

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: P480865

Luminaire Tested: **IFLD-S-SA6D-735-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480865  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-735-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

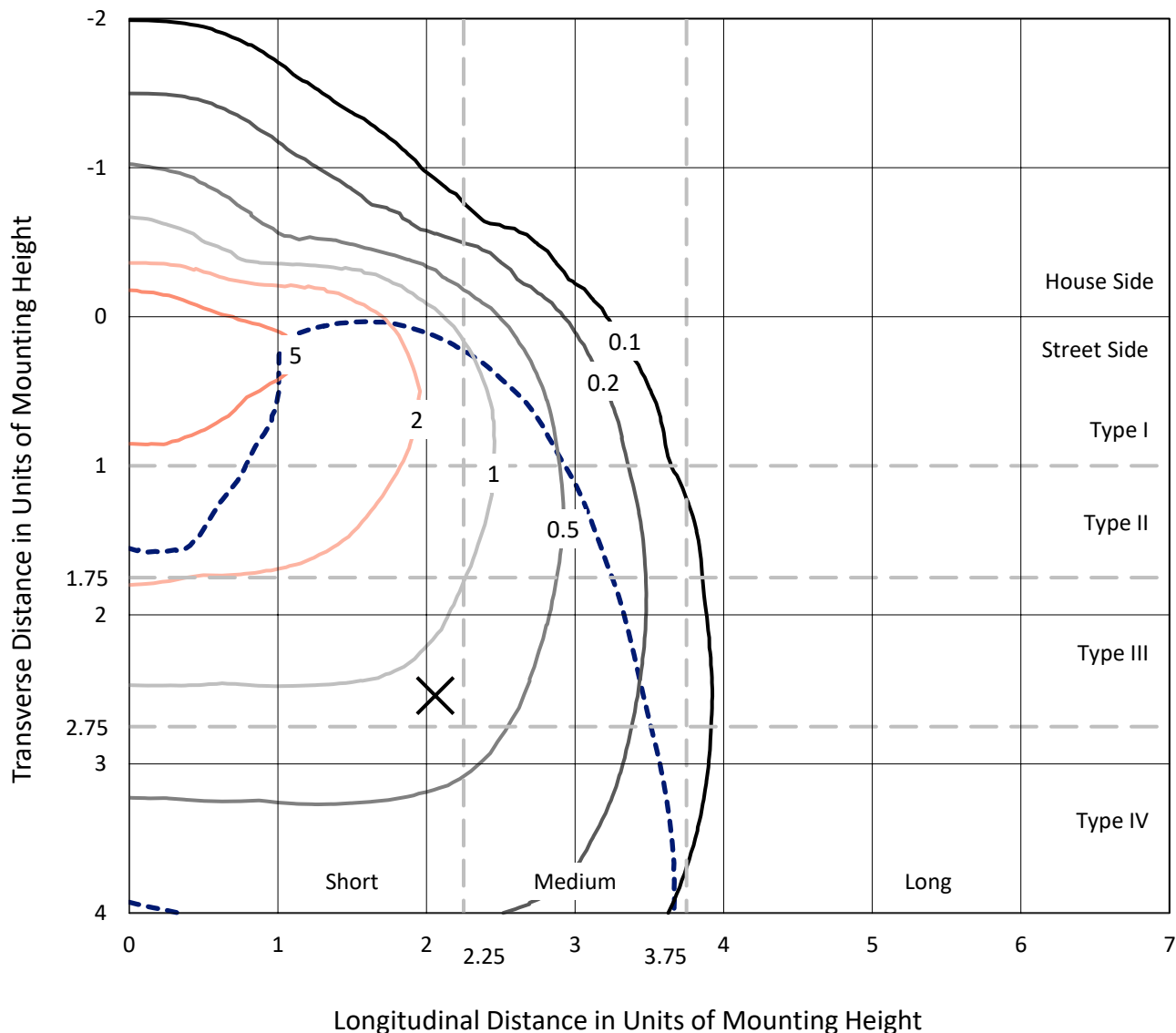
Lumens per Lamp: N/A  
Luminaire Lumens: 43619.9 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

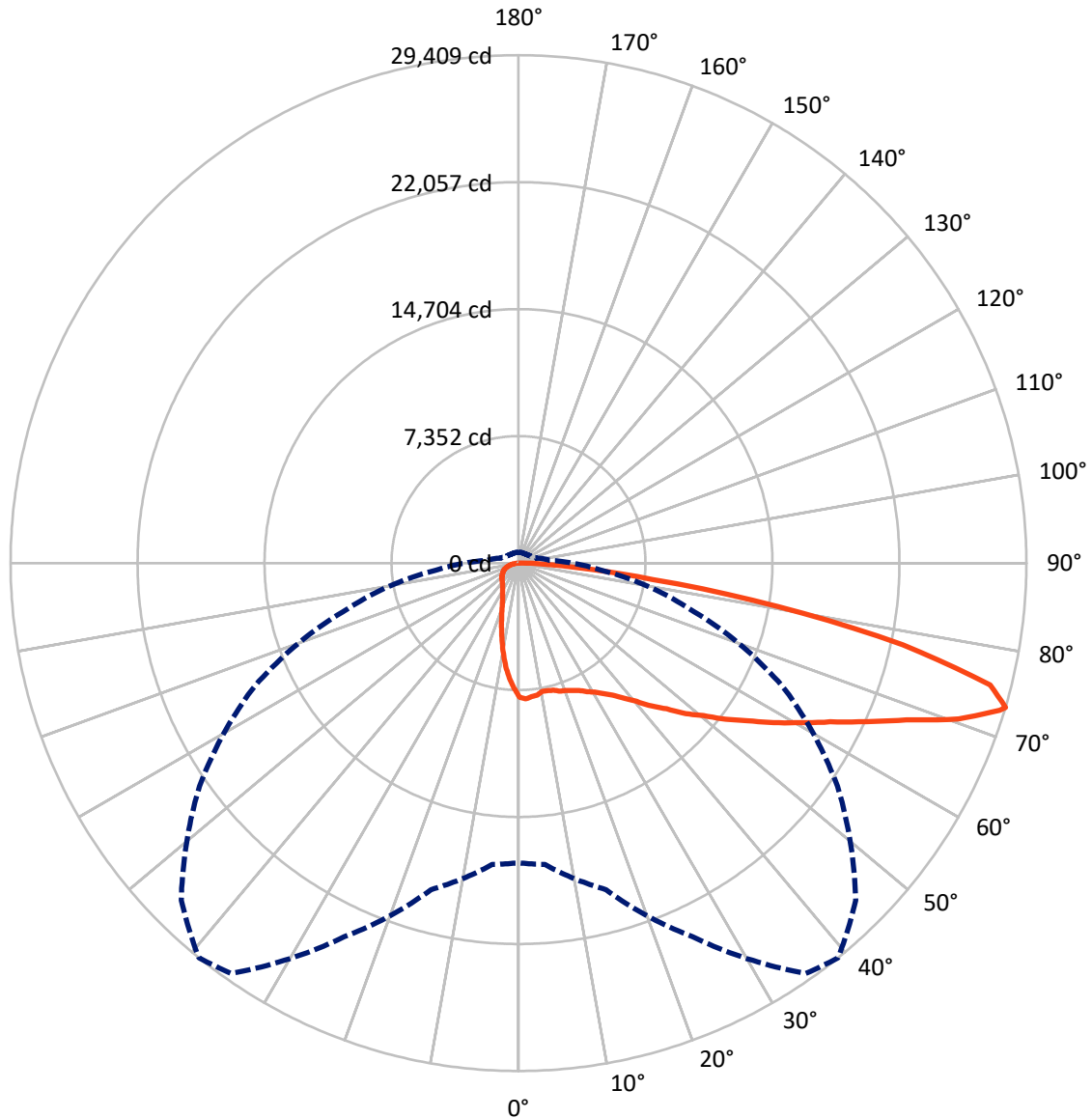
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6131.7	0.0	6131.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	37488.2	0.0	37488.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	43619.9	0.0	43619.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	674.0	1.5
10°-20°	1713.5	3.9
20°-30°	2618.4	6.0
30°-40°	3817.7	8.8
40°-50°	5768.9	13.2
50°-60°	8353.7	19.2
60°-70°	10613.8	24.3
70°-80°	8604.1	19.7
80°-90°	1455.8	3.3
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°	43619.9	100.0
0°-180°	43619.9	100.0

**Coefficient of Utilization**



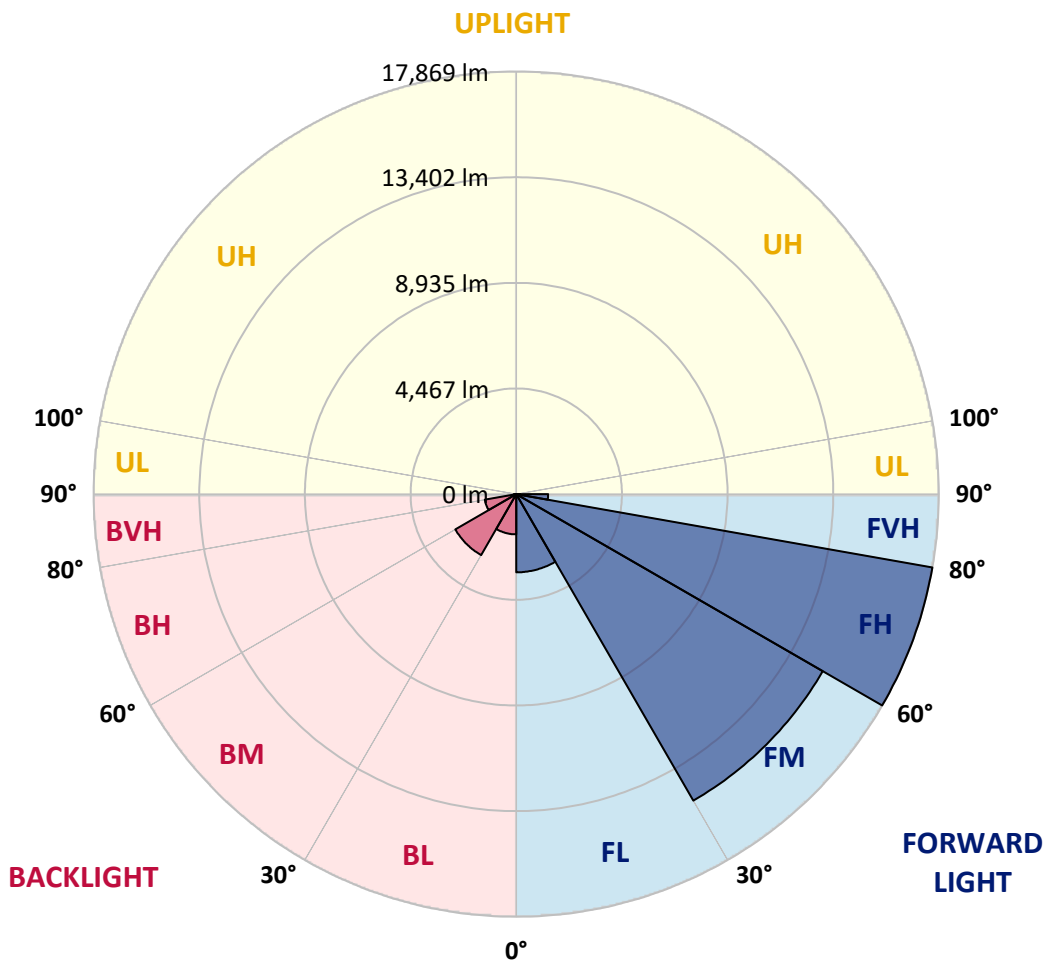
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3305.4	7.6			
FM (30°-60°)	14964.4	34.3			
FH (60°-80°)	17869.3	41.0			G5
FVH (80°-90°)	1349.0	3.1			G5
BL (0°-30°)	1700.5	3.9	B3/2500		
BM (30°-60°)	2975.9	6.8	B3/5000		
BH (60°-80°)	1348.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	106.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6
2.5°	7950.1	7867.1	7881.7	7852.5	7881.7	7872.0	7857.3	7784.1	7857.3	7784.1	7764.6
