

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: P478735

Luminaire Tested: **IFLD-L-SA8D-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478735
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

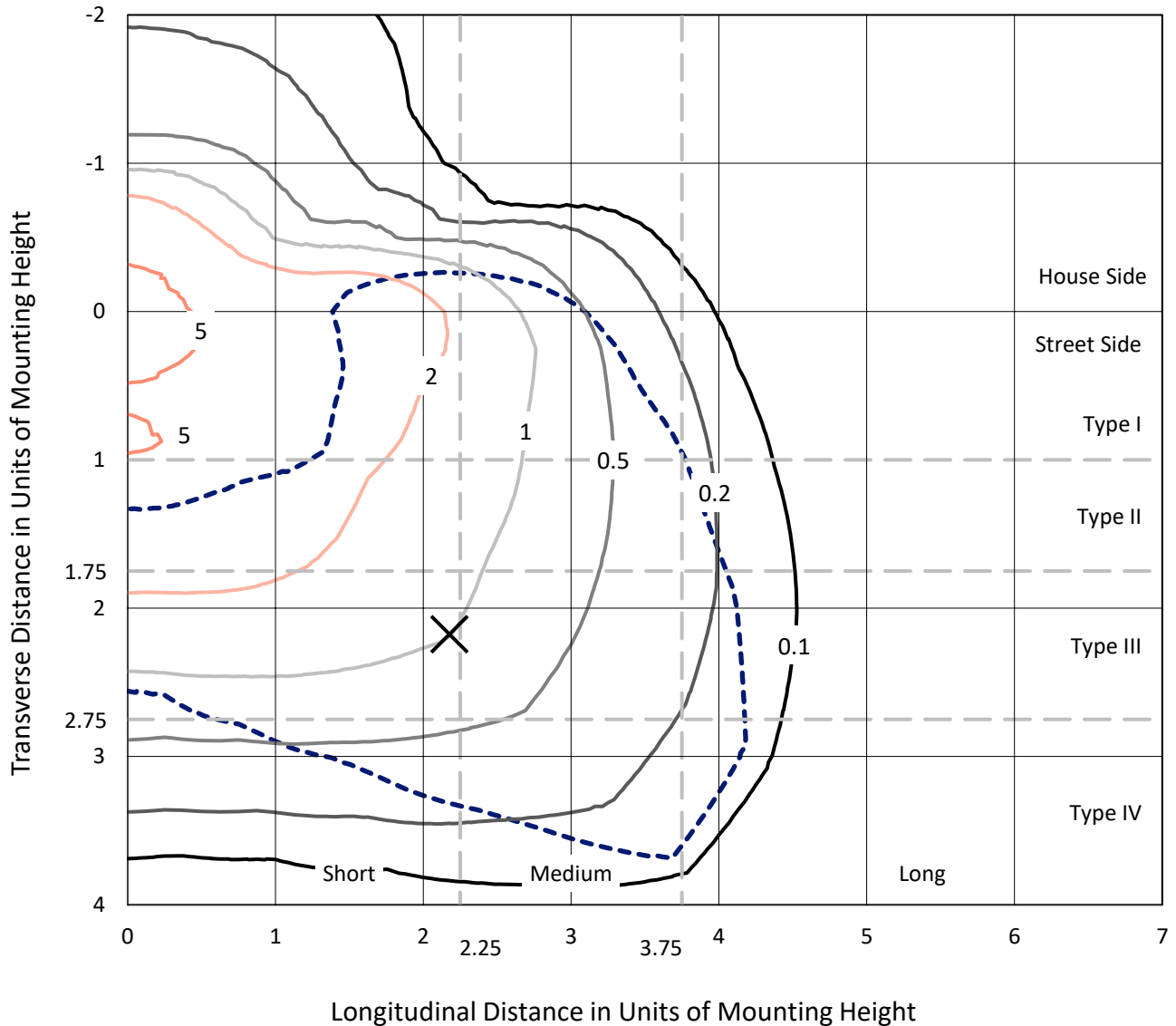
Lumens per Lamp: N/A
Luminaire Lumens: 44774.6 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

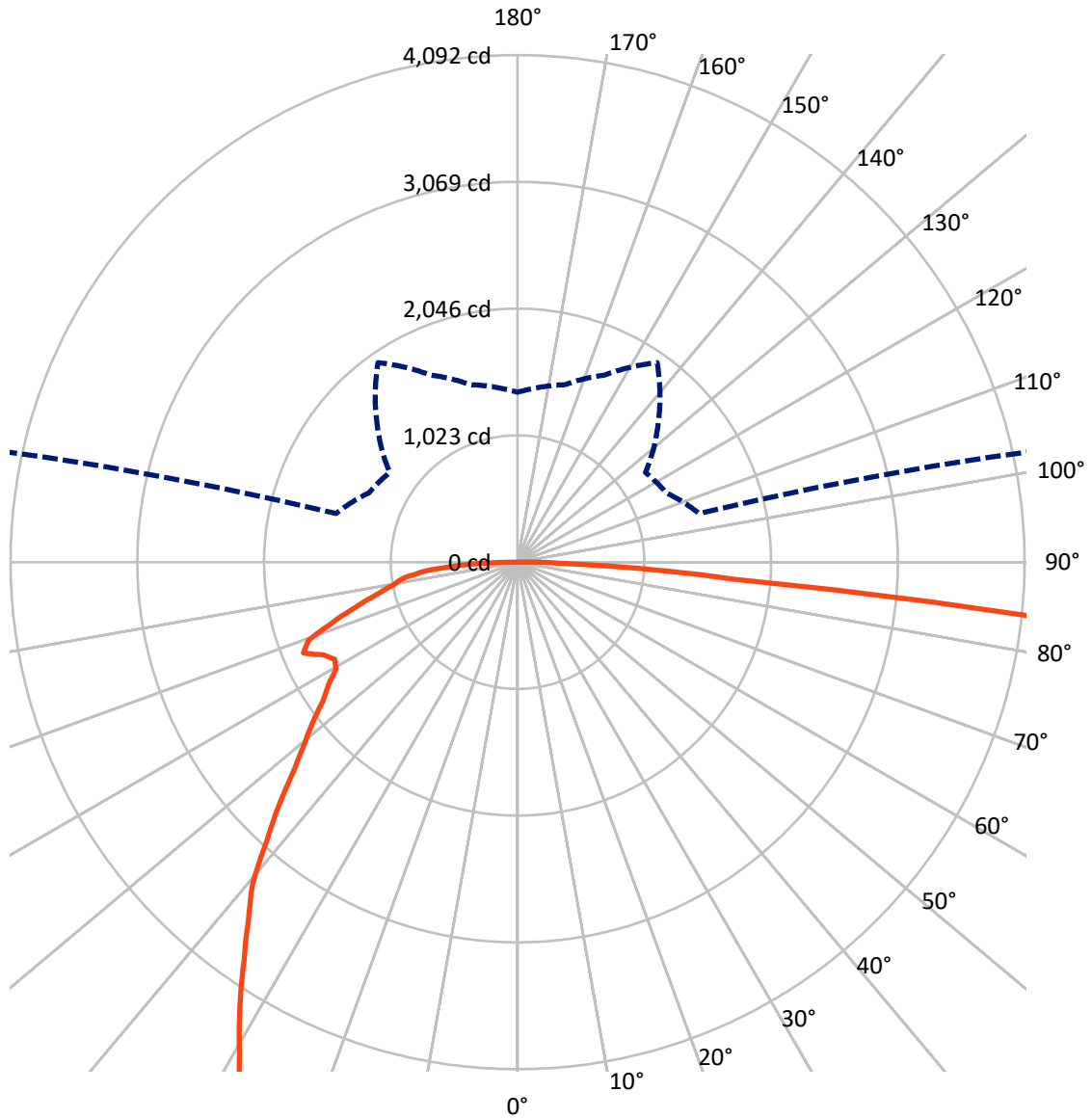
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	9967.1	0.0	9967.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	34807.5	0.0	34807.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	44774.6	0.0	44774.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.8	1.1
10°-20°	1569.8	3.5
20°-30°	2651.0	5.9
30°-40°	3668.5	8.2
40°-50°	5247.5	11.7
50°-60°	8463.6	18.9
60°-70°	12482.5	27.9
70°-80°	9064.5	20.2
80°-90°	1155.5	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°	44774.6	100.0
0°-180°	44774.6	100.0

Coefficient of Utilization



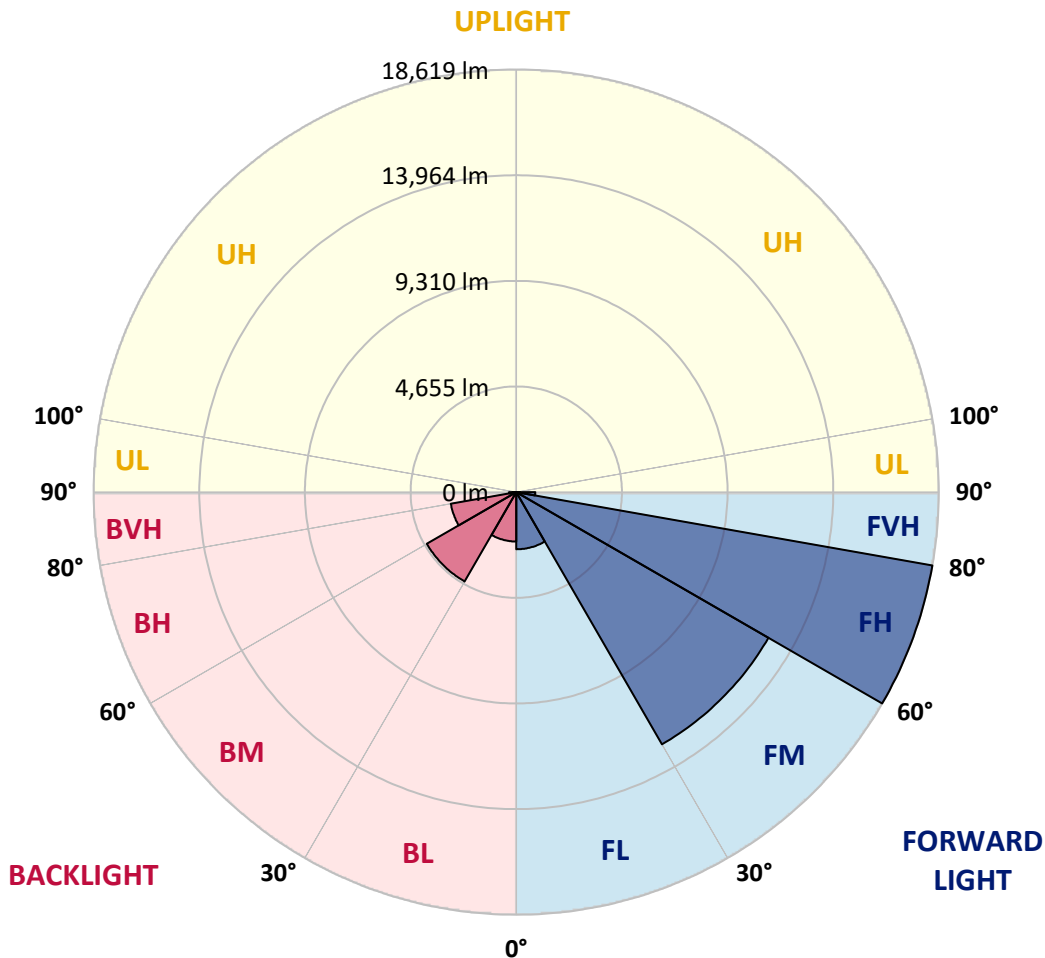
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2516.4	5.6			
FM (30°-60°)	12830.8	28.7			
FH (60°-80°)	18619.3	41.6			G5
FVH (80°-90°)	841.0	1.9			G5
BL (0°-30°)	2176.2	4.9	B3/2500		
BM (30°-60°)	4548.7	10.2	B3/5000		
BH (60°-80°)	2927.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	314.5	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°	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0
2.5°	4857.2	4886.2	4857.2	4852.4	4804.1	4770.3	4799.3	4755.8	4707.5	4688.2	4644.8
