

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: P478696

Luminaire Tested: **IFLD-L-SA8D-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478696
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

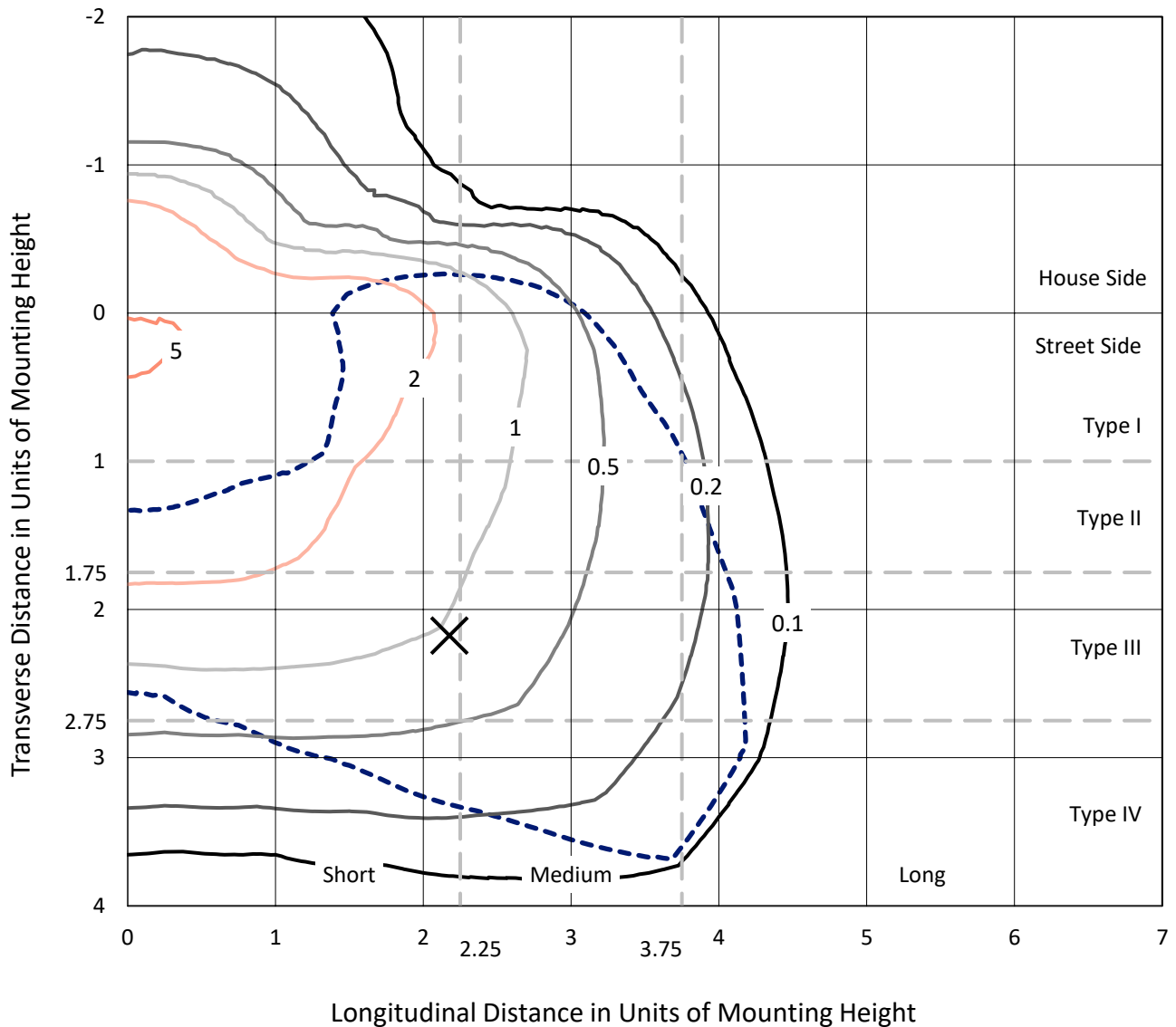
Lumens per Lamp: N/A
Luminaire Lumens: 41421.8 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

REPORT NUMBER: P478696
 CATALOG NUMBER: IFLD-L-SA8D-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