5°	7842.7	7842.7	7891.5	7818.3	7828.1	7779.3	7828.1	7774.4	7725.6	7603.6	7569.4
7.5°	7808.5	7803.7	7808.5	7706.0	7754.9	7725.6	7676.8	7618.2	7520.6	7442.5	7330.3
10°	7574.3	7623.1	7569.4	7598.7	7637.7	7549.9	7545.0	7530.4	7486.4	7383.9	7315.6
12.5°	7447.4	7530.4	7559.6	7535.2	7569.4	7579.2	7549.9	7530.4	7476.7	7408.3	7213.1
15°	7501.1	7403.5	7486.4	7647.5	7613.3	7637.7	7642.6	7623.1	7598.7	7471.8	7344.9
17.5°	7515.7	7457.2	7632.8	7667.0	7710.9	7798.8	7740.2	7735.3	7642.6	7554.8	7369.3
20°	7549.9	7525.5	7667.0	7847.6	7852.5	7867.1	7896.4	7823.2	7774.4	7623.1	7340.0
22.5°	7676.8	7759.7	7891.5	7969.6	8013.5	8023.3	8023.3	7876.9	7823.2	7701.2	7476.7
25°	8057.4	7969.6	8155.0	8247.8	8184.3	8169.7	8135.5	8003.7	7945.2	7837.8	7540.1
27.5°	8335.6	8330.7	8438.1	8565.0	8394.2	8428.3	8306.3	8267.3	8135.5	8077.0	7652.4
30°	8716.3	8823.6	8818.8	8857.8	8633.3	8672.4	8516.2	8443.0	8369.8	8403.9	7984.2
32.5°	9204.3	9165.3	9228.7	9199.4	8974.9	9009.1	8823.6	8711.4	8735.8	8838.3	8438.1
35°	9516.7	9477.6	9502.0	9502.0	9433.7	9394.6	9316.6	9170.1	9287.3	9477.6	8945.7
37.5°	9853.4	9902.2	10043.7	10014.4	9926.6	9926.6	9916.8	9814.4	9965.6	10434.2	9755.8
40°	10151.1	10282.9	10370.7	10429.3	10531.8	10531.8	10614.7	10556.2	10829.5	11581.0	10746.5
42.5°	10463.4	10468.3	10946.6	10990.5	11219.9	11317.5	11380.9	11429.7	11942.2	12781.6	11805.5
45°	10863.6	10888.0	11307.7	11644.5	12000.7	12034.9	12274.0	12435.1	13064.7	14094.4	12957.3
47.5°	11390.7	11361.4	11810.4	12347.2	12791.4	13025.6	13313.6	13489.2	14265.2	15519.5	14216.4