5°	5301.4	5306.2	5253.1	5258.0	5156.6	5050.3	5069.7	4939.3	4799.3	4746.2	4659.3
7.5°	5755.3	5702.2	5624.9	5600.8	5441.4	5325.6	5311.1	5195.2	4977.9	4857.2	4736.5
10°	6049.8	6069.1	5943.6	5837.3	5702.2	5562.1	5557.3	5340.0	5214.5	5035.9	4881.4
12.5°	6310.5	6315.3	6209.1	6040.1	5871.1	5697.3	5721.5	5624.9	5412.5	5243.5	5089.0
15°	6513.3	6484.3	6368.5	6213.9	6035.3	5900.1	5885.6	5803.5	5624.9	5484.9	5229.0
17.5°	6571.2	6556.8	6440.9	6276.7	6102.9	6001.5	6040.1	5904.9	5832.5	5707.0	5460.7
20°	6460.2	6426.4	6407.1	6223.6	6098.1	6088.4	6054.6	6083.6	5962.9	5847.0	5668.4
22.5°	6257.4	6242.9	6233.3	6088.4	6030.5	6073.9	6131.9	6175.3	6156.0	6045.0	5842.2
25°	6049.8	6117.4	6054.6	5987.0	6069.1	6180.2	6165.7	6305.7	6305.7	6271.9	6102.9
27.5°	6194.6	6151.2	6102.9	6069.1	6098.1	6271.9	6262.2	6431.2	6494.0	6431.2	6238.1
30°	6556.8	6513.3	6373.3	6223.6	6185.0	6373.3	6421.6	6571.2	6600.2	6445.7	6281.5
32.5°	7237.5	7213.4	6991.3	6551.9	6315.3	6421.6	6445.7	6614.7	6590.6	6494.0	6426.4
35°	8246.6	8164.6	7855.6	7112.0	6590.6	6484.3	6421.6	6556.8	6648.5	6600.2	6537.4
37.5°	9352.3	9260.6	8879.1	7937.6	7087.9	6653.3	6605.0	6716.1	6822.3	6798.2	6667.8
40°	10409.7	10409.7	10066.9	8970.9	7826.6	7063.7	7073.4	6947.8	7044.4	7001.0	7025.1
42.5°	11452.6	11414.0	11273.9	10182.8	8618.4	7749.3	7594.8	7281.0	7454.8	7440.3	7474.1
45°	12510.0	12481.0	12442.4	11312.6	9753.1	8676.4	8594.3	8029.4	8188.7	8121.1	8266.0
47.5°	13354.9	13388.7	13388.7	12572.7	10964.9	9912.4	9791.7	8898.5	9202.6	9236.4	9270.2
50°	14074.3	14088.8	14074.3	13775.0	12316.8	11327.1	11080.8	10173.1	10477.3	10742.8	11051.8
