

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: P480110

Luminaire Tested: **IFLD-S-SA3E-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480110  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-740-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

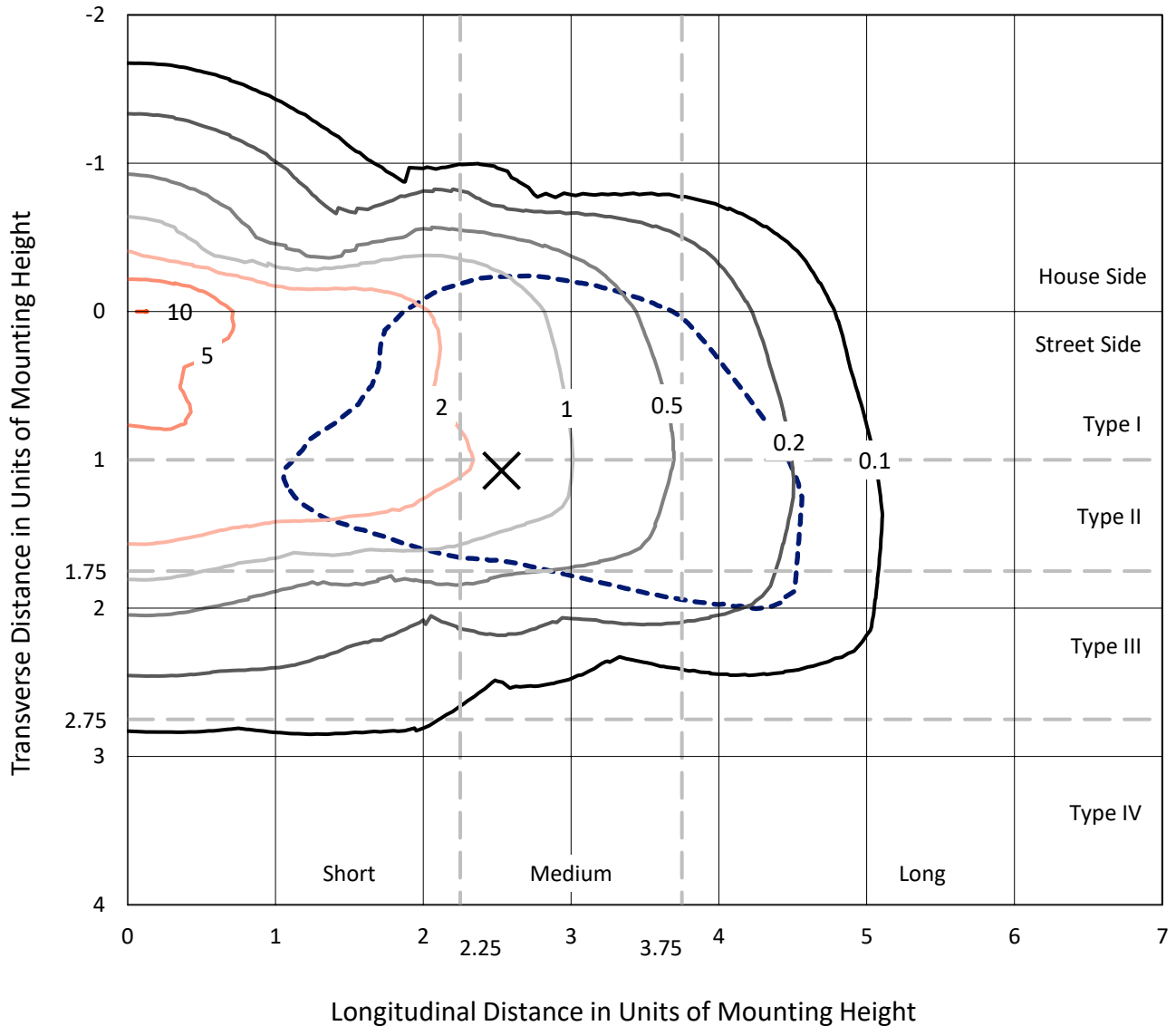
Lumens per Lamp: N/A  
Luminaire Lumens: 26894 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1  
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

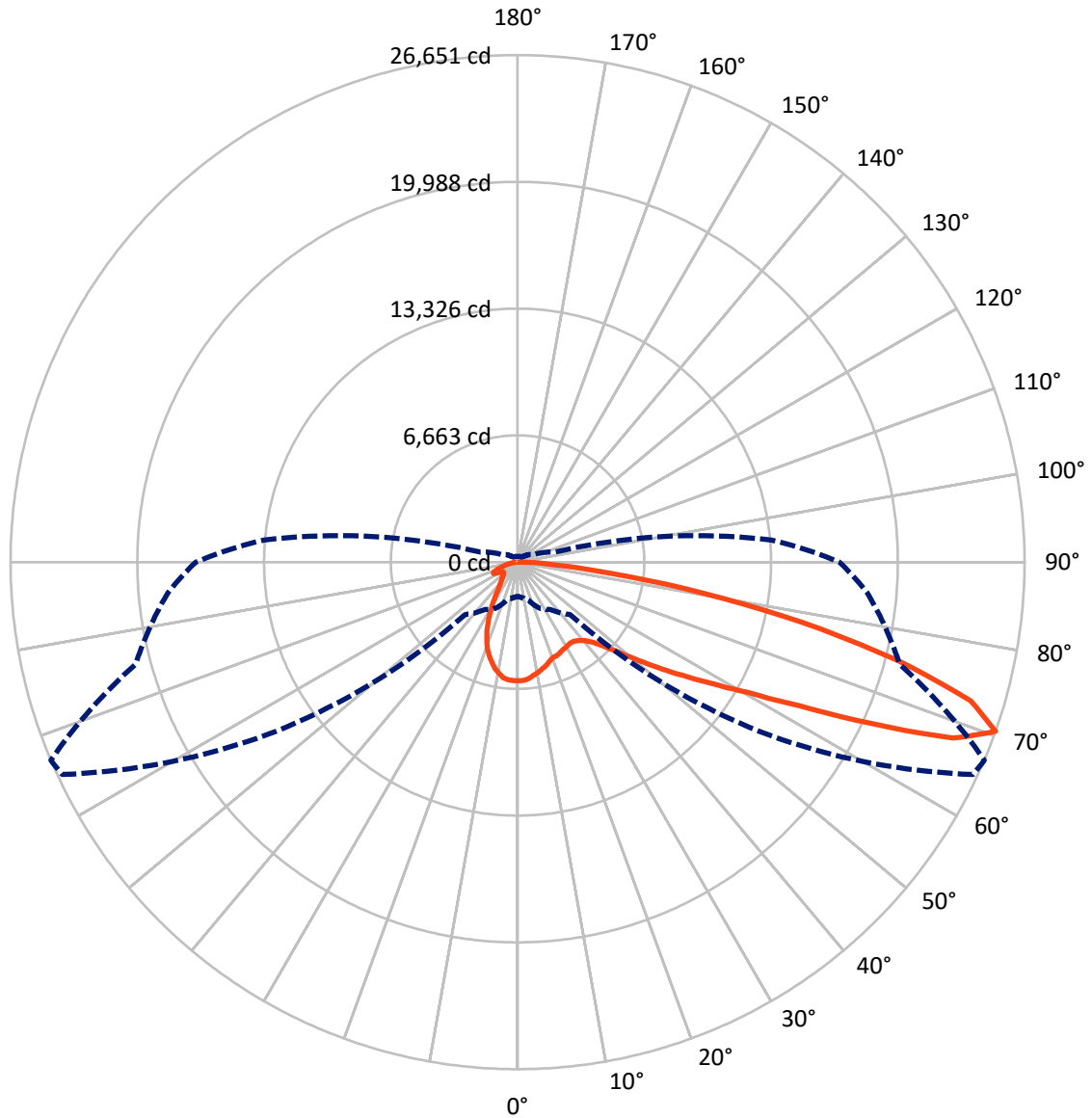
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - 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	5237.9	0.0	5237.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	21656.1	0.0	21656.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	26894.0	0.0	26894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.2	2.0
10°-20°	1301.0	4.8
20°-30°	1756.9	6.5
30°-40°	2350.9	8.7
40°-50°	3456.9	12.9
50°-60°	5388.5	20.0
60°-70°	6637.7	24.7
70°-80°	4690.1	17.4
80°-90°	768.7	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°	26894.0	100.0
0°-180°	26894.0	100.0

**Coefficient of Utilization**



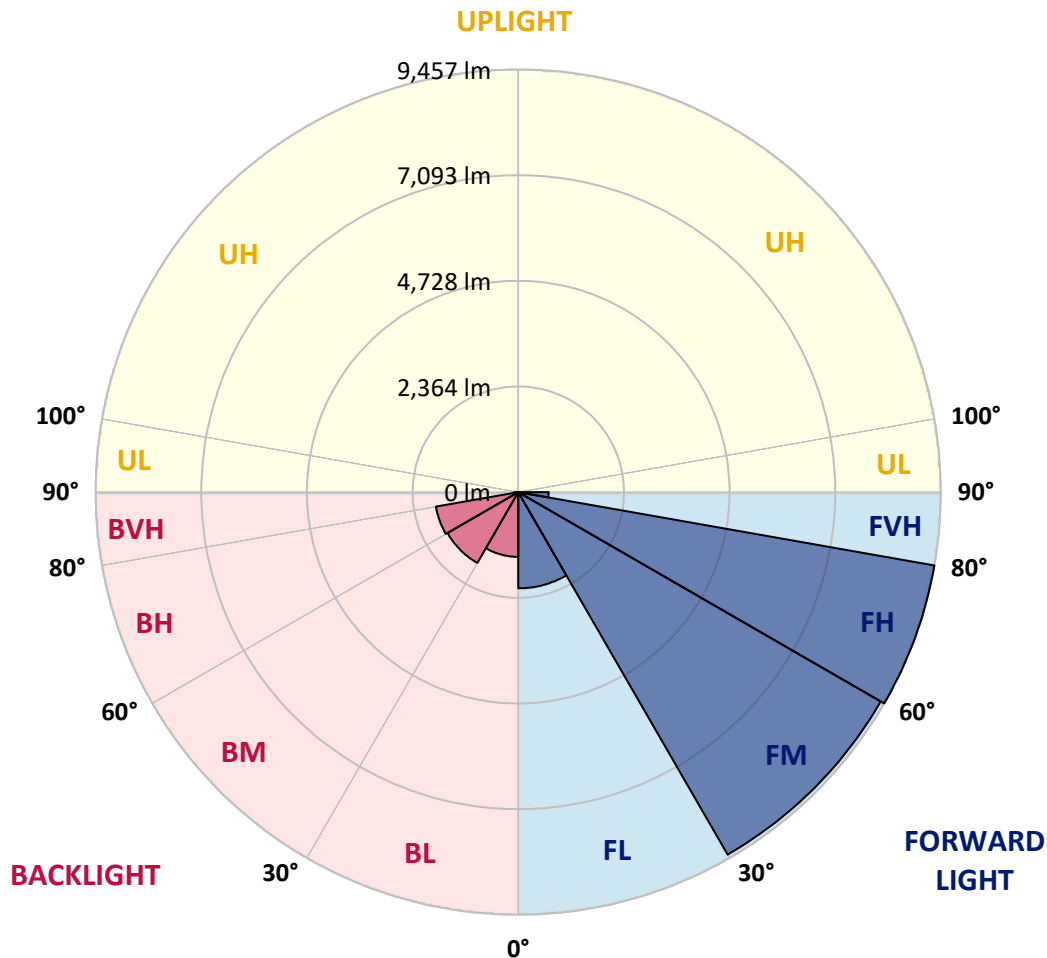
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2152.7	8.0			
FM (30°-60°)	9366.6	34.8			
FH (60°-80°)	9456.8	35.2			G4/12000
FVH (80°-90°)	680.1	2.5			G4/750
BL (0°-30°)	1448.4	5.4	B3/2500		
BM (30°-60°)	1829.7	6.8	B2/2500		