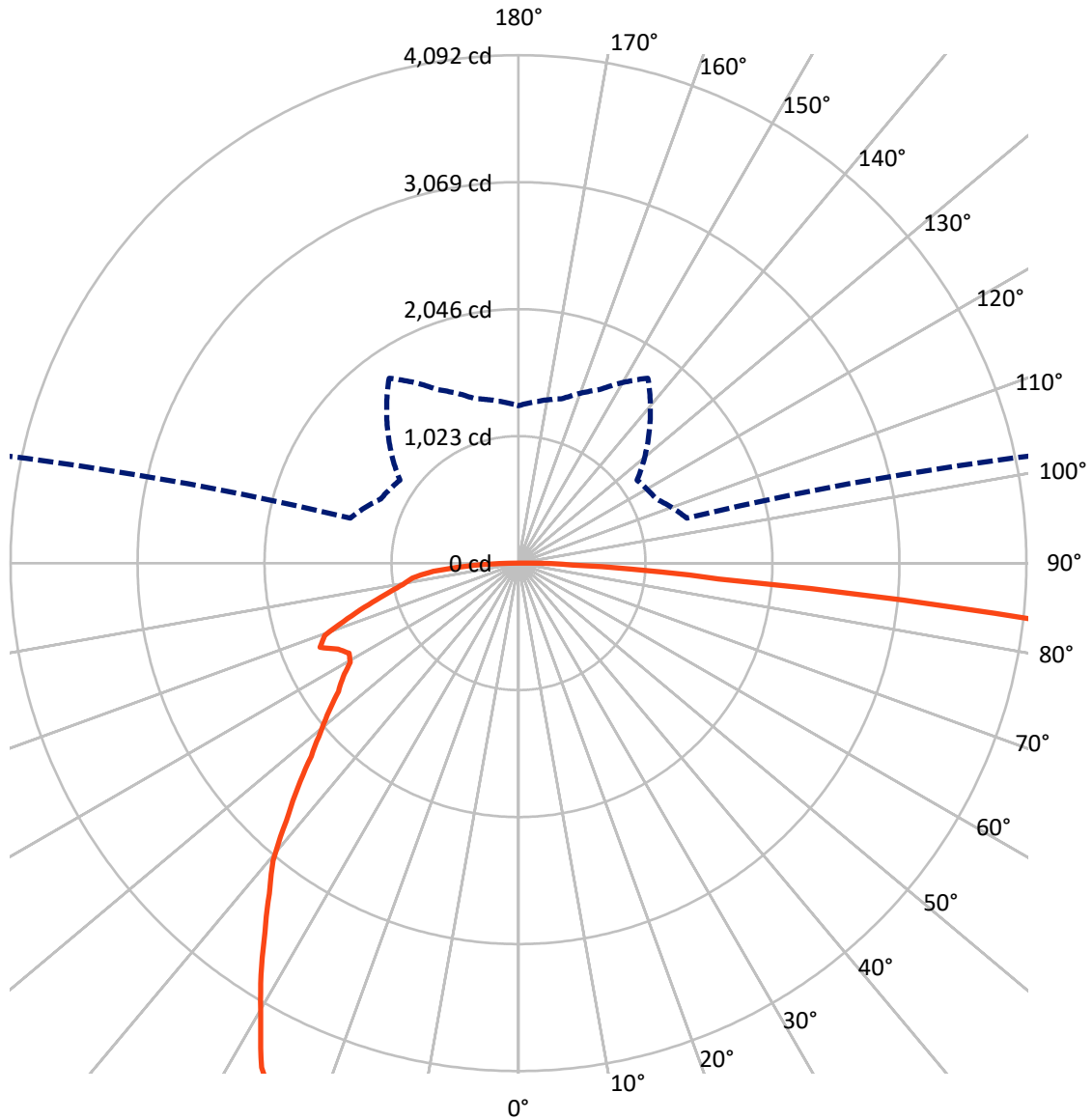
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

REPORT NUMBER: P478696
CATALOG NUMBER: IFLD-L-SA8D-827-U-T4W

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	9220.7	0.0	9220.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32201.1	0.0	32201.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	41421.8	0.0	41421.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.5	1.1
10°-20°	1452.3	3.5
20°-30°	2452.5	5.9
30°-40°	3393.8	8.2
40°-50°	4854.5	11.7
50°-60°	7829.8	18.9
60°-70°	11547.8	27.9
70°-80°	8385.7	20.2
80°-90°	1069.0	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°	41421.8	100.0
0°-180°	41421.8	100.0

