

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: P480097

Luminaire Tested: **IFLD-L-SA8A-735-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480097  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-735-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

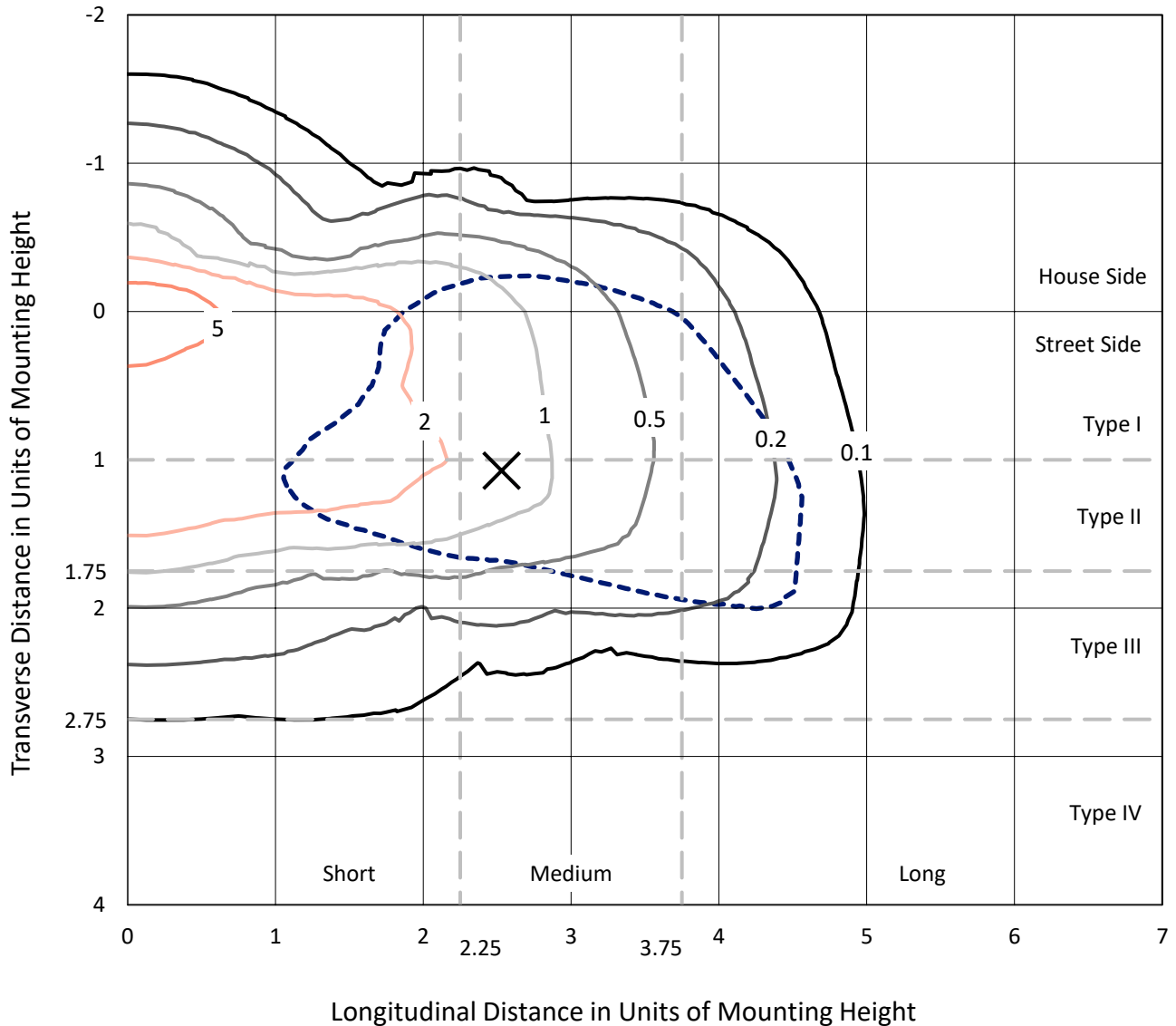
Lumens per Lamp: N/A  
Luminaire Lumens: 33687.5 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8  
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

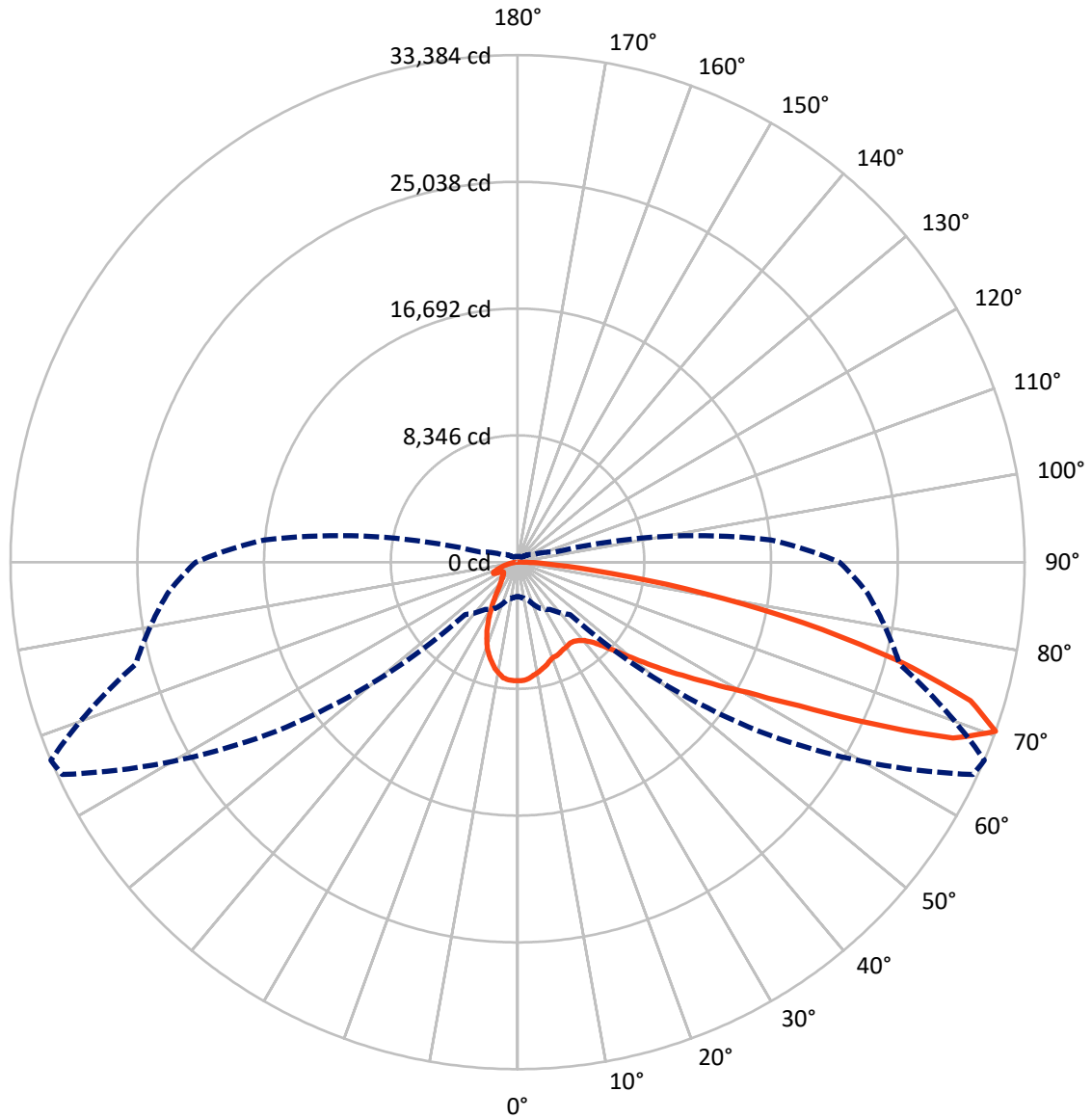
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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	6561.0	0.0	6561.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	27126.6	0.0	27126.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	33687.5	0.0	33687.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	680.4	2.0
10°-20°	1629.6	4.8
20°-30°	2200.7	6.5
30°-40°	2944.7	8.7
40°-50°	4330.2	12.9
50°-60°	6749.6	20.0
60°-70°	8314.4	24.7
70°-80°	5874.9	17.4
80°-90°	962.9	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°	33687.5	100.0
0°-180°	33687.5	100.0

**Coefficient of Utilization**



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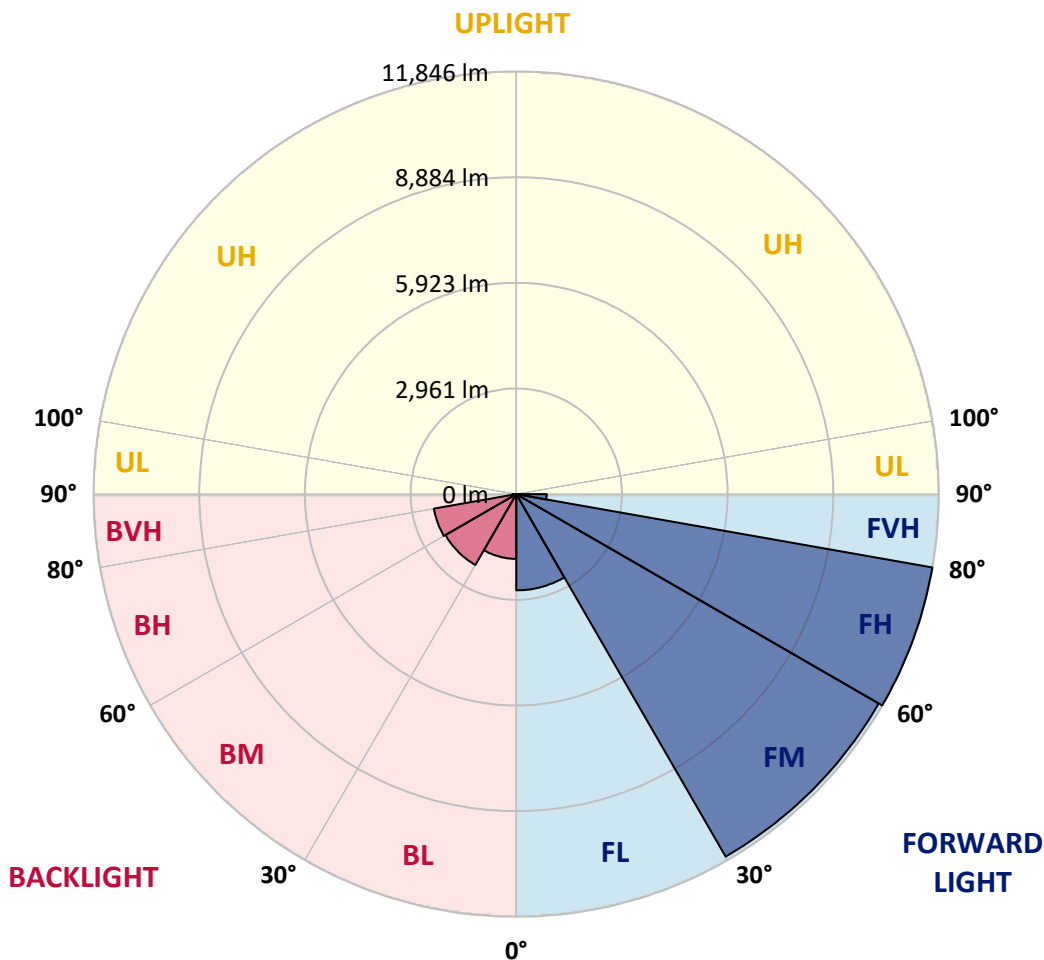
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2696.4	8.0			
FM (30°-60°)	11732.6	34.8			
FH (60°-80°)	11845.7	35.2			G4/12000
FVH (80°-90°)	851.8	2.5			G5
BL (0°-30°)	1814.3	5.4	B3/2500		
BM (30°-60°)	2291.9	6.8	B2/2500		