BH (60°-80°)	1871.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	88.7	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°	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9
2.5°	5797.1	5862.6	5886.4	5922.2	6014.5	6083.0	6124.6	6172.3	6228.9	6276.5	6306.3
5°	5392.2	5427.9	5484.5	5523.2	5639.3	5823.9	5949.0	6151.4	6145.5	6219.9	6333.1
7.5°	4999.2	5034.9	5061.7	5139.1	5305.8	5472.6	5701.8	6029.4	6005.5	6178.2	6353.9
10°	4755.0	4728.2	4737.1	4868.2	4999.2	5186.7	5475.6	5809.0	5895.4	6163.3	6413.5
12.5°	4525.7	4496.0	4567.4	4650.8	4811.6	4981.3	5326.7	5627.4	5758.4	6109.8	6440.3
15°	4382.8	4362.0	4451.3	4487.0	4677.6	4880.1	5124.2	5490.4	5633.4	6044.2	6398.6
17.5°	4302.4	4320.3	4353.0	4430.5	4552.5	4725.2	4993.2	5398.1	5460.7	5963.9	6389.6
20°	4317.3	4338.2	4341.1	4373.9	4457.3	4591.2	4865.2	5299.9	5341.6	5949.0	6413.5
22.5°	4436.4	4406.6	4418.6	4397.7	4421.5	4525.7	4766.9	5168.9	5329.7	5823.9	6362.8
25°	4615.1	4573.4	4567.4	4496.0	4451.3	4481.1	4749.1	5136.1	5240.3	5785.2	6359.9
27.5°	4930.7	4868.2	4868.2	4761.0	4579.3	4531.7	4698.4	5082.5	5174.8	5749.5	6291.4
30°	5234.4	5234.4	5237.4	5085.5	4883.0	4647.8	4719.3	5061.7	5121.2	5642.3	6199.1
32.5°	5603.6	5594.7	5579.8	5505.3	5192.7	4841.4	4820.5	5034.9	5064.7	5606.6	6172.3
35°	5963.9	5940.0	6056.2	5990.7	5672.1	5219.5	4924.7	5046.8	5112.3	5553.0	6088.9
37.5°	6234.8	6249.7	6490.9	6532.6	6258.6	5648.2	5219.5	5165.9	5228.4	5630.4	6088.9
40°	6586.1	6645.7	6872.0	7011.9	6845.2	6214.0	5687.0	5365.4	5410.0	5803.1	6219.9
