

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: P480286

Luminaire Tested: **IFLD-M-SA4E-830-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480286  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-830-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

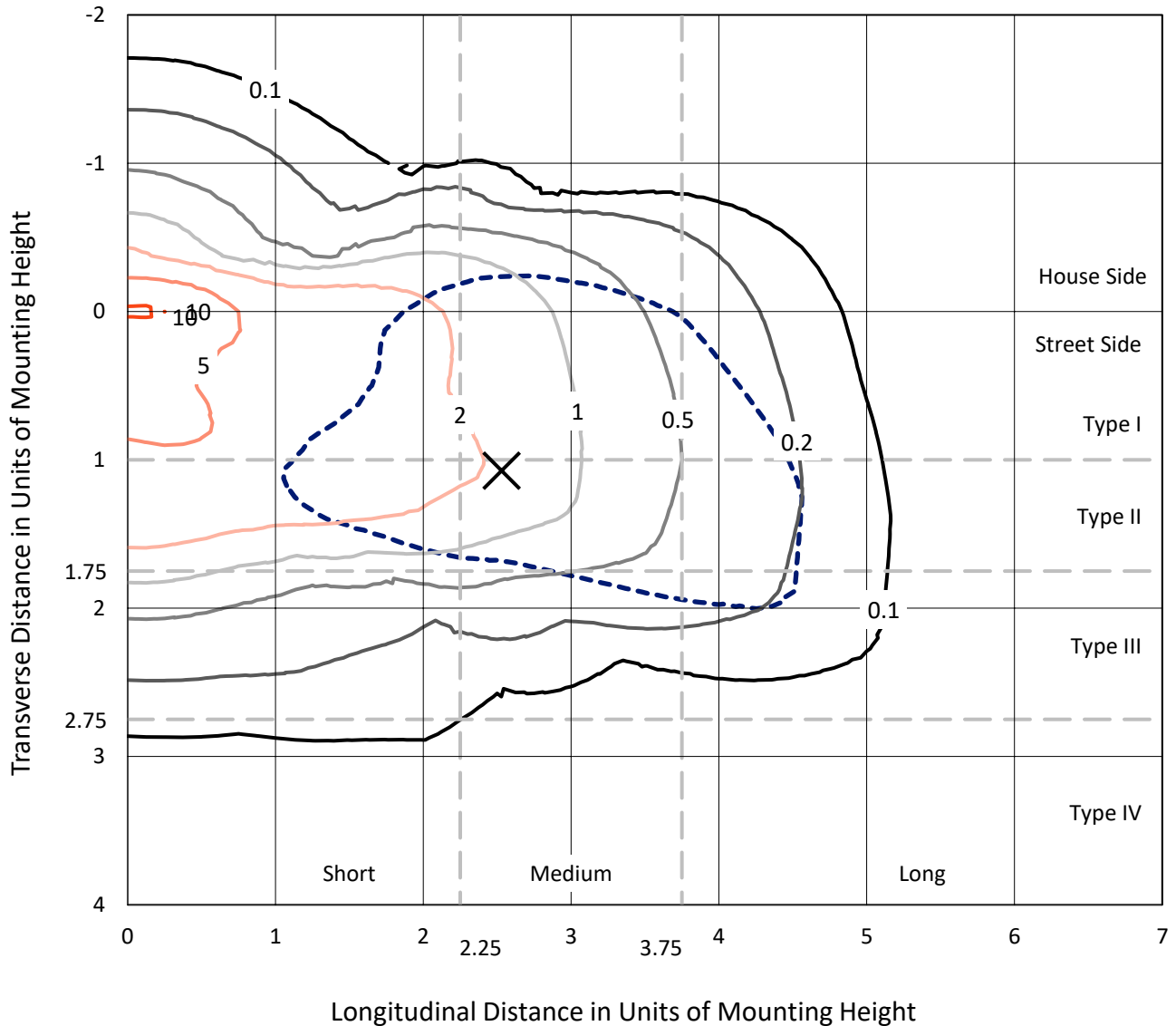
Lumens per Lamp: N/A  
Luminaire Lumens: 28683.5 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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

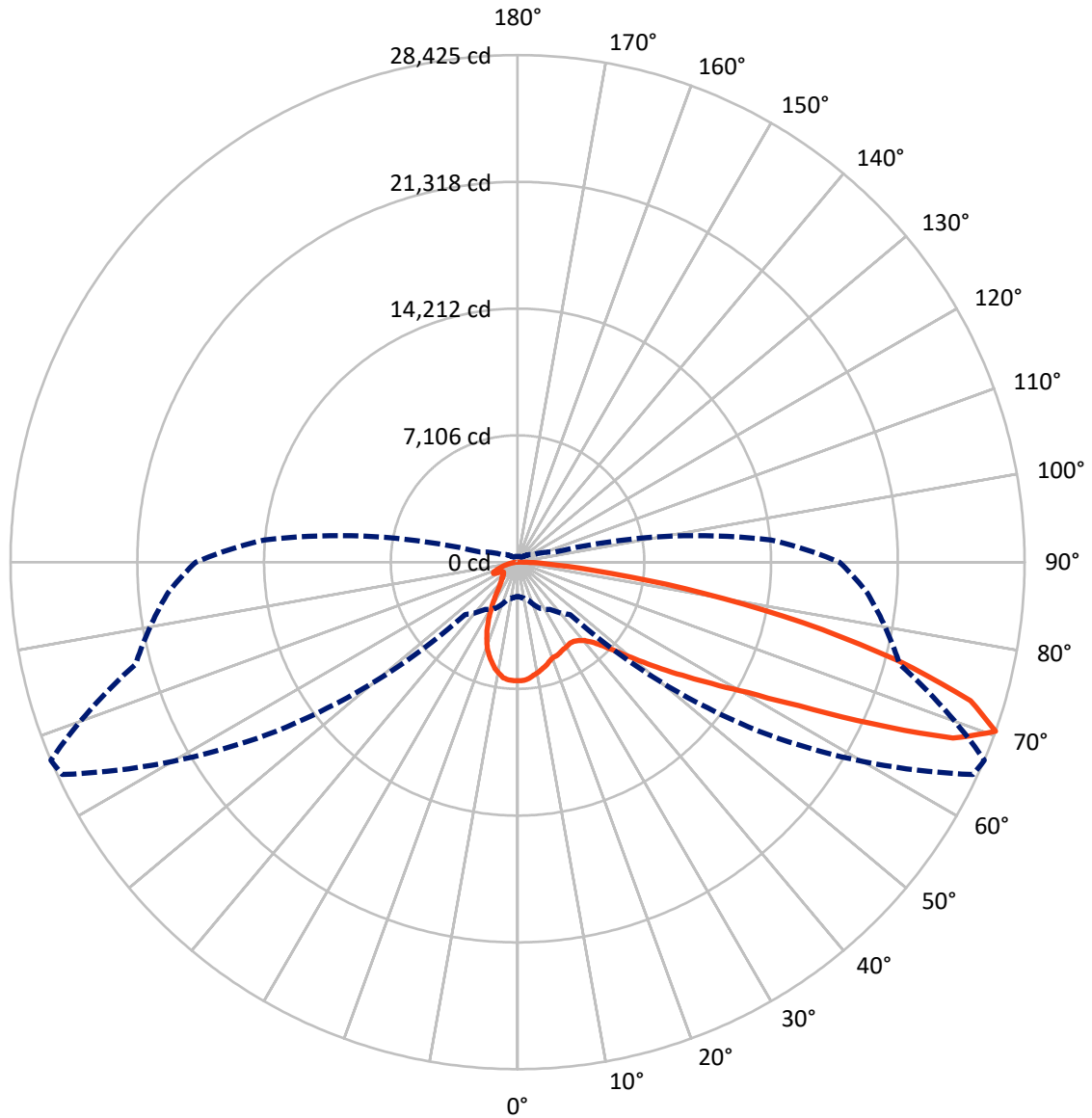
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5586.4	0.0	5586.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	23097.1	0.0	23097.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	28683.5	0.0	28683.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.4	2.0
10°-20°	1387.6	4.8
20°-30°	1873.8	6.5
30°-40°	2507.3	8.7
40°-50°	3687.0	12.9
50°-60°	5747.0	20.0
60°-70°	7079.4	24.7
70°-80°	5002.2	17.4
80°-90°	819.9	2.9
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°	28683.5	100.0
0°-180°	28683.5	100.0

**Coefficient of Utilization**



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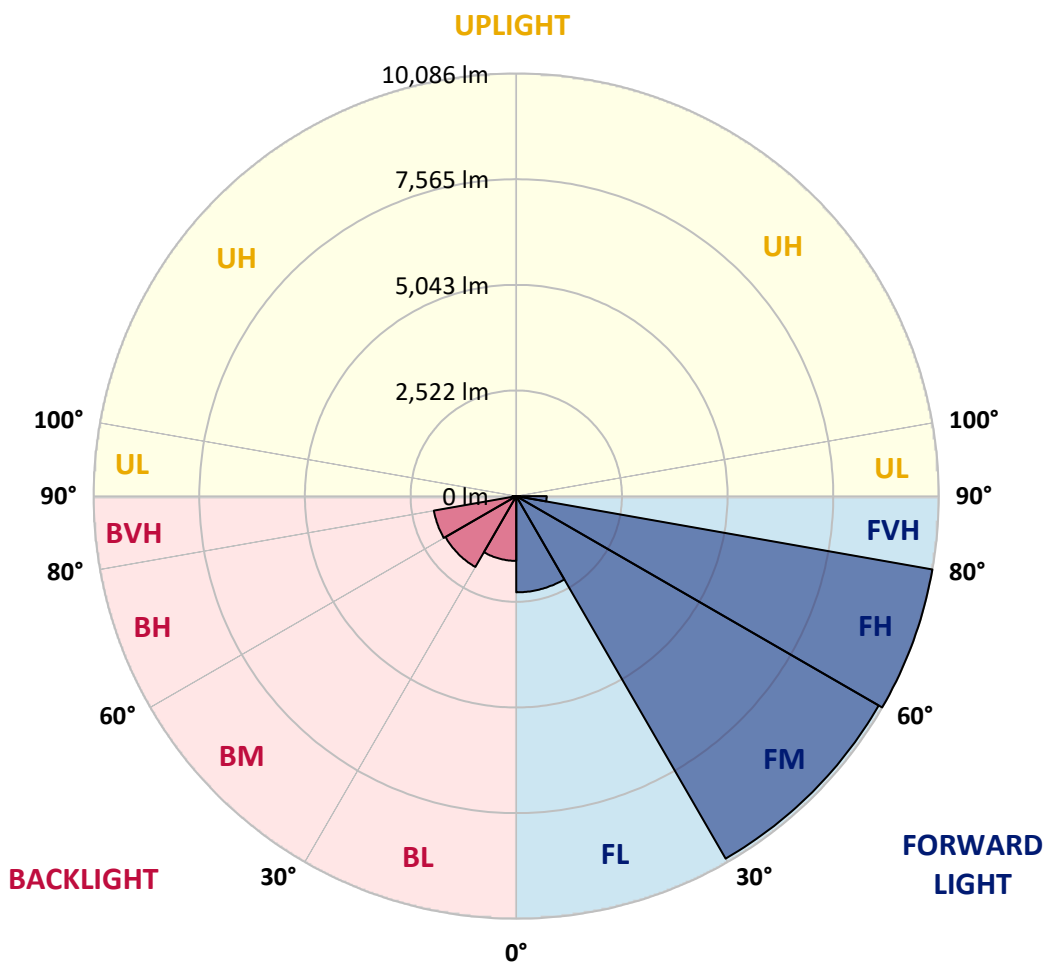
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2295.9	8.0			
FM (30°-60°)	9989.8	34.8			
FH (60°-80°)	10086.1	35.2			G4/12000
FVH (80°-90°)	725.3	2.5			G4/750
BL (0°-30°)	1544.8	5.4	B3/2500		
BM (30°-60°)	1951.5	6.8	B2/2500		
