

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: P480460

Luminaire Tested: **IFLD-S-SA3D-735-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480460  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-735-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

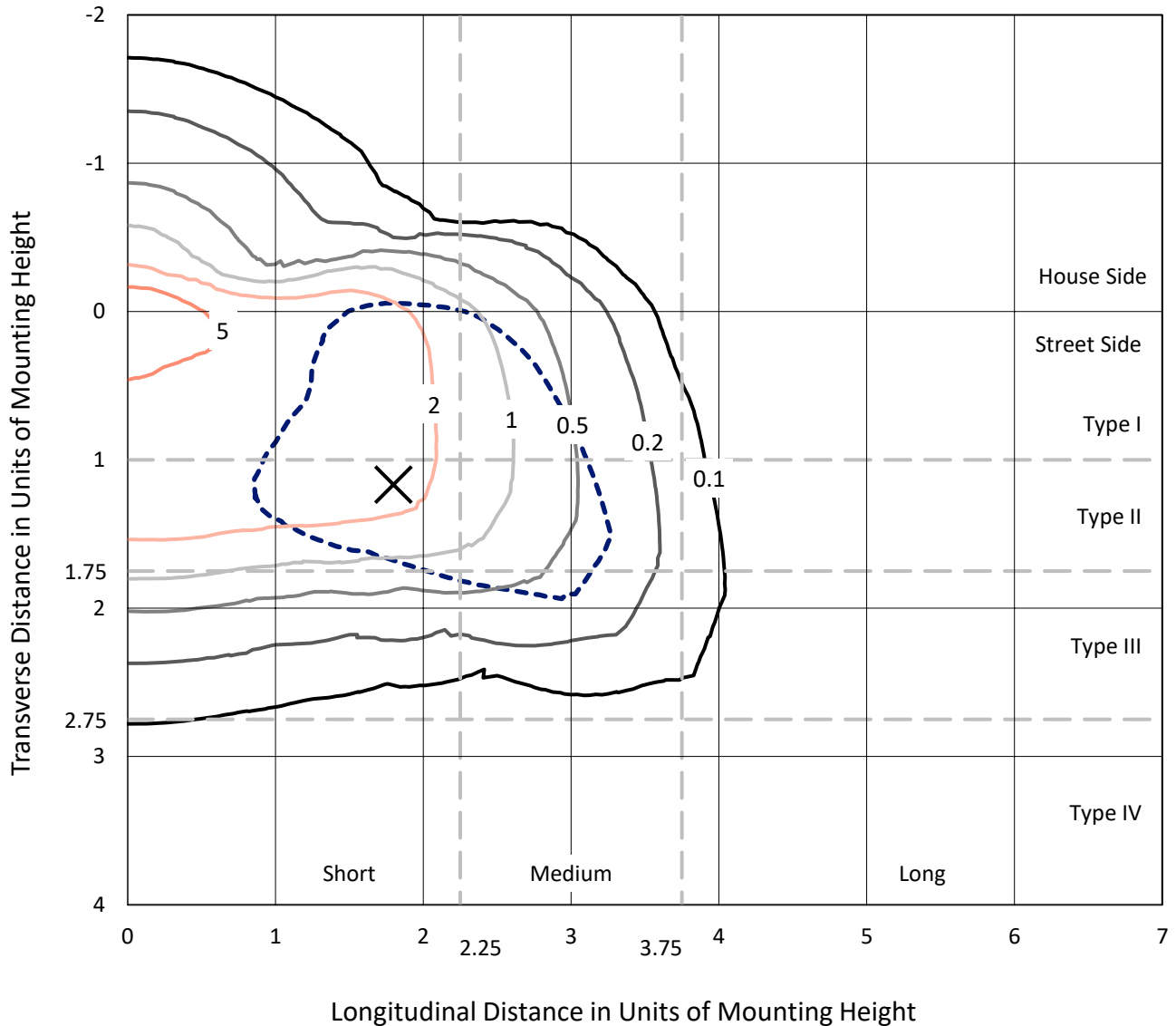
Lumens per Lamp: N/A  
Luminaire Lumens: 22682.6 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1  
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

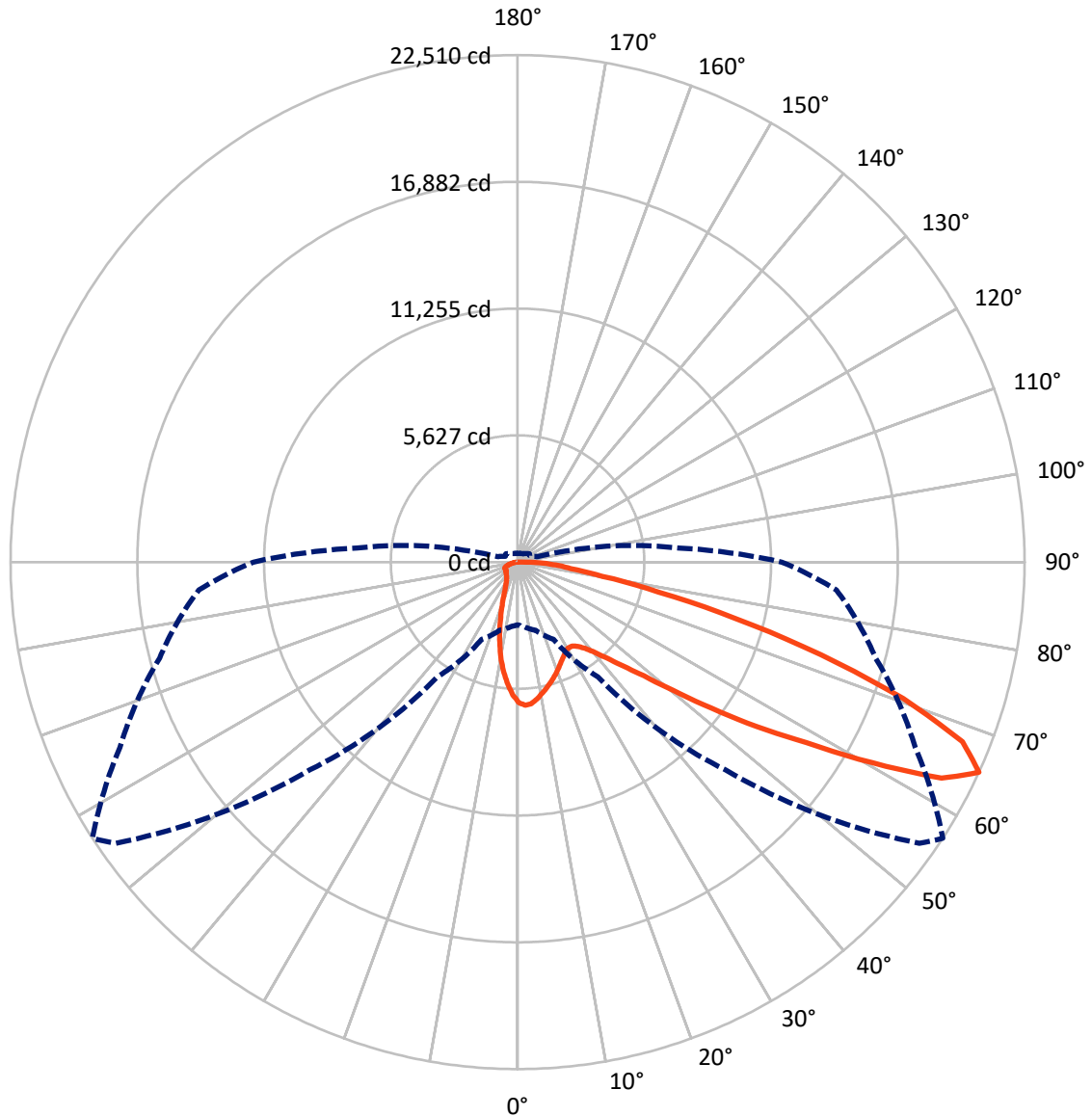
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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
<b>House Side</b>	Lumens	3478.6	0.0	3478.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	19204.0	0.0	19204.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	22682.6	0.0	22682.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.3	2.3
10°-20°	1124.1	5.0
20°-30°	1453.4	6.4
30°-40°	1955.8	8.6
40°-50°	3118.6	13.7
50°-60°	5508.3	24.3
60°-70°	6059.9	26.7
70°-80°	2534.9	11.2
80°-90°	405.1	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°	22682.6	100.0
0°-180°	22682.6	100.0

**Coefficient of Utilization**



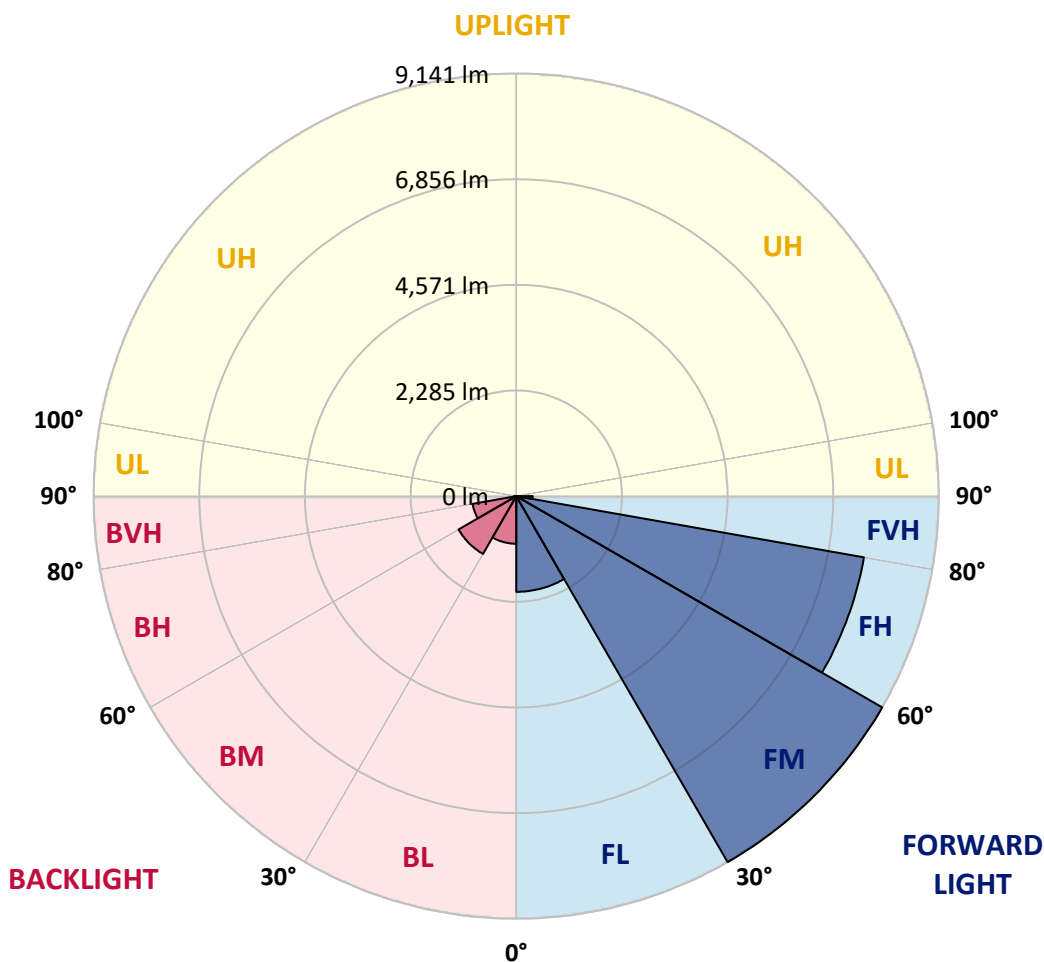
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.7	9.1			
FM (30°-60°)	9141.0	40.3			
FH (60°-80°)	7635.6	33.7			G4/12000
FVH (80°-90°)	357.6	1.6			G3/500
BL (0°-30°)	1030.2	4.5	B3/2500		
BM (30°-60°)	1441.7	6.4	B2/2500		