50°	12083.7	11995.9	12254.5	13098.8	13621.0	13879.7	14392.1	14684.9	15592.7	16881.1	15080.2
52.5°	12928.0	12781.6	12986.6	13909.0	14494.6	15016.8	15504.8	15831.8	16778.6	17935.2	15719.6
55°	13821.1	13518.5	13577.1	14767.9	15612.2	16105.1	16773.7	17115.3	18081.6	18882.0	16358.9
57.5°	14704.4	14514.1	14397.0	15592.7	16944.5	17417.9	18032.8	18476.9	19296.8	19721.4	16900.6
60°	15446.3	15397.5	15207.1	16871.3	18354.9	18760.0	19404.2	19677.5	20297.3	20497.4	16910.4
62.5°	16056.3	15890.4	16192.9	17901.1	19789.8	20248.5	20956.2	20980.6	21419.8	20980.6	16412.6
65°	16534.6	16544.3	17027.5	19145.6	21449.1	22127.4	22698.4	22635.0	22351.9	20692.6	15236.4
67.5°	16968.9	17154.4	17862.0	20512.0	23581.8	24221.1	24855.5	24016.1	22605.7	19345.6	12937.8
70°	17310.5	17496.0	18989.4	22176.2	26095.1	27032.2	27173.7	24562.7	21439.3	16388.2	9760.7
72.5°	17271.5	17608.2	19628.7	23503.7	28325.5	29135.6	27993.6	23025.4	17862.0	11424.9	5695.4
73°	17354.5	17520.4	19575.0	23874.6	29003.8	29408.9	27612.9	22542.3	16846.9	10248.7	4816.9
75°	15753.7	16315.0	18603.8	23269.4	28276.7	28203.5	25426.5	18784.4	11976.3	5383.0	2332.8
77.5°	11654.2	12010.5	14660.5	19135.8	23210.9	22742.4	19179.7	12005.6	5685.6	1996.1	1259.1
80°	5695.4	5973.5	7769.5	11049.1	15177.8	15216.9	11903.1	6246.8	2435.3	1127.4	858.9
82.5°	2845.2	3011.2	3733.5	4855.9	7466.9	7823.2	6037.0	3552.9	1508.0	639.3	488.0
85°	1859.4	1976.5	2298.6	2376.7	3167.3	3343.0	2811.1	2772.0	980.9	346.5	395.3
87.5°	1234.7	1254.2	1410.4	1200.6	1268.9	1220.1	1356.7	1747.2	287.9	146.4	107.4
