

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: P478721

Luminaire Tested: **IFLD-S-SA6E-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478721
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

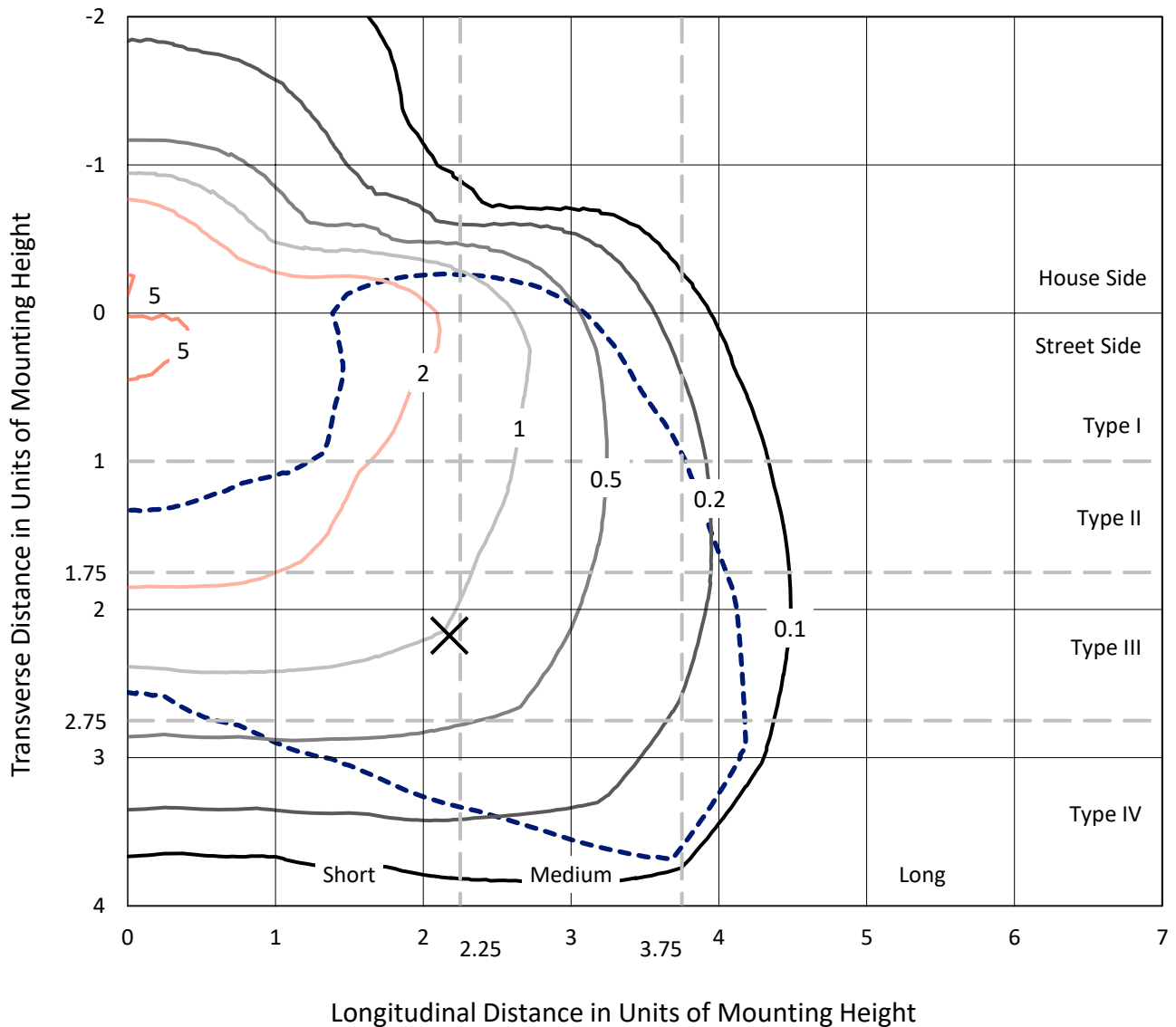
Lumens per Lamp: N/A
Luminaire Lumens: 42497.9 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

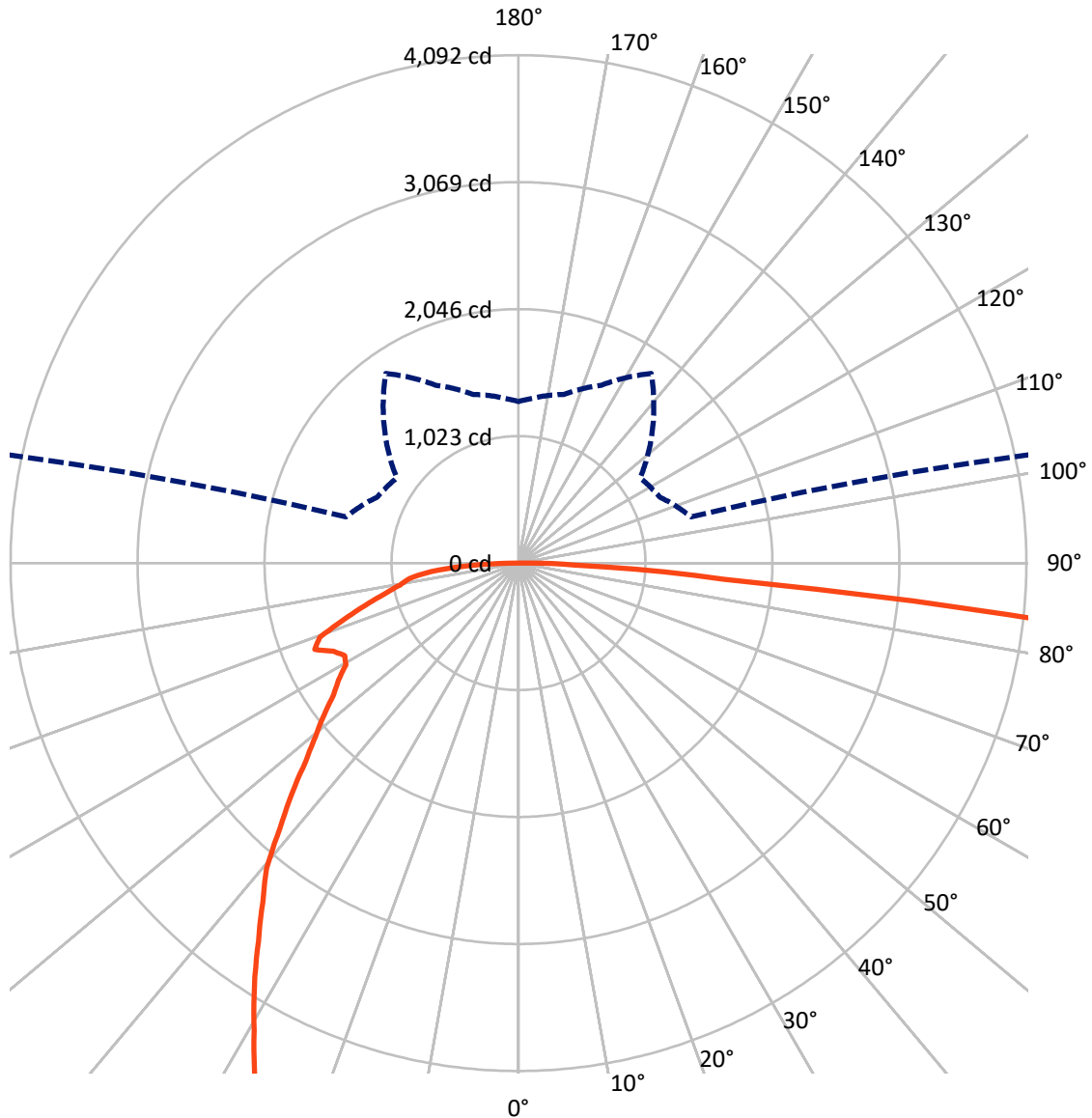
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9460.3	0.0	9460.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	33037.6	0.0	33037.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	42497.9	0.0	42497.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.8	1.1
10°-20°	1490.0	3.5
20°-30°	2516.2	5.9
30°-40°	3482.0	8.2
40°-50°	4980.6	11.7
50°-60°	8033.2	18.9
60°-70°	11847.8	27.9
70°-80°	8603.5	20.2
80°-90°	1096.7	2.6
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°	42497.9	100.0
0°-180°	42497.9	100.0

Coefficient of Utilization

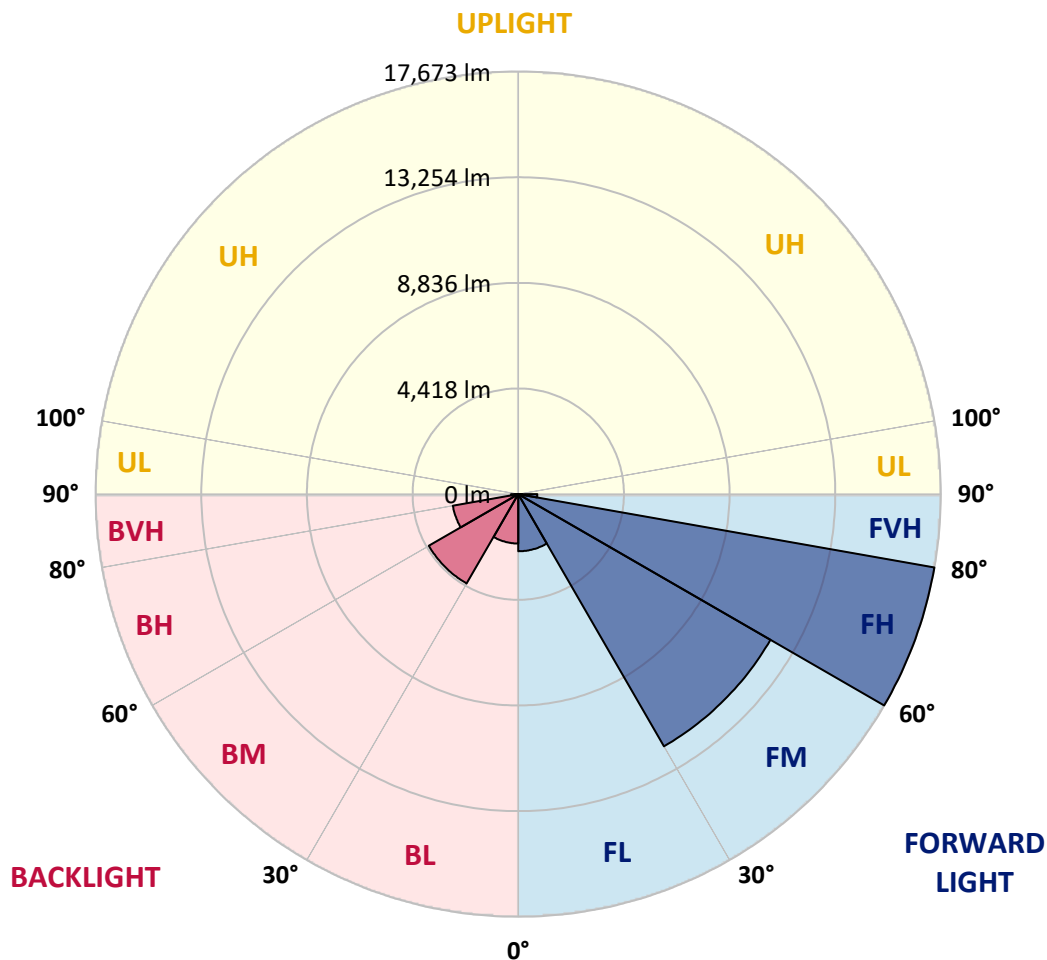


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2388.4	5.6			
FM (30°-60°)	12178.4	28.7			
FH (60°-80°)	17672.5	41.6			G5
FVH (80°-90°)	798.3	1.9			G5
BL (0°-30°)	2065.6	4.9	B3/2500		
BM (30°-60°)	4317.4	10.2	B3/5000		
BH (60°-80°)	2778.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	298.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5
2.5°	4610.2	4637.7	4610.2	4605.6	4559.8	4527.7	4555.2	4514.0	4468.2	4449.8	4408.6
5°	5031.8	5036.4	4986.0	4990.6	4894.4	4793.5	4811.9	4688.1	4555.2	4504.8	4422.3