BH (60°-80°)	959.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	47.5	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4
2.5°	6405.8	6416.0	6416.0	6436.4	6367.5	6400.7	6395.6	6365.0	6375.2	6321.6	6268.0
5°	6224.6	6217.0	6257.8	6262.9	6316.5	6331.8	6344.6	6324.2	6329.3	6211.9	6160.8
7.5°	5760.1	5757.6	5826.5	5885.2	5997.5	6102.1	6171.0	6150.6	6178.7	6104.7	5984.7
10°	5208.9	5267.6	5339.0	5397.7	5604.5	5737.2	5915.8	5933.7	6040.9	6023.0	5806.1
12.5°	4795.4	4821.0	4874.6	5043.0	5231.8	5451.3	5706.5	5729.5	5834.1	5885.2	5696.3
15°	4456.0	4479.0	4547.9	4672.9	4884.8	5145.1	5469.2	5527.9	5737.2	5755.0	5553.4
17.5°	4208.4	4226.3	4272.3	4397.3	4570.8	4905.2	5211.4	5316.1	5591.7	5678.5	5405.4
20°	4111.5	4073.2	4098.7	4177.8	4351.4	4609.1	5004.7	5096.6	5448.8	5619.8	5265.0
22.5°	4068.1	4034.9	4050.2	4045.1	4182.9	4366.7	4782.7	4879.7	5313.5	5550.9	5140.0
25°	4101.3	4101.3	4085.9	4073.2	4088.5	4208.4	4542.8	4693.4	5132.3	5492.2	5012.4
27.5°	4279.9	4211.0	4218.7	4165.1	4149.7	4149.7	4435.6	4524.9	5073.6	5459.0	4907.7
30°	4394.8	4427.9	4430.5	4351.4	4272.3	4129.3	4336.1	4422.8	5025.1	5499.8	4846.5
32.5°	4688.2	4672.9	4629.5	4614.2	4496.8	4336.1	4384.5	4443.2	4997.1	5591.7	4864.3
35°	4981.7	4974.1	4976.6	4969.0	4846.5	4609.1	4514.7	4593.8	5048.1	5752.5	4925.6
37.5°	5285.4	5305.9	5392.6	5392.6	5262.5	5004.7	4879.7	4856.7	5234.4	6015.3	5071.1
40°	5589.1	5640.2	5749.9	5923.5	5739.7	5499.8	5298.2	5262.5	5459.0	6367.5	5420.7