BH (60°-80°)	1995.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	94.6	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1
2.5°	6182.9	6252.7	6278.1	6316.2	6414.7	6487.7	6532.2	6583.0	6643.3	6694.1	6725.9
5°	5751.0	5789.1	5849.4	5890.7	6014.6	6211.4	6344.8	6560.8	6554.4	6633.8	6754.5
7.5°	5331.8	5369.9	5398.5	5481.1	5658.9	5836.7	6081.2	6430.6	6405.2	6589.3	6776.7
10°	5071.4	5042.8	5052.4	5192.1	5331.8	5531.9	5839.9	6195.6	6287.7	6573.5	6840.2
12.5°	4826.9	4795.1	4871.3	4960.3	5131.7	5312.8	5681.1	6001.9	6141.6	6516.3	6868.8
15°	4674.5	4652.2	4747.5	4785.6	4988.8	5204.8	5465.2	5855.8	6008.2	6446.4	6824.3
17.5°	4588.7	4607.8	4642.7	4725.3	4855.5	5039.7	5325.5	5757.3	5824.0	6360.7	6814.8
20°	4604.6	4626.8	4630.0	4664.9	4753.8	4896.8	5188.9	5652.5	5697.0	6344.8	6840.2
22.5°	4731.6	4699.9	4712.6	4690.3	4715.7	4826.9	5084.1	5512.8	5684.3	6211.4	6786.2
25°	4922.2	4877.7	4871.3	4795.1	4747.5	4779.3	5065.1	5477.9	5589.0	6170.2	6783.0
27.5°	5258.8	5192.1	5192.1	5077.8	4884.0	4833.2	5011.1	5420.7	5519.2	6132.1	6710.0
30°	5582.7	5582.7	5585.9	5423.9	5208.0	4957.1	5033.3	5398.5	5462.0	6017.7	6611.6
32.5°	5976.4	5966.9	5951.0	5871.7	5538.2	5163.5	5141.3	5369.9	5401.7	5979.6	6583.0
35°	6360.7	6335.3	6459.1	6389.3	6049.5	5566.8	5252.4	5382.6	5452.5	5922.5	6494.1
37.5°	6649.7	6665.6	6922.8	6967.2	6675.1	6024.1	5566.8	5509.6	5576.3	6005.0	6494.1
40°	7024.4	7087.9	7329.2	7478.5	7300.7	6627.4	6065.4	5722.4	5770.0	6189.2	6633.8
42.5°	7516.6	7570.6	7878.6	8072.3	8021.5	7395.9	6557.6	6167.0	6128.9	6497.2	6843.4