BH (60°-80°)	2343.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	111.1	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6
2.5°	7261.5	7343.5	7373.4	7418.1	7533.8	7619.5	7671.7	7731.4	7802.3	7862.0	7899.3
5°	6754.3	6799.0	6869.9	6918.4	7063.8	7295.1	7451.7	7705.3	7697.9	7791.1	7932.8
7.5°	6262.0	6306.7	6340.3	6437.3	6646.1	6855.0	7142.1	7552.4	7522.6	7738.9	7958.9
10°	5956.1	5922.6	5933.8	6097.9	6262.0	6496.9	6858.7	7276.4	7384.6	7720.2	8033.5
12.5°	5669.0	5631.7	5721.2	5825.6	6027.0	6239.6	6672.2	7048.9	7213.0	7653.1	8067.1
15°	5489.9	5463.8	5575.7	5620.5	5859.2	6112.8	6418.6	6877.3	7056.4	7571.0	8014.9
17.5°	5389.2	5411.6	5452.6	5549.6	5702.5	5918.8	6254.5	6761.7	6840.1	7470.4	8003.7
20°	5407.9	5434.0	5437.7	5478.8	5583.2	5751.0	6094.1	6638.7	6690.9	7451.7	8033.5
22.5°	5557.1	5519.8	5534.7	5508.6	5538.4	5669.0	5971.1	6474.6	6676.0	7295.1	7970.1
25°	5780.9	5728.6	5721.2	5631.7	5575.7	5613.0	5948.7	6433.5	6564.1	7246.6	7966.4
27.5°	6176.2	6097.9	6097.9	5963.6	5736.1	5676.4	5885.3	6366.4	6482.0	7201.8	7880.6
30°	6556.6	6556.6	6560.3	6370.1	6116.5	5821.9	5911.4	6340.3	6414.9	7067.6	7765.0
32.5°	7019.1	7007.9	6989.2	6896.0	6504.4	6064.3	6038.2	6306.7	6344.0	7022.8	7731.4
35°	7470.4	7440.5	7586.0	7503.9	7104.9	6538.0	6168.7	6321.6	6403.7	6955.7	7627.0
37.5°	7809.7	7828.4	8130.5	8182.7	7839.6	7075.0	6538.0	6470.8	6549.1	7052.6	7627.0
40°	8249.8	8324.4	8607.9	8783.2	8574.3	7783.6	7123.5	6720.7	6776.6	7269.0	7791.1
42.5°	8827.9	8891.3	9253.1	9480.6	9420.9	8686.2	7701.6	7242.8	7198.1	7630.7	8037.2