42.5°	5880.1	5964.3	6181.2	6439.0	6377.7	6137.9	5869.9	5829.0	5920.9	6890.7	5908.2
45°	6252.7	6324.2	6666.1	7061.7	7145.9	6934.1	6620.2	6587.0	6581.9	7656.4	6579.4
47.5°	6819.3	6895.8	7237.8	7635.9	7896.3	7929.4	7577.2	7541.5	7419.0	8690.0	7561.9
50°	7528.8	7653.8	7942.2	8406.7	8784.4	9139.1	9039.6	8935.0	8695.1	9892.0	8807.4
52.5°	8046.8	8200.0	8590.4	9185.1	9851.2	10415.2	10772.5	10772.5	10221.2	11211.5	10305.5
55°	8184.7	8276.5	8769.1	9629.2	10769.9	12196.6	12944.4	12888.2	12038.4	12599.8	12048.6
57.5°	7635.9	7755.9	8353.1	9254.0	11252.3	13863.1	15100.9	15113.7	14023.9	14212.8	13768.7
60°	6125.1	6163.4	6867.8	8072.4	10787.8	15205.5	18046.0	18094.5	16282.5	15649.6	14644.1
62.5°	4234.0	4356.5	4887.3	5943.9	8937.5	15055.0	20886.6	21126.5	18092.0	16407.6	14781.9
65°	2786.9	2860.9	3144.2	3787.3	6222.1	13049.0	21769.6	22509.7	19475.2	16451.0	14205.1
67.5°	2021.3	2034.0	2118.3	2450.0	3738.9	9384.1	20261.3	21305.1	19993.3	16088.6	12852.5
70°	1633.4	1643.6	1674.2	1886.0	2414.3	5872.4	16525.0	18160.9	18439.1	14371.0	10351.4
72.5°	1327.1	1339.9	1378.1	1577.2	1990.7	3266.7	12084.3	14077.5	14998.8	10632.1	6880.5
75°	1043.8	1054.0	1145.9	1342.4	1870.7	2243.3	8016.2	9968.6	10093.6	6214.4	3220.8
77.5°	714.6	732.5	844.8	1138.2	1761.0	1962.6	4997.1	6385.4	5729.5	2432.2	1107.6
80°	454.3	479.8	546.2	862.6	1556.8	1873.3	3108.5	3812.9	2508.7	832.0	533.4
82.5°	268.0	293.5	359.8	558.9	1222.5	1738.0	2189.7	2386.2	1176.5	426.2	321.6
85°	148.0	165.9	216.9	336.9	717.1	1544.0	1753.3	1712.5	673.8	227.1	201.6
