

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: P480247

Luminaire Tested: **IFLD-M-SA4E-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480247
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

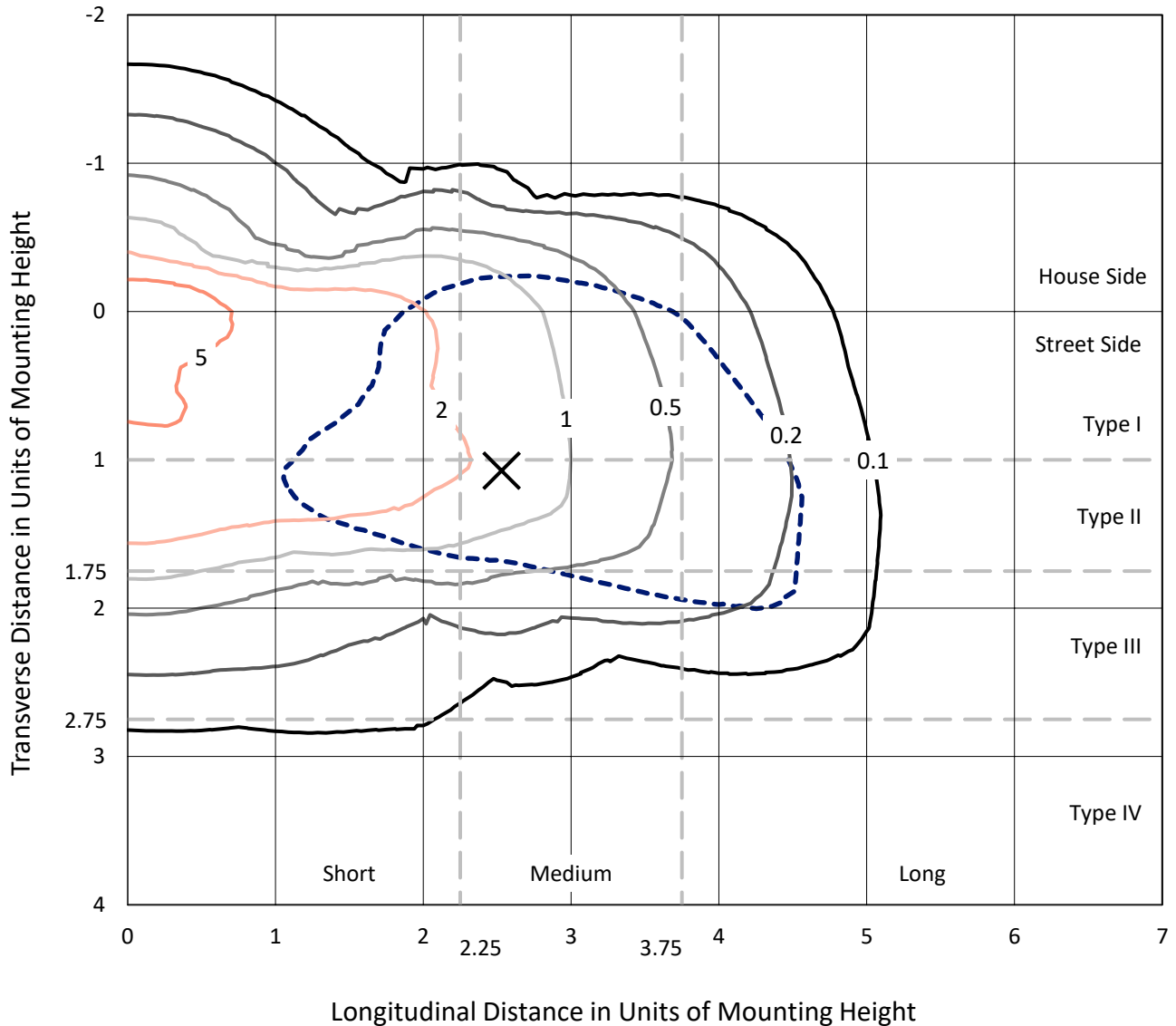
Lumens per Lamp: N/A
Luminaire Lumens: 26535.7 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

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

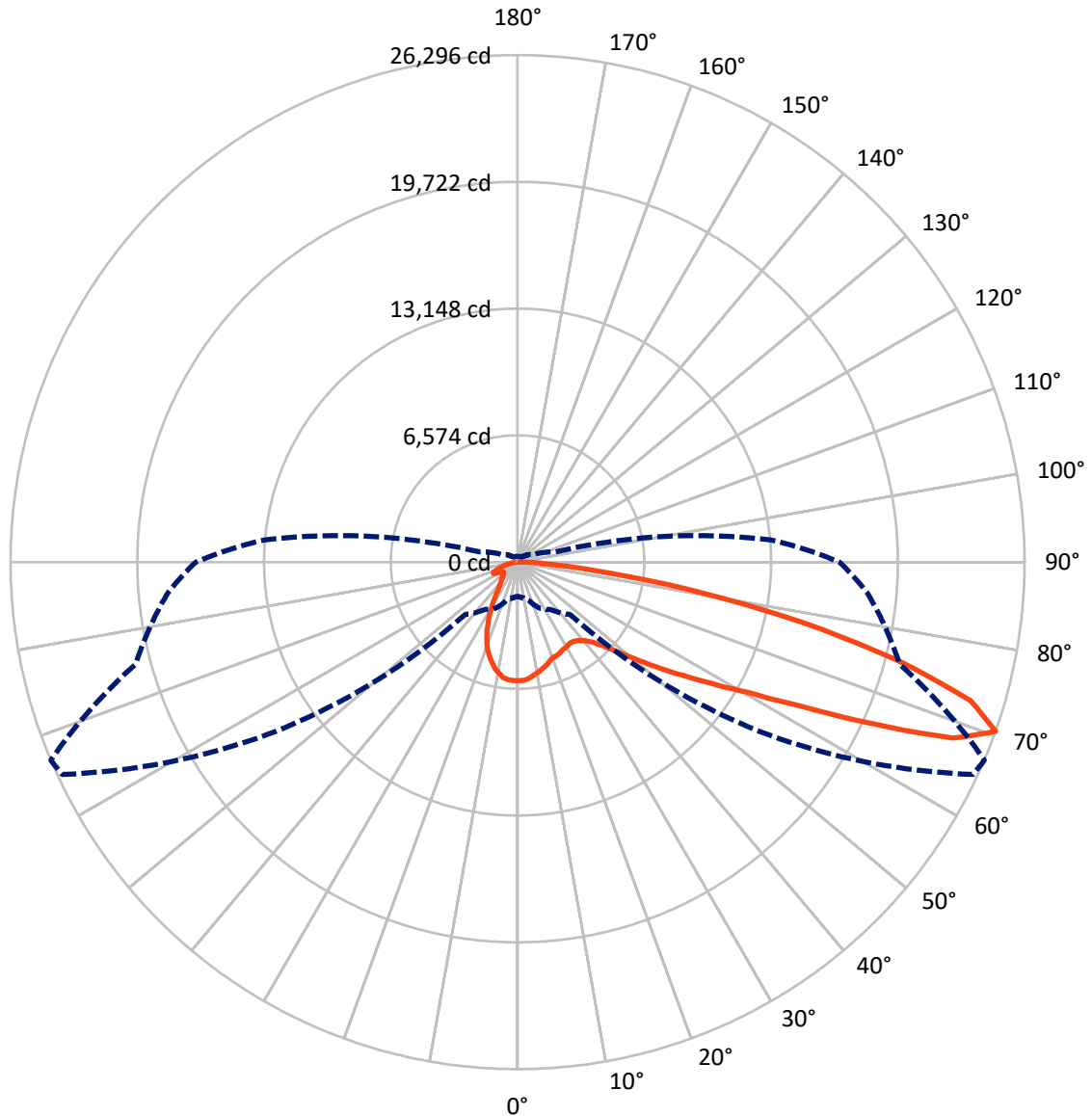
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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
House Side	Lumens	5168.1	0.0	5168.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21367.6	0.0	21367.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	26535.7	0.0	26535.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	2.0
10°-20°	1283.7	4.8
20°-30°	1733.5	6.5
30°-40°	2319.6	8.7
40°-50°	3410.9	12.9
50°-60°	5316.7	20.0
60°-70°	6549.3	24.7
70°-80°	4627.7	17.4
80°-90°	758.5	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°	26535.7	100.0
0°-180°	26535.7	100.0

Coefficient of Utilization



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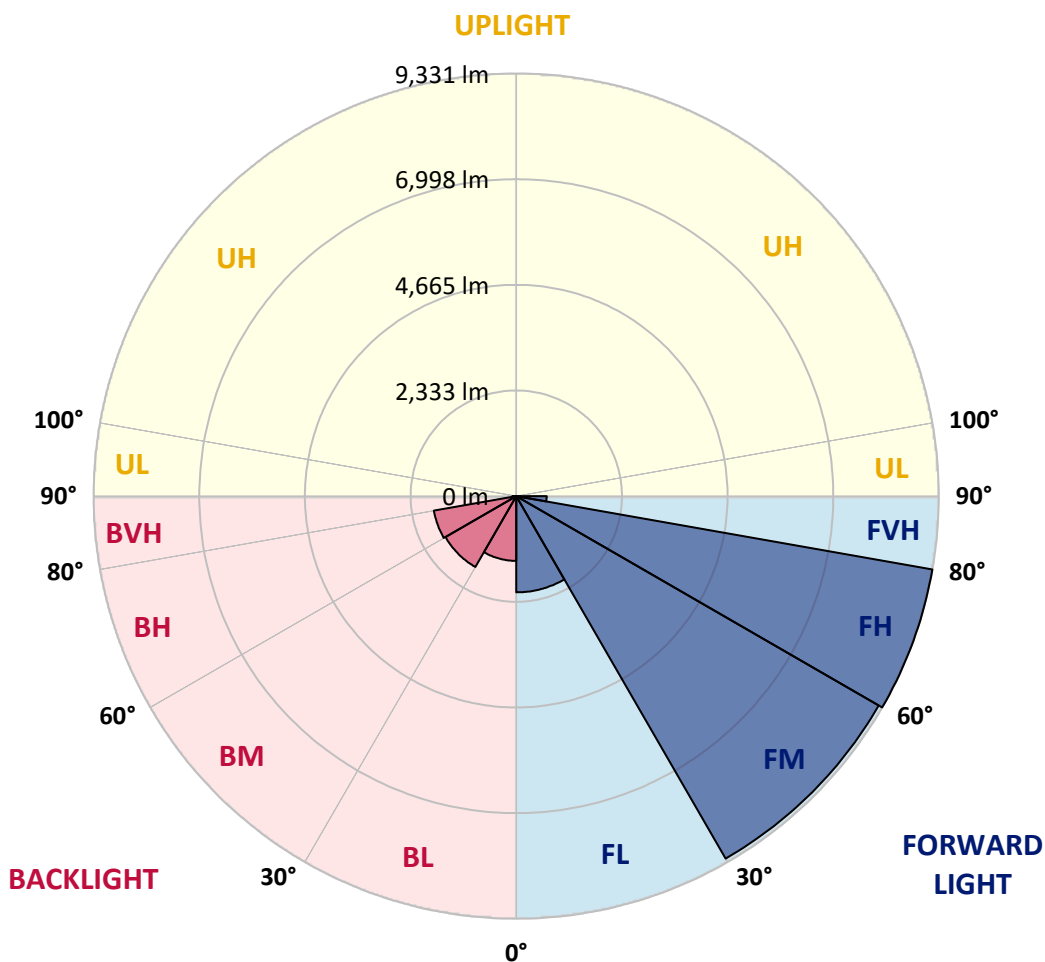
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.0	8.0			
FM (30°-60°)	9241.8	34.8			
FH (60°-80°)	9330.8	35.2			G4/12000
FVH (80°-90°)	671.0	2.5			G4/750
BL (0°-30°)	1429.1	5.4	B3/2500		
BM (30°-60°)	1805.3	6.8	B2/2500		