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°	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6	7764.6
2.5°	7740.2	7671.9	7598.7	7496.2	7423.0	7310.7	7208.3	7164.3	7154.6	7159.5	7110.6
5°	7540.1	7442.5	7296.1	7086.2	6964.2	6778.8	6622.6	6539.6	6451.8	6466.4	6427.4
7.5°	7261.9	7154.6	6930.1	6686.1	6383.5	6119.9	5973.5	5768.6	5651.4	5563.6	5612.4
10°	7174.1	6988.6	6651.9	6315.2	5846.6	5500.1	5163.4	4929.1	4768.1	4611.9	4680.2
12.5°	7130.2	6944.7	6476.2	5978.4	5373.2	4846.2	4372.8	4084.8	3855.5	3718.8	3772.5
15°	7091.1	6861.7	6310.3	5607.5	4929.1	4236.1	3704.2	3323.5	3103.9	2972.1	2986.8
17.5°	7144.8	6817.8	6066.3	5246.4	4441.1	3699.3	3108.8	2713.5	2489.0	2406.0	2386.5
20°	7091.1	6769.0	5827.1	4885.2	3953.1	3186.9	2620.7	2293.8	2137.6	2069.3	2054.6
22.5°	7110.6	6651.9	5578.2	4485.0	3499.2	2757.4	2293.8	2044.9	1922.9	1888.7	1898.5
25°	7203.4	6583.6	5329.3	4045.8	3050.2	2440.2	2083.9	1893.6	1805.7	1771.6	1781.3
27.5°	7271.7	6642.1	5104.8	3631.0	2669.5	2157.1	1908.2	1781.3	1722.8	1698.4	1693.5
30°	7442.5	6676.3	4885.2	3260.1	2357.2	1971.7	1786.2	1683.7	1644.7	1630.0	1625.2
32.5°	7696.3	6739.7	4631.4	2918.4	2127.8	1796.0	1688.6	1600.7	1591.0	1576.3	1581.2
35°	8111.1	6959.4	4348.4	2625.6	1908.2	1678.8	1586.1	1527.5	1527.5	1527.5	1542.2
37.5°	8706.5	7266.8	4094.6	2347.4	1766.7	1576.3	1498.3	1478.7	1469.0	1483.6	1493.4
40°	9472.7	7637.7	3889.6	2127.8	1644.7	1508.0	1439.7	1429.9	1425.1	1420.2	1429.9
42.5°	10312.1	8111.1	3713.9	1957.0	1556.8	1434.8	1386.0	1376.3	1356.7	1366.5	1381.1