45°	9592.5	9603.7	9969.2	10282.5	10405.5	9629.8	8619.1	7903.0	7865.7	8253.6	8488.5
47.5°	10502.5	10491.3	10718.8	11054.5	11386.4	10756.1	9674.5	8906.2	8772.0	9144.9	9238.2
50°	11382.7	11334.2	11386.4	11815.3	12453.1	12165.9	10957.5	10133.3	9999.0	10204.1	10364.5
52.5°	11867.5	11927.2	11785.5	12352.4	13586.9	13833.0	12658.2	11599.0	11483.4	11584.1	11863.8
55°	11528.1	11651.2	11558.0	12095.0	14082.9	15865.6	14858.7	13296.0	13146.8	13109.5	13568.2
57.5°	10084.8	10308.6	10327.2	11177.6	13911.3	17439.5	17954.2	15298.7	15075.0	14694.6	15168.2
60°	7742.6	7966.4	8137.9	9144.9	12441.9	18379.4	21542.1	18148.1	17409.7	16425.1	16708.5
62.5°	5426.5	5579.5	5751.0	6370.1	9592.5	17827.4	24645.1	22161.2	20799.9	18248.8	18603.2
65°	3953.4	4072.7	4248.0	4613.5	5892.7	14750.5	26084.7	26927.6	25637.1	20568.6	20523.9
67.5°	2976.2	3050.8	3282.0	3867.6	4083.9	9111.4	24592.9	31962.5	30918.2	23145.8	22067.9
70°	2252.7	2316.1	2532.4	3334.2	3815.4	4885.8	19401.3	33085.1	33383.5	26036.2	23104.8
72.5°	1551.5	1622.4	1864.8	2778.5	3632.6	3875.0	12177.1	30056.7	31186.8	27225.9	21993.3
75°	951.0	999.5	1141.3	2107.2	3606.5	3789.3	6702.1	24630.2	25827.4	25156.0	19240.9
77.5°	671.3	667.6	693.7	1234.5	3125.4	3811.6	4132.4	18047.4	19211.1	18539.7	13057.3
80°	488.6	492.3	518.4	738.5	2122.1	3875.0	3255.9	12087.6	12434.4	9667.1	5150.6
82.5°	294.6	309.6	373.0	499.8	1275.5	3498.3	3009.8	6717.0	6284.3	3103.0	1417.2
85°	156.6	156.6	220.0	317.0	678.8	2610.7	2897.9	3196.3	2677.8	962.2	525.9