42.5°	7047.7	7098.3	7387.1	7568.7	7521.1	6934.5	6148.5	5782.2	5746.5	6091.9	6416.4
45°	7658.0	7667.0	7958.8	8208.9	8307.1	7687.8	6880.9	6309.2	6279.5	6589.1	6776.7
47.5°	8384.5	8375.6	8557.2	8825.2	9090.2	8587.0	7723.5	7110.2	7003.0	7300.7	7375.2
50°	9087.2	9048.5	9090.2	9432.6	9941.7	9712.5	8747.8	8089.8	7982.6	8146.3	8274.4
52.5°	9474.3	9521.9	9408.8	9861.4	10846.9	11043.4	10105.5	9259.9	9167.6	9248.0	9471.3
55°	9203.3	9301.6	9227.2	9655.9	11242.9	12666.1	11862.2	10614.7	10495.6	10465.8	10832.0
57.5°	8051.1	8229.7	8244.6	8923.5	11105.9	13922.6	14333.5	12213.5	12034.9	11731.2	12109.3
60°	6181.2	6359.9	6496.8	7300.7	9932.8	14672.9	17197.8	14488.3	13898.8	13112.7	13339.0
62.5°	4332.2	4454.3	4591.2	5085.5	7658.0	14232.3	19675.1	17692.1	16605.3	14568.7	14851.6
65°	3156.1	3251.4	3391.3	3683.1	4704.4	11775.9	20824.4	21497.3	20467.1	16420.7	16385.0
67.5°	2376.0	2435.6	2620.2	3087.6	3260.3	7273.9	19633.4	25516.8	24683.2	18478.1	17617.6
70°	1798.4	1849.0	2021.7	2661.9	3045.9	3900.5	15488.8	26413.1	26651.3	20785.7	18445.4
72.5°	1238.6	1295.2	1488.7	2218.2	2900.0	3093.6	9721.4	23995.4	24897.5	21735.5	17558.1
75°	759.3	798.0	911.1	1682.3	2879.2	3025.1	5350.5	19663.2	20618.9	20083.0	15360.7
77.5°	535.9	533.0	553.8	985.5	2495.1	3043.0	3299.0	14407.9	15336.9	14801.0	10424.1
80°	390.0	393.0	413.9	589.5	1694.2	3093.6	2599.3	9650.0	9926.9	7717.6	4111.9
82.5°	235.2	247.1	297.7	399.0	1018.3	2792.9	2402.8	5362.4	5017.0	2477.2	1131.4
85°	125.1	125.1	175.7	253.1	541.9	2084.2	2313.5	2551.7	2137.8	768.2	419.8