52.5°	15068.9	15088.3	15020.7	14904.8	14151.6	12814.2	12538.9	11529.8	12152.7	12432.7	12988.0
55°	16295.3	16150.5	16024.9	16111.8	15913.9	14450.9	14166.1	12930.0	13866.7	14238.5	15349.0
57.5°	16522.2	16647.8	16966.4	17656.9	17941.8	16044.3	15880.1	14648.9	15802.8	16126.3	17980.4
60°	17323.7	17116.1	17898.3	19395.1	19713.7	18120.4	17951.4	16531.9	17729.3	18067.3	20409.0
62.5°	17850.0	17840.4	18999.1	20775.9	21500.2	20273.8	19931.0	18979.8	19810.3	20138.6	23054.9
65°	17695.5	17835.5	19892.4	21587.1	22992.1	22721.7	22523.8	21084.9	22181.0	22152.0	24778.5
67.5°	16285.7	16681.6	19327.5	22171.3	25213.1	25705.6	25642.8	24044.7	24107.4	23494.2	25546.2
70°	14330.2	14195.0	16937.5	21562.9	26323.6	29244.7	29230.2	26246.3	25840.8	23788.8	23344.6
72°	11008.4	10858.7	13113.5	18516.3	25739.4	30659.3	31093.9	27772.1	25821.4	22567.2	19284.0
72.5°	9994.5	9864.1	12109.2	17430.0	25092.4	31026.3	30823.5	27830.0	25618.7	21992.6	18014.2
75°	4601.3	4451.6	6049.8	10670.4	19573.7	27492.0	28182.5	26043.5	22374.1	17507.2	10791.1
77.5°	1371.2	1327.8	1945.8	4306.8	11375.3	20254.5	20520.0	19651.0	15619.4	9588.9	4002.6
80°	762.9	767.7	1004.3	1612.6	5002.1	11708.5	12664.5	12138.2	7662.4	3167.3	1332.6
82.5°	424.9	449.0	627.7	956.0	2298.2	5373.8	5784.2	5576.6	2771.4	1487.1	729.1
85°	222.1	231.8	328.3	511.8	1303.6	1699.5	1747.8	1873.4	1438.8	1013.9	391.1
87.5°	86.9	86.9	120.7	212.4	482.8	526.3	473.2	574.6	825.6	656.6	193.1
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°	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0	4611.0