87.5°	37.3	37.3	63.4	126.8	272.3	1249.4	1976.7	1271.8	1018.2	324.5	216.3
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°	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6	7798.6
2.5°	7884.3	7839.6	7895.5	7783.6	7694.1	7697.9	7559.9	7552.4	7533.8	7436.8	7470.4
5°	7973.8	7936.5	7873.1	7750.1	7552.4	7354.7	7235.4	7082.5	7019.1	6985.5	7000.4
7.5°	8059.6	7992.5	7809.7	7638.2	7332.4	6959.4	6743.1	6538.0	6276.9	6247.0	6194.8
10°	8082.0	7940.3	7705.3	7339.8	6933.3	6519.3	6027.0	5646.6	5445.2	5288.5	5228.9
12.5°	8048.4	7988.8	7537.5	7067.6	6452.2	5803.2	5228.9	4691.8	4318.9	4124.9	4072.7
15°	8044.7	7940.3	7351.0	6653.6	5866.6	5020.0	4203.2	3558.0	3166.4	3006.0	3006.0
17.5°	8048.4	7798.6	7131.0	6235.9	5176.7	4031.7	3132.8	2603.2	2386.9	2364.6	2383.2
20°	7973.8	7694.1	6899.7	5743.6	4311.4	3028.4	2275.0	2058.7	2058.7	2088.6	2099.8
22.5°	7906.7	7537.5	6534.2	5135.6	3431.2	2193.0	1849.9	1786.5	1857.3	1909.5	1931.9
25°	7813.5	7406.9	6161.3	4505.3	2610.7	1767.8	1607.4	1622.4	1689.5	1782.7	1775.3
27.5°	7679.2	7179.4	5717.4	3774.3	1943.1	1525.4	1484.4	1491.8	1562.7	1603.7	1596.3
30°	7526.3	6948.2	5307.2	3047.1	1540.3	1398.6	1394.9	1413.5	1424.7	1447.1	1443.3
32.5°	7332.4	6642.4	4870.8	2368.3	1387.4	1327.7	1312.8	1301.6	1312.8	1309.1	1297.9
35°	7194.4	6478.3	4427.0	1805.1	1301.6	1264.3	1253.1	1234.5	1219.6	1197.2	1193.5
37.5°	7157.1	6314.2	3960.8	1473.2	1234.5	1215.8	1178.5	1145.0	1126.3	1115.1	1107.7
40°	7134.7	6206.0	3505.8	1294.2	1178.5	1159.9	1115.1	1070.4	1051.7	1040.6	1044.3