7.5°	5462.6	5412.2	5338.9	5316.0	5164.7	5054.8	5041.0	4931.0	4724.8	4610.2	4495.7
10°	5742.2	5760.5	5641.3	5540.5	5412.2	5279.3	5274.7	5068.5	4949.4	4779.8	4633.1
12.5°	5989.6	5994.2	5893.4	5733.0	5572.6	5407.6	5430.5	5338.9	5137.2	4976.9	4830.2
15°	6182.1	6154.6	6044.6	5898.0	5728.4	5600.1	5586.4	5508.4	5338.9	5206.0	4963.1
17.5°	6237.1	6223.4	6113.4	5957.6	5792.6	5696.3	5733.0	5604.7	5535.9	5416.8	5183.1
20°	6131.7	6099.6	6081.3	5907.1	5788.0	5778.8	5746.8	5774.2	5659.7	5549.7	5380.1
22.5°	5939.2	5925.5	5916.3	5778.8	5723.8	5765.1	5820.1	5861.3	5843.0	5737.6	5545.1
25°	5742.2	5806.3	5746.8	5682.6	5760.5	5865.9	5852.2	5985.1	5985.1	5953.0	5792.6
27.5°	5879.6	5838.4	5792.6	5760.5	5788.0	5953.0	5943.8	6104.2	6163.8	6104.2	5920.9
30°	6223.4	6182.1	6049.2	5907.1	5870.5	6049.2	6095.0	6237.1	6264.6	6118.0	5962.1
32.5°	6869.5	6846.6	6635.8	6218.8	5994.2	6095.0	6118.0	6278.3	6255.4	6163.8	6099.6
35°	7827.3	7749.4	7456.1	6750.4	6255.4	6154.6	6095.0	6223.4	6310.4	6264.6	6205.0
37.5°	8876.8	8789.7	8427.7	7534.0	6727.5	6315.0	6269.2	6374.6	6475.4	6452.5	6328.8
40°	9880.4	9880.4	9555.0	8514.7	7428.6	6704.5	6713.7	6594.6	6686.2	6645.0	6667.9
42.5°	10870.2	10833.6	10700.7	9665.0	8180.2	7355.3	7208.6	6910.8	7075.7	7062.0	7094.1
45°	11873.9	11846.4	11809.7	10737.3	9257.1	8235.2	8157.3	7621.1	7772.3	7708.2	7845.6
47.5°	12675.8	12707.9	12707.9	11933.4	10407.4	9408.4	9293.8	8446.0	8734.7	8766.8	8798.9
50°	13358.7	13372.4	13358.7	13074.5	11690.6	10751.1	10517.4	9655.8	9944.5	10196.6	10489.9