45°	11146.7	8696.8	3557.8	1820.4	1498.3	1395.8	1327.5	1322.6	1312.8	1307.9	1332.3
47.5°	12073.9	9272.6	3509.0	1737.4	1454.3	1337.2	1288.4	1283.5	1254.2	1249.4	1268.9
50°	12796.2	9697.2	3562.6	1698.4	1390.9	1293.3	1259.1	1234.7	1210.3	1185.9	1185.9
52.5°	13294.0	9990.0	3601.7	1669.1	1356.7	1234.7	1190.8	1181.0	1156.6	1132.2	1122.5
55°	13743.0	10165.7	3611.4	1674.0	1322.6	1166.4	1137.1	1132.2	1117.6	1078.6	1068.8
57.5°	13894.3	10092.5	3416.2	1630.0	1303.0	1122.5	1083.4	1093.2	1073.7	1039.5	1034.6
60°	13879.7	9585.0	2972.1	1571.5	1259.1	1073.7	1024.9	1054.2	1054.2	1015.1	1010.2
62.5°	13035.4	8413.7	2430.4	1459.2	1210.3	1024.9	971.2	1015.1	1029.8	1005.3	1000.5
65°	11283.3	6852.0	2030.2	1347.0	1137.1	971.2	917.5	966.3	990.7	980.9	976.1
67.5°	9336.1	5241.5	1688.6	1200.6	1044.4	898.0	854.1	888.2	902.9	907.7	912.6
70°	6598.2	3489.4	1410.4	1039.5	917.5	819.9	771.1	776.0	771.1	785.7	785.7
72.5°	3587.0	2010.7	1146.9	883.3	790.6	712.5	678.4	654.0	654.0	649.1	649.1
73°	3069.7	1805.7	1093.2	858.9	756.5	693.0	654.0	634.4	634.4	629.6	624.7
75°	1722.8	1322.6	937.0	736.9	654.0	605.2	575.9	546.6	541.7	541.7	541.7
77.5°	1132.2	1029.8	746.7	590.5	527.1	483.2	473.4	444.1	444.1	444.1	439.2
80°	849.2	810.1	575.9	449.0	405.1	370.9	361.1	341.6	336.7	317.2	322.1
82.5°	566.1	639.3	419.7	317.2	273.3	253.8	253.8	248.9	234.3	209.9	209.9
85°	449.0	522.2	302.6	195.2	161.1	136.6	141.5	136.6	131.8	107.4	102.5
87.5°	83.0	209.9	87.8	53.7	39.0	24.4	24.4	14.6	9.8	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)