45°	8167.6	8177.1	8488.3	8755.1	8859.9	8199.4	7338.8	6729.1	6697.3	7027.6	7227.6
47.5°	8942.4	8932.9	9126.6	9412.4	9695.1	9158.4	8237.5	7583.3	7469.0	7786.5	7865.9
50°	9691.9	9650.6	9695.1	10060.2	10603.3	10358.8	9329.9	8628.1	8513.7	8688.4	8824.9
52.5°	10104.7	10155.5	10034.8	10517.5	11568.7	11778.2	10777.9	9876.1	9777.6	9863.4	10101.5
55°	9815.7	9920.5	9841.1	10298.4	11991.0	13508.9	12651.5	11321.0	11193.9	11162.2	11552.8
57.5°	8586.8	8777.3	8793.2	9517.2	11844.9	14849.0	15287.3	13026.2	12835.7	12511.8	12915.1
60°	6592.5	6783.0	6929.1	7786.5	10593.7	15649.3	18342.2	15452.4	14823.6	13985.3	14226.6
62.5°	4620.5	4750.7	4896.8	5423.9	8167.6	15179.3	20984.3	18869.3	17710.2	15538.1	15839.8
65°	3366.1	3467.7	3617.0	3928.2	5017.4	12559.4	22210.0	22927.7	21829.0	17513.3	17475.2
67.5°	2534.1	2597.6	2794.5	3293.1	3477.3	7758.0	20939.8	27214.8	26325.6	19707.7	18789.9
70°	1918.1	1972.0	2156.2	2839.0	3248.6	4160.0	16519.4	28170.6	28424.6	22168.7	19672.7
72.5°	1321.0	1381.4	1587.8	2365.8	3093.0	3299.4	10368.3	25592.0	26554.2	23181.8	18726.4
75°	809.8	851.1	971.7	1794.2	3070.8	3226.4	5706.5	20971.6	21990.9	21419.3	16382.8
77.5°	571.6	568.4	590.7	1051.1	2661.1	3245.4	3518.5	15366.6	16357.4	15785.8	11117.7
80°	416.0	419.2	441.4	628.8	1806.9	3299.4	2772.3	10292.1	10587.4	8231.1	4385.5
82.5°	250.9	263.6	317.6	425.5	1086.0	2978.7	2562.7	5719.2	5350.9	2642.1	1206.7
85°	133.4	133.4	187.4	269.9	578.0	2222.9	2467.4	2721.5	2280.1	819.3	447.8