52.5°	14302.7	14321.0	14256.9	14146.9	13432.0	12162.6	11901.4	10943.6	11534.7	11800.5	12327.6
55°	15466.7	15329.2	15210.1	15292.6	15104.7	13716.1	13445.7	12272.6	13161.6	13514.5	14568.5
57.5°	15682.1	15801.3	16103.7	16759.1	17029.4	15228.4	15072.6	13904.0	14999.3	15306.3	17066.1
60°	16442.9	16245.8	16988.2	18408.8	18711.3	17199.0	17038.6	15691.3	16827.8	17148.6	19371.2
62.5°	16942.4	16933.2	18033.1	19719.5	20406.9	19242.9	18917.5	18014.7	18803.0	19114.6	21882.6
65°	16795.7	16928.6	18880.9	20489.4	21823.0	21566.4	21378.5	20012.8	21053.1	21025.6	23518.6
67.5°	15457.6	15833.4	18344.7	21043.9	23931.0	24398.5	24338.9	22822.0	22881.6	22299.6	24247.3
70°	13601.6	13473.2	16076.2	20466.5	24985.1	27757.6	27743.9	24911.7	24526.8	22579.1	22157.5
72°	10448.6	10306.6	12446.7	17574.8	24430.6	29100.4	29512.8	26359.9	24508.5	21419.7	18303.4
72.5°	9486.3	9362.5	11493.5	16543.7	23816.5	29448.7	29256.2	26414.9	24316.0	20874.4	17098.2
75°	4367.3	4225.3	5742.2	10127.8	18578.4	26094.1	26749.4	24719.3	21236.4	16617.0	10242.4
77.5°	1301.5	1260.3	1846.8	4087.8	10796.9	19224.6	19476.6	18651.7	14825.1	9101.3	3799.1
80°	724.1	728.7	953.2	1530.6	4747.7	11113.1	12020.5	11521.0	7272.8	3006.3	1264.8
82.5°	403.3	426.2	595.8	907.4	2181.4	5100.6	5490.1	5293.1	2630.5	1411.5	692.0
85°	210.8	220.0	311.6	485.8	1237.3	1613.1	1659.0	1778.1	1365.7	962.4	371.2
87.5°	82.5	82.5	114.6	201.6	458.3	499.5	449.1	545.3	783.6	623.3	183.3
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°	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5	4376.5