Coefficient of Utilization



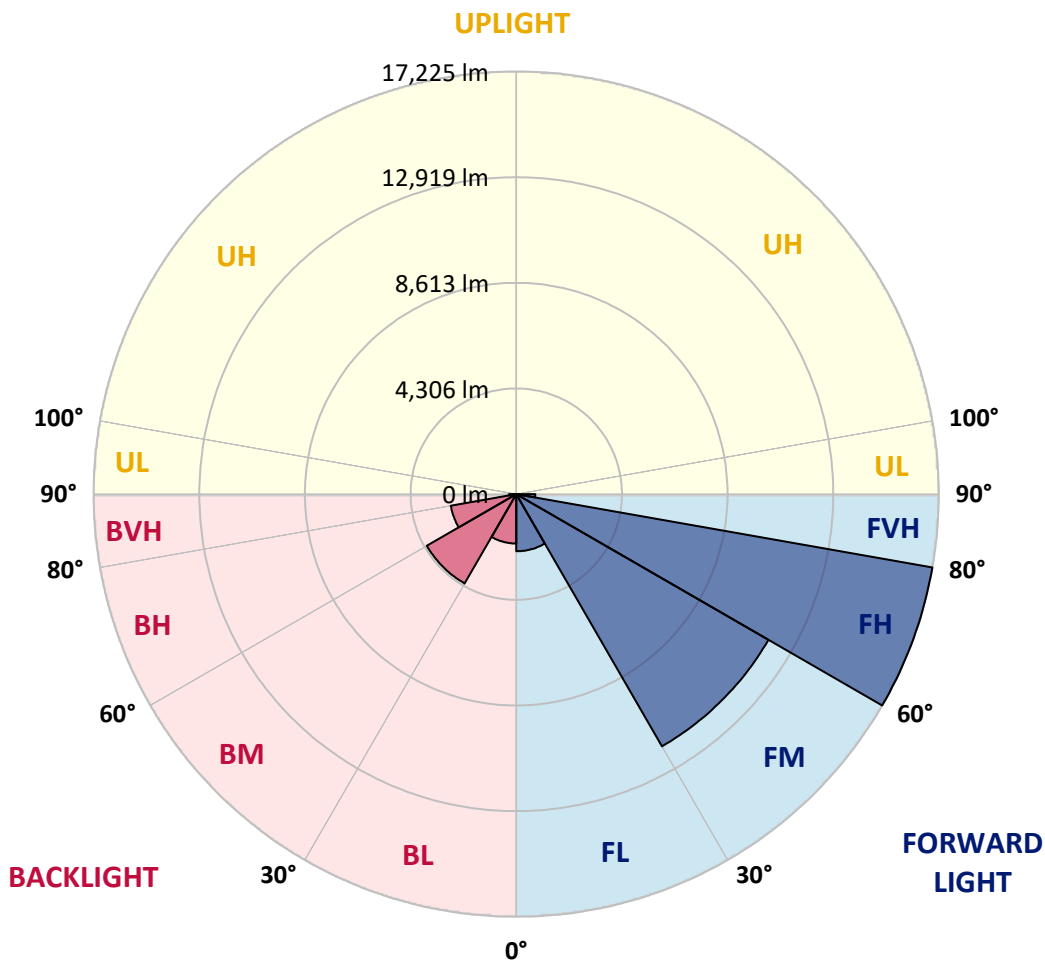
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2327.9	5.6			
FM (30°-60°)	11870.1	28.7			
FH (60°-80°)	17225.1	41.6			G5
FVH (80°-90°)	778.1	1.9			G5
BL (0°-30°)	2013.3	4.9	B3/2500		
BM (30°-60°)	4208.1	10.2	B3/5000		
BH (60°-80°)	2708.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	290.9	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