2.5°	4683.4	4644.8	4639.9	4577.2	4596.5	4543.4	4548.2	4538.5	4543.4	4533.7	4509.6
5°	4659.3	4630.3	4548.2	4601.3	4553.0	4620.6	4673.7	4654.4	4668.9	4664.1	4668.9
7.5°	4693.1	4654.4	4644.8	4615.8	4659.3	4688.2	4731.7	4852.4	4842.7	4857.2	4886.2
10°	4794.4	4751.0	4722.0	4765.5	4741.3	4833.1	4881.4	4944.1	5055.2	5060.0	5002.1
12.5°	4992.4	4963.4	4905.5	4915.2	4997.2	5026.2	5055.2	5093.8	5166.2	5151.7	5204.8
15°	5219.3	5156.6	5122.8	5113.1	5132.4	5166.2	5161.4	5200.0	5238.6	5272.4	5258.0
17.5°	5383.5	5301.4	5311.1	5359.4	5354.5	5344.9	5282.1	5262.8	5282.1	5301.4	5291.8
20°	5552.5	5562.1	5489.7	5446.3	5426.9	5330.4	5282.1	5224.2	5166.2	5195.2	5238.6
22.5°	5764.9	5721.5	5615.2	5484.9	5388.3	5330.4	5180.7	5079.3	5079.3	5108.3	5093.8
25°	6006.3	5914.6	5731.1	5494.5	5373.8	5127.6	5021.4	5006.9	4968.3	5011.7	5031.0
27.5°	6194.6	6112.6	5861.5	5460.7	5127.6	4929.6	4866.9	4847.6	4910.3	4915.2	4992.4
30°	6271.9	6247.7	5880.8	5373.8	4876.5	4557.9	4519.2	4606.1	4673.7	4775.1	4780.0
32.5°	6373.3	6382.9	5909.8	5171.0	4548.2	4229.5	4171.6	4277.8	4471.0	4553.0	4615.8
35°	6542.3	6590.6	5885.6	4920.0	4200.6	3896.4	3886.7	3915.7	4104.0	4248.9	4330.9
37.5°	6836.8	6827.1	5880.8	4620.6	3925.4	3606.7	3529.4	3539.1	3664.6	3785.3	3770.9
40°	7232.7	7194.1	5866.3	4229.5	3568.1	3360.5	3230.1	3181.8	3172.2	3138.4	3148.0
42.5°	7773.5	7696.2	5861.5	3833.6	3244.6	3022.5	2930.7	2805.2	2713.5	2539.7	2549.3
45°	8526.7	8391.5	5736.0	3461.9	2925.9	2742.4	2602.4	2510.7	2312.7	2095.5	2095.5