87.5°	48.5	56.1	79.1	135.3	296.0	727.4	1051.5	987.7	349.6	104.6	79.1
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°	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4	6237.4
2.5°	6232.3	6224.6	6109.8	6023.0	5875.0	5752.5	5704.0	5637.6	5635.1	5586.6	5573.8
5°	6081.7	6002.6	5826.5	5658.1	5395.2	5219.1	5058.3	4946.0	4900.1	4800.5	4777.6
7.5°	5887.7	5783.1	5512.6	5196.1	4887.3	4611.7	4361.6	4111.5	3971.1	3922.6	3869.0
10°	5686.1	5502.4	5101.7	4746.9	4315.6	3892.0	3499.0	3146.8	2955.4	2820.1	2761.4
12.5°	5525.3	5280.3	4769.9	4239.1	3669.9	3103.4	2646.5	2276.5	2059.6	1957.5	1911.5
15°	5344.1	5020.0	4407.5	3736.3	3026.8	2383.7	1937.1	1646.1	1559.3	1510.9	1503.2
17.5°	5152.7	4777.6	4014.5	3241.2	2399.0	1794.1	1505.8	1388.4	1350.1	1329.7	1319.4
20°	4974.1	4560.6	3611.3	2689.9	1878.4	1439.4	1304.1	1242.9	1240.3	1250.5	1248.0
22.5°	4721.4	4277.4	3213.1	2179.5	1500.6	1253.1	1166.3	1151.0	1166.3	1179.1	1184.2
25°	4578.5	4045.1	2769.1	1730.3	1240.3	1112.7	1084.7	1079.5	1102.5	1117.8	1115.3
27.5°	4430.5	3805.2	2355.6	1385.8	1087.2	1013.2	1008.1	1013.2	1036.2	1059.1	1056.6
30°	4315.6	3613.8	1967.7	1158.7	969.8	941.7	936.6	941.7	954.5	957.0	957.0
32.5°	4221.2	3386.7	1638.5	1005.5	898.3	875.4	880.5	877.9	880.5	883.0	885.6
35°	4165.1	3251.4	1367.9	911.1	839.6	821.8	819.2	811.6	814.1	816.7	814.1
37.5°	4285.0	3185.0	1153.6	844.8	798.8	783.5	778.4	773.3	765.6	765.6	765.6