2.5°	4445.3	4408.6	4404.0	4344.4	4362.8	4312.4	4316.9	4307.8	4312.4	4303.2	4280.3
5°	4422.3	4394.8	4316.9	4367.3	4321.5	4385.7	4436.1	4417.8	4431.5	4426.9	4431.5
7.5°	4454.4	4417.8	4408.6	4381.1	4422.3	4449.8	4491.1	4605.6	4596.5	4610.2	4637.7
10°	4550.7	4509.4	4481.9	4523.2	4500.2	4587.3	4633.1	4692.7	4798.1	4802.7	4747.7
12.5°	4738.5	4711.1	4656.1	4665.2	4743.1	4770.6	4798.1	4834.8	4903.5	4889.8	4940.2
15°	4953.9	4894.4	4862.3	4853.1	4871.4	4903.5	4898.9	4935.6	4972.3	5004.3	4990.6
17.5°	5109.7	5031.8	5041.0	5086.8	5082.3	5073.1	5013.5	4995.2	5013.5	5031.8	5022.7
20°	5270.1	5279.3	5210.6	5169.3	5151.0	5059.3	5013.5	4958.5	4903.5	4931.0	4972.3
22.5°	5471.8	5430.5	5329.7	5206.0	5114.3	5059.3	4917.3	4821.0	4821.0	4848.5	4834.8
25°	5700.9	5613.9	5439.7	5215.2	5100.6	4866.9	4766.0	4752.3	4715.6	4756.9	4775.2
27.5°	5879.6	5801.7	5563.4	5183.1	4866.9	4679.0	4619.4	4601.1	4660.6	4665.2	4738.5
30°	5953.0	5930.1	5581.8	5100.6	4628.6	4326.1	4289.4	4371.9	4436.1	4532.3	4536.9
32.5°	6049.2	6058.4	5609.3	4908.1	4316.9	4014.5	3959.5	4060.3	4243.6	4321.5	4381.1
35°	6209.6	6255.4	5586.4	4669.8	3987.0	3698.3	3689.1	3716.6	3895.3	4032.8	4110.7
37.5°	6489.2	6480.0	5581.8	4385.7	3725.8	3423.3	3350.0	3359.1	3478.3	3592.9	3579.1
40°	6864.9	6828.3	5568.0	4014.5	3386.6	3189.6	3065.8	3020.0	3010.9	2978.8	2987.9
42.5°	7378.2	7304.9	5563.4	3638.7	3079.6	2868.8	2781.7	2662.6	2575.5	2410.5	2419.7
45°	8093.1	7964.8	5444.3	3285.8	2777.1	2603.0	2470.1	2383.0	2195.1	1988.9	1988.9