47.5°	9690.3	9250.9	5740.8	3051.4	2616.9	2467.2	2370.7	2211.3	1998.9	1825.1	1805.8
50°	11404.3	10400.0	5576.6	2728.0	2365.8	2264.4	2163.1	1979.6	1776.8	1656.1	1670.6
52.5°	13615.6	12114.1	5571.8	2438.3	2167.9	2095.5	1984.4	1820.2	1670.6	1593.3	1564.4
55°	16251.9	14383.3	5745.6	2201.7	1965.1	1926.5	1878.2	1743.0	1598.1	1530.6	1525.7
57.5°	18950.9	16599.5	6025.6	2032.7	1791.3	1820.2	1786.5	1680.2	1564.4	1487.1	1477.4
60°	21350.5	18357.0	5460.7	1829.9	1636.8	1699.5	1747.8	1656.1	1593.3	1588.5	1554.7
62.5°	23161.1	19110.2	4152.3	1675.4	1554.7	1670.6	1800.9	1858.9	1829.9	1868.5	1873.4
65°	23822.6	18656.3	2858.3	1593.3	1491.9	1738.2	2027.9	2008.5	1839.6	1767.1	1805.8
67.5°	22895.5	16816.8	2119.6	1496.8	1448.5	1878.2	2158.2	1916.8	1660.9	1651.3	1622.3
70°	19689.6	14253.0	1728.5	1395.4	1376.0	1800.9	2100.3	1776.8	1564.4	1501.6	1472.6
72°	15687.0	11100.1	1516.1	1322.9	1260.2	1607.8	1965.1	1665.7	1482.3	1405.0	1371.2
72.5°	14320.6	10289.0	1487.1	1289.1	1236.0	1564.4	1897.5	1631.9	1463.0	1395.4	1342.3
75°	7855.6	5267.6	1308.5	1182.9	1042.9	1351.9	1757.5	1530.6	1380.9	1284.3	1274.7
77.5°	2921.1	2042.3	1129.8	1047.7	902.9	1168.4	1598.1	1453.3	1255.3	1134.6	1110.5
80°	1120.2	1076.7	922.2	883.6	758.0	1023.6	1472.6	1303.6	1067.0	946.3	907.7
82.5°	680.8	627.7	700.1	690.4	579.4	931.9	1385.7	1221.5	946.3	767.7	743.5
85°	371.8	371.8	487.7	468.3	405.6	743.5	1047.7	811.1	598.7	492.5	502.1
87.5°	164.2	193.1	260.7	246.2	222.1	420.1	511.8	429.7	299.4	202.8	217.3
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)