REPORT NUMBER: P478696

CATALOG NUMBER: IFLD-L-SA8D-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7
2.5°	4493.5	4520.3	4493.5	4489.0	4444.4	4413.1	4439.9	4399.7	4355.0	4337.2	4297.0
5°	4904.4	4908.9	4859.8	4864.2	4770.4	4672.2	4690.0	4569.4	4439.9	4390.8	4310.4
7.5°	5324.3	5275.2	5203.7	5181.4	5034.0	4926.8	4913.4	4806.2	4605.2	4493.5	4381.8
10°	5596.8	5614.6	5498.5	5400.2	5275.2	5145.6	5141.2	4940.2	4824.0	4658.8	4515.8
12.5°	5838.0	5842.4	5744.2	5587.8	5431.5	5270.7	5293.0	5203.7	5007.2	4850.8	4707.9
15°	6025.6	5998.8	5891.6	5748.6	5583.4	5458.3	5444.9	5369.0	5203.7	5074.2	4837.4
17.5°	6079.2	6065.8	5958.6	5806.7	5645.9	5552.1	5587.8	5462.8	5395.8	5279.6	5051.8
20°	5976.4	5945.2	5927.3	5757.6	5641.4	5632.5	5601.2	5628.0	5516.4	5409.2	5243.9
22.5°	5788.8	5775.4	5766.5	5632.5	5578.9	5619.1	5672.7	5712.9	5695.0	5592.3	5404.7
25°	5596.8	5659.3	5601.2	5538.7	5614.6	5717.4	5704.0	5833.5	5833.5	5802.2	5645.9
27.5°	5730.8	5690.6	5645.9	5614.6	5641.4	5802.2	5793.3	5949.6	6007.7	5949.6	5771.0
30°	6065.8	6025.6	5896.0	5757.6	5721.8	5896.0	5940.7	6079.2	6106.0	5963.0	5811.2
32.5°	6695.6	6673.3	6467.8	6061.3	5842.4	5940.7	5963.0	6119.4	6097.0	6007.7	5945.2
35°	7629.1	7553.2	7267.3	6579.5	6097.0	5998.8	5940.7	6065.8	6150.6	6106.0	6047.9
37.5°	8652.0	8567.1	8214.3	7343.3	6557.1	6155.1	6110.4	6213.2	6311.5	6289.1	6168.5
40°	9630.2	9630.2	9313.1	8299.1	7240.5	6534.8	6543.7	6427.6	6516.9	6476.7	6499.1
42.5°	10595.0	10559.3	10429.8	9420.3	7973.1	7169.1	7026.1	6735.8	6896.6	6883.2	6914.5
45°	11573.2	11546.4	11510.7	10465.5	9022.7	8026.7	7950.7	7428.1	7575.5	7513.0	7647.0
47.5°	12354.9	12386.2	12386.2	11631.3	10143.9	9170.1	9058.5	8232.1	8513.5	8544.8	8576.1
50°	13020.4	13033.8	13020.4	12743.5	11394.6	10478.9	10251.1	9411.3	9692.7	9938.4	10224.3
52.5°	13940.6	13958.4	13895.9	13788.7	13091.9	11854.6	11600.0	10666.5	11242.7	11501.8	12015.4
55°	15075.1	14941.1	14825.0	14905.4	14722.3	13368.8	13105.3	11961.8	12828.4	13172.3	14199.6
57.5°	15285.1	15401.2	15696.0	16334.7	16598.3	14842.9	14691.0	13552.0	14619.5	14918.8	16634.0
60°	16026.5	15834.5	16558.1	17942.7	18237.5	16763.5	16607.2	15294.0	16401.7	16714.4	18880.8
62.5°	16513.4	16504.5	17576.5	19220.2	19890.2	18755.7	18438.5	17558.6	18326.9	18630.6	21328.5
65°	16370.5	16500.0	18402.8	19970.6	21270.4	21020.3	20837.2	19506.1	20520.0	20493.2	22923.1
67.5°	15066.2	15432.5	17880.2	20511.1	23325.1	23780.7	23722.7	22244.2	22302.2	21735.0	23633.3
70°	13257.2	13132.1	15669.2	19948.3	24352.5	27054.8	27041.4	24281.0	23905.8	22007.4	21596.5
72°	10184.1	10045.6	12131.6	17129.8	23812.0	28363.6	28765.6	25692.5	23887.9	20877.4	17840.0
72.5°	9246.1	9125.5	11202.5	16124.8	23213.5	28703.0	28515.4	25746.1	23700.3	20345.8	16665.3
75°	4256.8	4118.3	5596.8	9871.4	18108.0	25433.4	26072.1	24093.4	20698.7	16196.3	9983.1
77.5°	1268.5	1228.3	1800.1	3984.3	10523.6	18737.8	18983.5	18179.5	14449.8	8870.9	3702.9
80°	705.7	710.2	929.1	1491.9	4627.5	10831.8	11716.2	11229.3	7088.7	2930.2	1232.8
82.5°	393.1	415.4	580.7	884.4	2126.2	4971.4	5351.1	5159.0	2563.9	1375.7	674.5
85°	205.5	214.4	303.7	473.5	1206.0	1572.3	1616.9	1733.1	1331.1	938.0	361.8