87.5°	29.8	29.8	50.6	101.2	217.4	997.4	1578.1	1015.3	812.8	259.0	172.7
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°	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9	6225.9
2.5°	6294.4	6258.6	6303.3	6214.0	6142.5	6145.5	6035.3	6029.4	6014.5	5937.1	5963.9
5°	6365.8	6336.0	6285.4	6187.2	6029.4	5871.6	5776.3	5654.2	5603.6	5576.8	5588.7
7.5°	6434.3	6380.7	6234.8	6097.8	5853.7	5555.9	5383.3	5219.5	5011.1	4987.2	4945.6
10°	6452.2	6339.0	6151.4	5859.6	5535.1	5204.6	4811.6	4507.9	4347.1	4222.0	4174.4
12.5°	6425.4	6377.7	6017.5	5642.3	5151.0	4632.9	4174.4	3745.6	3447.9	3293.1	3251.4
15°	6422.4	6339.0	5868.6	5311.8	4683.5	4007.7	3355.6	2840.5	2527.9	2399.8	2399.8
17.5°	6425.4	6225.9	5692.9	4978.3	4132.7	3218.6	2501.1	2078.3	1905.6	1887.7	1902.6
20°	6365.8	6142.5	5508.3	4585.3	3441.9	2417.7	1816.3	1643.6	1643.6	1667.4	1676.3
22.5°	6312.2	6017.5	5216.5	4100.0	2739.3	1750.7	1476.8	1426.2	1482.8	1524.5	1542.3
25°	6237.8	5913.2	4918.8	3596.8	2084.2	1411.3	1283.3	1295.2	1348.8	1423.2	1417.3
27.5°	6130.6	5731.6	4564.4	3013.2	1551.3	1217.8	1185.0	1191.0	1247.6	1280.3	1274.4
30°	6008.5	5547.0	4236.9	2432.6	1229.7	1116.5	1113.6	1128.5	1137.4	1155.3	1152.3
32.5°	5853.7	5302.9	3888.6	1890.7	1107.6	1060.0	1048.1	1039.1	1048.1	1045.1	1036.2
35°	5743.5	5171.9	3534.2	1441.1	1039.1	1009.4	1000.4	985.5	973.6	955.8	952.8
37.5°	5713.7	5040.8	3162.1	1176.1	985.5	970.7	940.9	914.1	899.2	890.3	884.3
40°	5695.9	4954.5	2798.8	1033.2	940.9	926.0	890.3	854.5	839.6	830.7	833.7