BH (60°-80°)	1846.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	87.5	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°	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9
2.5°	5719.9	5784.5	5808.0	5843.3	5934.3	6001.9	6043.0	6090.0	6145.9	6192.9	6222.2
5°	5320.3	5355.6	5411.4	5449.6	5564.2	5746.3	5869.7	6069.5	6063.6	6137.1	6248.7
7.5°	4932.6	4967.8	4994.3	5070.6	5235.1	5399.7	5625.9	5949.0	5925.5	6095.9	6269.3
10°	4691.7	4665.2	4674.0	4803.3	4932.6	5117.6	5402.6	5731.6	5816.8	6081.2	6328.0
12.5°	4465.4	4436.1	4506.6	4588.8	4747.5	4914.9	5255.7	5552.4	5681.7	6028.4	6354.4
15°	4324.4	4303.9	4392.0	4427.3	4615.3	4815.0	5055.9	5417.3	5558.3	5963.7	6313.3
17.5°	4245.1	4262.7	4295.1	4371.4	4491.9	4662.3	4926.7	5326.2	5387.9	5884.4	6304.5
20°	4259.8	4280.4	4283.3	4315.6	4397.9	4530.1	4800.4	5229.3	5270.4	5869.7	6328.0
22.5°	4377.3	4347.9	4359.7	4339.1	4362.6	4465.4	4703.4	5100.0	5258.7	5746.3	6278.1
25°	4553.6	4512.5	4506.6	4436.1	4392.0	4421.4	4685.8	5067.7	5170.5	5708.1	6275.1
27.5°	4865.0	4803.3	4803.3	4697.5	4518.3	4471.3	4635.8	5014.8	5105.9	5672.9	6207.6
30°	5164.6	5164.6	5167.6	5017.8	4818.0	4585.9	4656.4	4994.3	5053.0	5567.1	6116.5
32.5°	5528.9	5520.1	5505.4	5432.0	5123.5	4776.9	4756.3	4967.8	4997.2	5531.9	6090.0
35°	5884.4	5860.9	5975.5	5910.8	5596.5	5150.0	4859.1	4979.6	5044.2	5479.0	6007.8
37.5°	6151.7	6166.4	6404.4	6445.5	6175.2	5573.0	5150.0	5097.1	5158.8	5555.4	6007.8
40°	6498.4	6557.2	6780.4	6918.5	6754.0	6131.2	5611.2	5293.9	5338.0	5725.8	6137.1