87.5°	31.8	31.8	54.0	108.0	231.8	1063.8	1683.1	1082.9	866.9	276.3	184.2
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°	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1	6640.1
2.5°	6713.2	6675.1	6722.7	6627.4	6551.2	6554.4	6436.9	6430.6	6414.7	6332.1	6360.7
5°	6789.4	6757.6	6703.7	6598.9	6430.6	6262.3	6160.6	6030.4	5976.4	5947.9	5960.6
7.5°	6862.4	6805.3	6649.7	6503.6	6243.2	5925.6	5741.5	5566.8	5344.5	5319.1	5274.6
10°	6881.5	6760.8	6560.8	6249.5	5903.4	5550.9	5131.7	4807.8	4636.4	4503.0	4452.2
12.5°	6852.9	6802.1	6417.9	6017.7	5493.8	4941.2	4452.2	3994.9	3677.3	3512.2	3467.7
15°	6849.7	6760.8	6259.1	5665.2	4995.2	4274.3	3578.9	3029.5	2696.1	2559.5	2559.5
17.5°	6852.9	6640.1	6071.7	5309.6	4407.7	3432.8	2667.5	2216.6	2032.4	2013.3	2029.2
20°	6789.4	6551.2	5874.8	4890.4	3671.0	2578.6	1937.1	1752.9	1752.9	1778.3	1787.9
22.5°	6732.2	6417.9	5563.6	4372.8	2921.5	1867.2	1575.1	1521.1	1581.4	1625.9	1645.0
25°	6652.8	6306.7	5246.1	3836.1	2222.9	1505.2	1368.7	1381.4	1438.5	1517.9	1511.6
27.5°	6538.5	6113.0	4868.2	3213.7	1654.5	1298.8	1263.9	1270.2	1330.6	1365.5	1359.1
30°	6408.3	5916.1	4518.9	2594.5	1311.5	1190.8	1187.7	1203.5	1213.1	1232.1	1229.0
32.5°	6243.2	5655.7	4147.3	2016.5	1181.3	1130.5	1117.8	1108.3	1117.8	1114.6	1105.1
35°	6125.7	5516.0	3769.4	1537.0	1108.3	1076.5	1067.0	1051.1	1038.4	1019.4	1016.2
37.5°	6093.9	5376.3	3372.5	1254.4	1051.1	1035.2	1003.5	974.9	959.0	949.5	943.1
40°	6074.9	5284.2	2985.0	1101.9	1003.5	987.6	949.5	911.4	895.5	886.0	889.2