40°	4466.2	3149.3	1023.4	801.4	768.2	750.3	735.0	729.9	729.9	732.5	735.0
42.5°	4826.1	3208.0	934.1	768.2	729.9	709.5	694.2	696.7	704.4	712.0	706.9
45°	5346.7	3386.7	893.2	742.7	706.9	678.9	668.7	666.1	673.8	686.5	696.7
47.5°	6028.1	3664.8	877.9	719.7	691.6	653.3	640.6	648.2	658.4	676.3	668.7
50°	7143.4	4290.1	890.7	699.3	668.7	640.6	625.3	617.6	625.3	638.0	643.1
52.5°	8600.6	5425.8	939.2	689.1	653.3	630.4	604.9	592.1	599.7	610.0	610.0
55°	10343.7	6977.5	1074.4	676.3	627.8	615.1	587.0	561.5	566.6	566.6	564.0
57.5°	11880.1	8148.9	1235.2	658.4	612.5	594.6	558.9	528.3	523.2	525.7	528.3
60°	12569.2	8460.3	1311.8	653.3	612.5	569.1	520.6	490.0	482.4	477.2	477.2
62.5°	12449.2	7921.8	1156.1	630.4	627.8	548.7	484.9	451.7	441.5	431.3	433.9
65°	11724.4	7153.6	911.1	599.7	630.4	535.9	449.2	416.0	398.1	385.4	382.8
67.5°	10399.9	6107.2	722.3	576.8	604.9	513.0	418.5	380.3	365.0	352.2	347.1
70°	8136.2	4787.8	627.8	546.2	543.6	456.8	382.8	349.6	326.7	311.4	311.4
72.5°	5275.2	3026.8	538.5	484.9	469.6	382.8	331.8	311.4	293.5	280.7	280.7
75°	2388.8	1406.2	433.9	405.8	382.8	306.3	280.7	270.5	255.2	242.5	242.5
77.5°	857.5	599.7	324.1	319.0	285.8	237.3	227.1	219.5	209.3	196.5	196.5
80°	479.8	380.3	242.5	232.2	199.1	176.1	163.3	163.3	158.2	150.6	148.0
82.5°	303.7	247.6	178.6	155.7	130.2	117.4	112.3	109.7	107.2	97.0	94.4
85°	191.4	168.4	117.4	91.9	76.6	58.7	56.1	53.6	48.5	43.4	43.4
87.5°	86.8	97.0	45.9	28.1	20.4	12.8	7.7	2.6	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)