42.5°	6953.8	7003.7	7288.7	7467.9	7420.9	6842.1	6066.5	5705.2	5669.9	6010.7	6330.9
45°	7556.0	7564.8	7852.7	8099.5	8196.4	7585.4	6789.2	6225.2	6195.8	6501.3	6686.4
47.5°	8272.8	8264.0	8443.2	8707.6	8969.1	8472.6	7620.6	7015.5	6909.7	7203.5	7276.9
50°	8966.1	8928.0	8969.1	9306.9	9809.3	9583.1	8631.2	7982.0	7876.2	8037.8	8164.1
52.5°	9348.1	9395.1	9283.4	9730.0	10702.4	10896.3	9970.9	9136.5	9045.5	9124.8	9345.1
55°	9080.7	9177.7	9104.2	9527.3	11093.1	12497.4	11704.2	10473.2	10355.7	10326.3	10687.7
57.5°	7943.8	8120.1	8134.8	8804.6	10958.0	13737.1	14142.5	12050.8	11874.6	11574.9	11948.0
60°	6098.9	6275.1	6410.3	7203.5	9800.5	14477.5	16968.7	14295.3	13713.6	12938.0	13161.3
62.5°	4274.5	4394.9	4530.1	5017.8	7556.0	14042.7	19412.9	17456.4	16384.1	14374.6	14653.7
65°	3114.1	3208.1	3346.1	3634.1	4641.7	11619.0	20546.9	21210.9	20194.4	16201.9	16166.7
67.5°	2344.4	2403.1	2585.3	3046.5	3216.9	7177.0	19371.8	25176.9	24354.3	18232.0	17382.9
70°	1774.4	1824.4	1994.8	2626.4	3005.4	3848.5	15282.4	26061.2	26296.2	20508.7	18199.6
72.5°	1222.1	1277.9	1468.9	2188.7	2861.4	3052.4	9591.9	23675.7	24565.8	21445.9	17324.2
75°	749.1	787.3	899.0	1659.9	2840.8	2984.8	5279.2	19401.2	20344.2	19815.4	15156.1
77.5°	528.8	525.9	546.4	972.4	2461.9	3002.4	3255.1	14216.0	15132.6	14603.8	10285.2
80°	384.9	387.8	408.4	581.7	1671.6	3052.4	2564.7	9521.4	9794.6	7614.8	4057.1
82.5°	232.1	243.8	293.8	393.7	1004.7	2755.7	2370.8	5291.0	4950.2	2444.2	1116.4
85°	123.4	123.4	173.3	249.7	534.7	2056.5	2282.7	2517.7	2109.3	758.0	414.2