42.5°	7213.0	6146.3	3043.3	1204.7	1130.1	1096.5	1048.0	995.8	992.1	984.6	995.8
45°	7489.0	6220.9	2614.4	1141.3	1081.6	1025.6	962.2	936.1	932.4	924.9	932.4
47.5°	8115.6	6407.4	2248.9	1100.2	1029.4	980.9	913.7	876.5	872.7	869.0	869.0
50°	8980.8	6981.8	1943.1	1051.7	995.8	928.7	865.3	824.2	816.8	801.9	801.9
52.5°	10338.4	7947.7	1760.4	1025.6	936.1	880.2	813.0	768.3	749.6	734.7	734.7
55°	11867.5	9144.9	1726.8	980.9	872.7	820.5	760.8	716.1	697.4	678.8	671.3
57.5°	13609.2	10730.0	1965.5	951.0	828.0	760.8	693.7	652.7	637.8	619.1	611.7
60°	15231.6	12311.3	2707.7	906.3	786.9	704.9	637.8	596.7	578.1	559.4	559.4
62.5°	17107.6	14269.4	3964.5	906.3	749.6	645.2	578.1	548.2	537.1	518.4	514.7
65°	19326.7	16294.5	4882.0	962.2	738.5	593.0	522.1	492.3	481.1	469.9	466.2
67.5°	21016.2	17458.2	4199.5	1111.4	786.9	548.2	466.2	447.5	440.1	428.9	421.4
70°	21195.2	16749.5	2532.4	1200.9	835.4	503.5	417.7	399.1	399.1	387.9	380.4
72.5°	19587.8	14862.4	1704.4	1070.4	757.1	451.3	369.2	354.3	346.9	339.4	335.7
75°	16391.5	12606.0	1346.4	854.1	581.8	373.0	320.7	305.8	294.6	290.9	283.4
77.5°	11009.7	8193.9	995.8	667.6	428.9	302.1	268.5	253.6	242.4	238.7	227.5
80°	4229.3	3121.7	641.5	484.8	302.1	238.7	212.6	197.7	190.2	179.0	171.6
82.5°	1245.7	1010.7	358.0	298.4	193.9	164.1	152.9	141.7	130.5	119.3	115.6
85°	514.7	462.5	220.0	156.6	119.3	97.0	89.5	78.3	67.1	59.7	52.2
87.5°	238.7	197.7	100.7	59.7	41.0	22.4	11.2	3.7	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)