47.5°	9197.5	8780.5	5448.9	2896.3	2483.8	2341.8	2250.1	2098.9	1897.3	1732.3	1713.9
50°	10824.4	9871.2	5293.1	2589.2	2245.5	2149.3	2053.1	1878.9	1686.4	1571.9	1585.6
52.5°	12923.3	11498.1	5288.5	2314.3	2057.6	1988.9	1883.5	1727.7	1585.6	1512.3	1484.8
55°	15425.5	13652.0	5453.5	2089.7	1865.2	1828.5	1782.7	1654.4	1516.9	1452.7	1448.1
57.5°	17987.2	15755.4	5719.3	1929.3	1700.2	1727.7	1695.6	1594.8	1484.8	1411.5	1402.3
60°	20264.9	17423.6	5183.1	1736.9	1553.5	1613.1	1659.0	1571.9	1512.3	1507.7	1475.6
62.5°	21983.4	18138.5	3941.2	1590.2	1475.6	1585.6	1709.4	1764.4	1736.9	1773.5	1778.1
65°	22611.2	17707.7	2713.0	1512.3	1416.1	1649.8	1924.7	1906.4	1746.0	1677.3	1713.9
67.5°	21731.3	15961.7	2011.8	1420.6	1374.8	1782.7	2048.5	1819.3	1576.5	1567.3	1539.8
70°	18688.4	13528.2	1640.6	1324.4	1306.1	1709.4	1993.5	1686.4	1484.8	1425.2	1397.7
72°	14889.3	10535.7	1439.0	1255.7	1196.1	1526.1	1865.2	1581.0	1406.9	1333.6	1301.5
72.5°	13592.4	9765.8	1411.5	1223.6	1173.2	1484.8	1801.0	1549.0	1388.6	1324.4	1274.0
75°	7456.1	4999.8	1241.9	1122.8	989.9	1283.2	1668.1	1452.7	1310.7	1219.0	1209.8
77.5°	2772.6	1938.5	1072.4	994.5	857.0	1109.0	1516.9	1379.4	1191.5	1076.9	1054.0
80°	1063.2	1021.9	875.3	838.6	719.5	971.5	1397.7	1237.3	1012.8	898.2	861.6
82.5°	646.2	595.8	664.5	655.3	549.9	884.5	1315.2	1159.4	898.2	728.7	705.7
85°	352.9	352.9	462.9	444.5	384.9	705.7	994.5	769.9	568.3	467.4	476.6
87.5°	155.8	183.3	247.5	233.7	210.8	398.7	485.8	407.9	284.1	192.5	206.2
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)