87.5°	29.4	29.4	49.9	99.9	214.5	984.2	1557.0	1001.8	802.0	255.6	170.4
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°	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9	6142.9
2.5°	6210.5	6175.2	6219.3	6131.2	6060.7	6063.6	5954.9	5949.0	5934.3	5858.0	5884.4
5°	6281.0	6251.6	6201.7	6104.7	5949.0	5793.3	5699.3	5578.9	5528.9	5502.5	5514.2
7.5°	6348.6	6295.7	6151.7	6016.6	5775.7	5481.9	5311.5	5150.0	4944.3	4920.8	4879.7
10°	6366.2	6254.6	6069.5	5781.6	5461.4	5135.3	4747.5	4447.8	4289.2	4165.8	4118.8
12.5°	6339.8	6292.8	5937.3	5567.1	5082.4	4571.2	4118.8	3695.7	3402.0	3249.2	3208.1
15°	6336.8	6254.6	5790.4	5241.0	4621.2	3954.3	3310.9	2802.7	2494.2	2367.9	2367.9
17.5°	6339.8	6142.9	5617.1	4912.0	4077.7	3175.8	2467.7	2050.6	1880.2	1862.6	1877.3
20°	6281.0	6060.7	5434.9	4524.2	3396.1	2385.5	1792.1	1621.7	1621.7	1645.2	1654.0
22.5°	6228.1	5937.3	5147.0	4045.3	2702.8	1727.4	1457.1	1407.2	1463.0	1504.2	1521.8
25°	6154.7	5834.5	4853.2	3548.9	2056.5	1392.5	1266.2	1277.9	1330.8	1404.3	1398.4
27.5°	6048.9	5655.3	4503.6	2973.0	1530.6	1201.6	1169.2	1175.1	1230.9	1263.3	1257.4
30°	5928.5	5473.1	4180.5	2400.2	1213.3	1101.7	1098.7	1113.4	1122.2	1139.9	1136.9
32.5°	5775.7	5232.2	3836.8	1865.5	1092.9	1045.9	1034.1	1025.3	1034.1	1031.2	1022.4
35°	5667.0	5102.9	3487.2	1421.9	1025.3	995.9	987.1	972.4	960.7	943.0	940.1
37.5°	5637.6	4973.7	3119.9	1160.4	972.4	957.7	928.3	901.9	887.2	878.4	872.5
40°	5620.0	4888.5	2761.5	1019.4	928.3	913.7	878.4	843.1	828.5	819.6	822.6