42.5°	5758.4	4906.9	2429.6	961.7	902.2	875.4	836.7	795.0	792.0	786.0	795.0
45°	5978.7	4966.4	2087.2	911.1	863.5	818.8	768.2	747.3	744.4	738.4	744.4
47.5°	6479.0	5115.3	1795.4	878.4	821.8	783.1	729.5	699.7	696.7	693.7	693.7
50°	7169.7	5573.8	1551.3	839.6	795.0	741.4	690.8	658.0	652.1	640.2	640.2
52.5°	8253.5	6345.0	1405.4	818.8	747.3	702.7	649.1	613.4	598.5	586.6	586.6
55°	9474.3	7300.7	1378.6	783.1	696.7	655.0	607.4	571.7	556.8	541.9	535.9
57.5°	10864.8	8566.2	1569.1	759.3	661.0	607.4	553.8	521.1	509.1	494.3	488.3
60°	12160.0	9828.6	2161.6	723.5	628.2	562.7	509.1	476.4	461.5	446.6	446.6
62.5°	13657.6	11391.8	3165.0	723.5	598.5	515.1	461.5	437.7	428.8	413.9	410.9
65°	15429.2	13008.5	3897.5	768.2	589.5	473.4	416.8	393.0	384.1	375.2	372.2
67.5°	16778.0	13937.5	3352.6	887.3	628.2	437.7	372.2	357.3	351.3	342.4	336.5
70°	16920.9	13371.8	2021.7	958.7	667.0	402.0	333.5	318.6	318.6	309.7	303.7
72.5°	15637.6	11865.2	1360.7	854.5	604.4	360.3	294.8	282.9	276.9	270.9	268.0
75°	13085.9	10063.8	1074.9	681.8	464.5	297.7	256.1	244.2	235.2	232.2	226.3
77.5°	8789.5	6541.5	795.0	533.0	342.4	241.2	214.4	202.5	193.5	190.6	181.6
80°	3376.4	2492.1	512.1	387.1	241.2	190.6	169.7	157.8	151.9	142.9	137.0
82.5°	994.5	806.9	285.8	238.2	154.8	131.0	122.1	113.1	104.2	95.3	92.3
85°	410.9	369.2	175.7	125.1	95.3	77.4	71.5	62.5	53.6	47.6	41.7
87.5°	190.6	157.8	80.4	47.6	32.8	17.9	8.9	3.0	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)