87.5°	80.4	80.4	111.7	196.5	446.7	486.9	437.7	531.5	763.8	607.5	178.7
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°	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7
2.5°	4332.7	4297.0	4292.5	4234.4	4252.3	4203.2	4207.6	4198.7	4203.2	4194.2	4171.9
5°	4310.4	4283.6	4207.6	4256.8	4212.1	4274.6	4323.8	4305.9	4319.3	4314.8	4319.3
7.5°	4341.6	4305.9	4297.0	4270.2	4310.4	4337.2	4377.4	4489.0	4480.1	4493.5	4520.3
10°	4435.4	4395.2	4368.4	4408.6	4386.3	4471.2	4515.8	4573.9	4676.6	4681.1	4627.5
12.5°	4618.6	4591.8	4538.2	4547.1	4623.0	4649.8	4676.6	4712.4	4779.4	4766.0	4815.1
15°	4828.5	4770.4	4739.2	4730.2	4748.1	4779.4	4774.9	4810.6	4846.4	4877.6	4864.2
17.5°	4980.4	4904.4	4913.4	4958.0	4953.6	4944.6	4886.6	4868.7	4886.6	4904.4	4895.5
20°	5136.7	5145.6	5078.6	5038.4	5020.6	4931.2	4886.6	4833.0	4779.4	4806.2	4846.4
22.5°	5333.2	5293.0	5194.8	5074.2	4984.8	4931.2	4792.8	4699.0	4699.0	4725.8	4712.4
25°	5556.6	5471.7	5302.0	5083.1	4971.4	4743.6	4645.4	4632.0	4596.2	4636.4	4654.3
27.5°	5730.8	5654.8	5422.6	5051.8	4743.6	4560.5	4502.4	4484.6	4542.6	4547.1	4618.6
30°	5802.2	5779.9	5440.4	4971.4	4511.4	4216.6	4180.8	4261.2	4323.8	4417.6	4422.0
32.5°	5896.0	5905.0	5467.2	4783.8	4207.6	3912.8	3859.2	3957.5	4136.2	4212.1	4270.2
35°	6052.4	6097.0	5444.9	4551.6	3886.0	3604.6	3595.7	3622.5	3796.7	3930.7	4006.6
37.5°	6324.9	6315.9	5440.4	4274.6	3631.4	3336.6	3265.2	3274.1	3390.2	3501.9	3488.5
40°	6691.1	6655.4	5427.0	3912.8	3300.9	3108.8	2988.2	2943.6	2934.6	2903.4	2912.3
42.5°	7191.4	7119.9	5422.6	3546.6	3001.6	2796.2	2711.3	2595.2	2510.3	2349.5	2358.4
45°	7888.2	7763.1	5306.4	3202.6	2706.8	2537.1	2407.6	2322.7	2139.6	1938.5	1938.5
47.5°	8964.7	8558.2	5310.9	2823.0	2421.0	2282.5	2193.2	2045.7	1849.2	1688.4	1670.5
50°	10550.4	9621.3	5159.0	2523.7	2188.7	2094.9	2001.1	1831.3	1643.7	1532.1	1545.5
52.5°	12596.1	11207.0	5154.6	2255.7	2005.5	1938.5	1835.8	1683.9	1545.5	1474.0	1447.2
55°	15034.9	13306.3	5315.4	2036.8	1817.9	1782.2	1737.5	1612.5	1478.5	1415.9	1411.5
57.5°	17531.8	15356.5	5574.4	1880.5	1657.1	1683.9	1652.7	1554.4	1447.2	1375.7	1366.8
60°	19751.8	16982.4	5051.8	1692.9	1514.2	1572.3	1616.9	1532.1	1474.0	1469.5	1438.3
62.5°	21426.8	17679.2	3841.4	1549.9	1438.3	1545.5	1666.1	1719.7	1692.9	1728.6	1733.1
65°	22038.7	17259.3	2644.3	1474.0	1380.2	1608.0	1876.0	1858.1	1701.8	1634.8	1670.5
67.5°	21181.1	15557.5	1960.9	1384.7	1340.0	1737.5	1996.6	1773.3	1536.5	1527.6	1500.8
70°	18215.2	13185.7	1599.1	1290.9	1273.0	1666.1	1943.0	1643.7	1447.2	1389.1	1362.3
72°	14512.3	10268.9	1402.5	1223.9	1165.8	1487.4	1817.9	1541.0	1371.3	1299.8	1268.5
72.5°	13248.2	9518.5	1375.7	1192.6	1143.5	1447.2	1755.4	1509.7	1353.4	1290.9	1241.7
75°	7267.3	4873.2	1210.5	1094.3	964.8	1250.7	1625.9	1415.9	1277.5	1188.1	1179.2
77.5°	2702.4	1889.4	1045.2	969.3	835.3	1080.9	1478.5	1344.5	1161.3	1049.7	1027.3
80°	1036.3	996.1	853.1	817.4	701.3	946.9	1362.3	1206.0	987.1	875.5	839.7
82.5°	629.8	580.7	647.7	638.7	536.0	862.1	1281.9	1130.1	875.5	710.2	687.9
85°	343.9	343.9	451.1	433.3	375.2	687.9	969.3	750.4	553.9	455.6	464.5
87.5°	151.9	178.7	241.2	227.8	205.5	388.6	473.5	397.5	276.9	187.6	201.0
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)