42.5°	5681.7	4841.5	2397.2	948.9	890.2	863.7	825.5	784.4	781.5	775.6	784.4
45°	5899.1	4900.2	2059.4	899.0	852.0	807.9	758.0	737.4	734.4	728.6	734.4
47.5°	6392.6	5047.1	1771.5	866.6	810.8	772.6	719.8	690.4	687.4	684.5	684.5
50°	7074.2	5499.6	1530.6	828.5	784.4	731.5	681.6	649.3	643.4	631.6	631.6
52.5°	8143.6	6260.4	1386.6	807.9	737.4	693.3	640.4	605.2	590.5	578.7	578.7
55°	9348.1	7203.5	1360.2	772.6	687.4	646.3	599.3	564.1	549.4	534.7	528.8
57.5°	10720.0	8452.0	1548.2	749.1	652.2	599.3	546.4	514.1	502.4	487.7	481.8
60°	11998.0	9697.7	2132.8	713.9	619.9	555.2	502.4	470.0	455.4	440.7	440.7
62.5°	13475.7	11240.0	3122.9	713.9	590.5	508.2	455.4	431.9	423.0	408.4	405.4
65°	15223.7	12835.2	3845.6	758.0	581.7	467.1	411.3	387.8	379.0	370.2	367.2
67.5°	16554.5	13751.8	3308.0	875.5	619.9	431.9	367.2	352.5	346.7	337.8	332.0
70°	16695.5	13193.6	1994.8	946.0	658.1	396.6	329.0	314.3	314.3	305.5	299.7
72.5°	15429.3	11707.1	1342.6	843.1	596.4	355.5	290.8	279.1	273.2	267.3	264.4
75°	12911.6	9929.7	1060.5	672.8	458.3	293.8	252.7	240.9	232.1	229.1	223.3
77.5°	8672.4	6454.3	784.4	525.9	337.8	238.0	211.5	199.8	191.0	188.0	179.2
80°	3331.5	2458.9	505.3	381.9	238.0	188.0	167.5	155.7	149.8	141.0	135.1
82.5°	981.2	796.1	282.0	235.0	152.8	129.3	120.4	111.6	102.8	94.0	91.1
85°	405.4	364.3	173.3	123.4	94.0	76.4	70.5	61.7	52.9	47.0	41.1
87.5°	188.0	155.7	79.3	47.0	32.3	17.6	8.8	2.9	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)