42.5°	6141.6	5233.4	2591.3	1025.7	962.2	933.6	892.3	847.9	844.7	838.4	847.9
45°	6376.6	5296.9	2226.1	971.7	920.9	873.3	819.3	797.1	793.9	787.5	793.9
47.5°	6910.1	5455.7	1914.9	936.8	876.5	835.2	778.0	746.3	743.1	739.9	739.9
50°	7646.8	5944.7	1654.5	895.5	847.9	790.7	736.7	701.8	695.5	682.8	682.8
52.5°	8802.7	6767.2	1498.9	873.3	797.1	749.4	692.3	654.2	638.3	625.6	625.6
55°	10104.7	7786.5	1470.3	835.2	743.1	698.6	647.8	609.7	593.8	578.0	571.6
57.5°	11587.7	9136.2	1673.5	809.8	705.0	647.8	590.7	555.7	543.0	527.1	520.8
60°	12969.1	10482.6	2305.5	771.7	670.0	600.2	543.0	508.1	492.2	476.3	476.3
62.5°	14566.4	12149.8	3375.6	771.7	638.3	549.4	492.2	466.8	457.3	441.4	438.2
65°	16455.9	13874.1	4156.8	819.3	628.8	504.9	444.6	419.2	409.7	400.1	396.9
67.5°	17894.4	14864.9	3575.7	946.3	670.0	466.8	396.9	381.1	374.7	365.2	358.8
70°	18046.8	14261.5	2156.2	1022.5	711.3	428.7	355.7	339.8	339.8	330.3	323.9
72.5°	16678.2	12654.7	1451.2	911.4	644.6	384.2	314.4	301.7	295.3	289.0	285.8
75°	13956.7	10733.5	1146.4	727.2	495.4	317.6	273.1	260.4	250.9	247.7	241.3
77.5°	9374.3	6976.8	847.9	568.4	365.2	257.2	228.6	215.9	206.4	203.2	193.7
80°	3601.1	2658.0	546.2	412.8	257.2	203.2	181.0	168.3	162.0	152.4	146.1
82.5°	1060.6	860.6	304.9	254.0	165.1	139.7	130.2	120.7	111.1	101.6	98.4
85°	438.2	393.8	187.4	133.4	101.6	82.6	76.2	66.7	57.2	50.8	44.5
87.5°	203.2	168.3	85.7	50.8	34.9	19.1	9.5	3.2	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)