10474.3	10151.6	9926.3	9834.1	9634.3	9588.2
7.5°	11816.3	11606.3	11063.3	10428.2	9808.5	9255.3	8753.4	8251.4	7969.7	7872.4	7764.8
10°	11411.6	11042.9	10238.7	9526.8	8661.2	7810.9	7022.1	6315.3	5931.2	5659.7	5541.9
12.5°	11089.0	10597.2	9572.9	8507.5	7365.3	6228.3	5311.4	4568.7	4133.4	3928.5	3836.3
15°	10725.3	10074.8	8845.6	7498.5	6074.6	4783.9	3887.5	3303.6	3129.5	3032.2	3016.8
17.5°	10341.2	9588.2	8056.8	6504.8	4814.6	3600.7	3021.9	2786.3	2709.5	2668.5	2648.0
20°	9982.6	9152.9	7247.5	5398.5	3769.7	2888.8	2617.3	2494.4	2489.3	2509.7	2504.6
22.5°	9475.5	8584.3	6448.5	4374.1	3011.7	2514.9	2340.7	2310.0	2340.7	2366.3	2376.6
25°	9188.7	8118.2	5557.3	3472.7	2489.3	2233.2	2176.8	2166.6	2212.7	2243.4	2238.3
27.5°	8891.6	7636.8	4727.5	2781.2	2181.9	2033.4	2023.2	2033.4	2079.5	2125.6	2120.5
30°	8661.2	7252.6	3949.0	2325.4	1946.3	1890.0	1879.7	1890.0	1915.6	1920.7	1920.7
32.5°	8471.7	6796.8	3288.3	2018.0	1802.9	1756.8	1767.1	1761.9	1767.1	1772.2	1777.3
35°	8359.0	6525.3	2745.3	1828.5	1685.1	1649.3	1644.1	1628.8	1633.9	1639.0	1633.9
37.5°	8599.7	6392.2	2315.1	1695.4	1603.2	1572.4	1562.2	1551.9	1536.6	1536.6	1536.6
40°	8963.4	6320.4	2053.9	1608.3	1541.7	1505.8	1475.1	1464.9	1464.9	1470.0	1475.1
42.5°	9685.5	6438.2	1874.6	1541.7	1464.9	1423.9	1393.2	1398.3	1413.6	1429.0	1418.8
45°	10730.4	6796.8	1792.7	1490.5	1418.8	1362.4	1341.9	1336.8	1352.2	1377.8	1398.3
47.5°	12098.0	7355.1	1761.9	1444.4	1388.0	1311.2	1285.6	1301.0	1321.5	1357.3	1341.9
50°	14336.2	8609.9	1787.5	1403.4	1341.9	1285.6	1254.9	1239.5	1254.9	1280.5	1290.7
52.5°	17260.9	10889.2	1884.9	1382.9	1311.2	1265.1	1213.9	1188.3	1203.7	1224.1	1224.1
55°	20759.1	14003.3	2156.3	1357.3	1260.0	1234.4	1178.0	1126.8	1137.1	1137.1	1131.9
57.5°	23842.5	16354.3	2479.0	1321.5	1229.3	1193.4	1121.7	1060.2	1050.0	1055.1	1060.2
60°	25225.4	16979.2	2632.7	1311.2	1229.3	1142.2	1044.9	983.4	968.0	957.8	957.8
62.5°	24984.7	15898.4	2320.2	1265.1	1260.0	1101.2	973.2	906.6	886.1	865.6	870.7
65°	23530.1	14356.7	1828.5	1203.7	1265.1	1075.6	901.5	834.9	799.0	773.4	768.3
67.5°	20871.8	12256.7	1449.5	1157.6	1213.9	1029.5	840.0	763.2	732.4	706.8	696.6
70°	16328.7	9608.7	1260.0	1096.1	1091.0	916.8	768.3	701.7	655.6	624.9	624.9
72.5°	10587.0	6074.6	1080.7	973.2	942.4	768.3	665.8	624.9	589.0	563.4	563.4
75°	4794.1	2822.2	870.7	814.4	768.3	614.6	563.4	542.9	512.2	486.6	486.6
77.5°	1721.0	1203.7	650.5	640.2	573.7	476.3	455.9	440.5	420.0	394.4	394.4
80°	962.9	763.2	486.6	466.1	399.5	353.4	327.8	327.8	317.6	302.2	297.1
82.5°	609.5	496.8	358.5	312.4	261.2	235.6	225.4	220.2	215.1	194.6	189.5
85°	384.1	338.0	235.6	184.4	153.7	117.8	112.7	107.6	97.3	87.1	87.1
87.5°	174.1	194.6	92.2	56.3	41.0	25.6	15.4	5.1	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)