

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: P841551

Luminaire Tested: **ARCH4-190-750-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31387 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

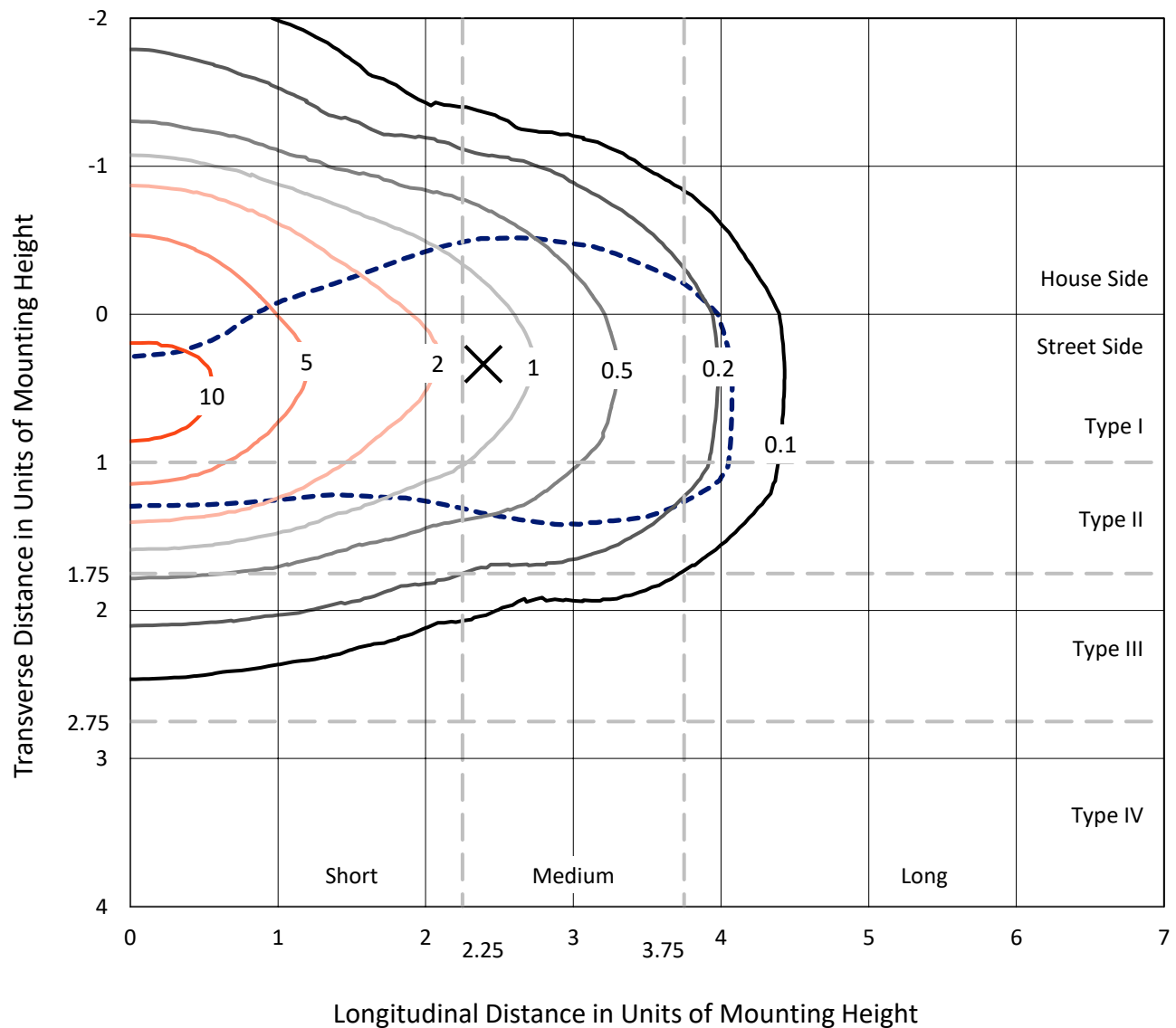
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

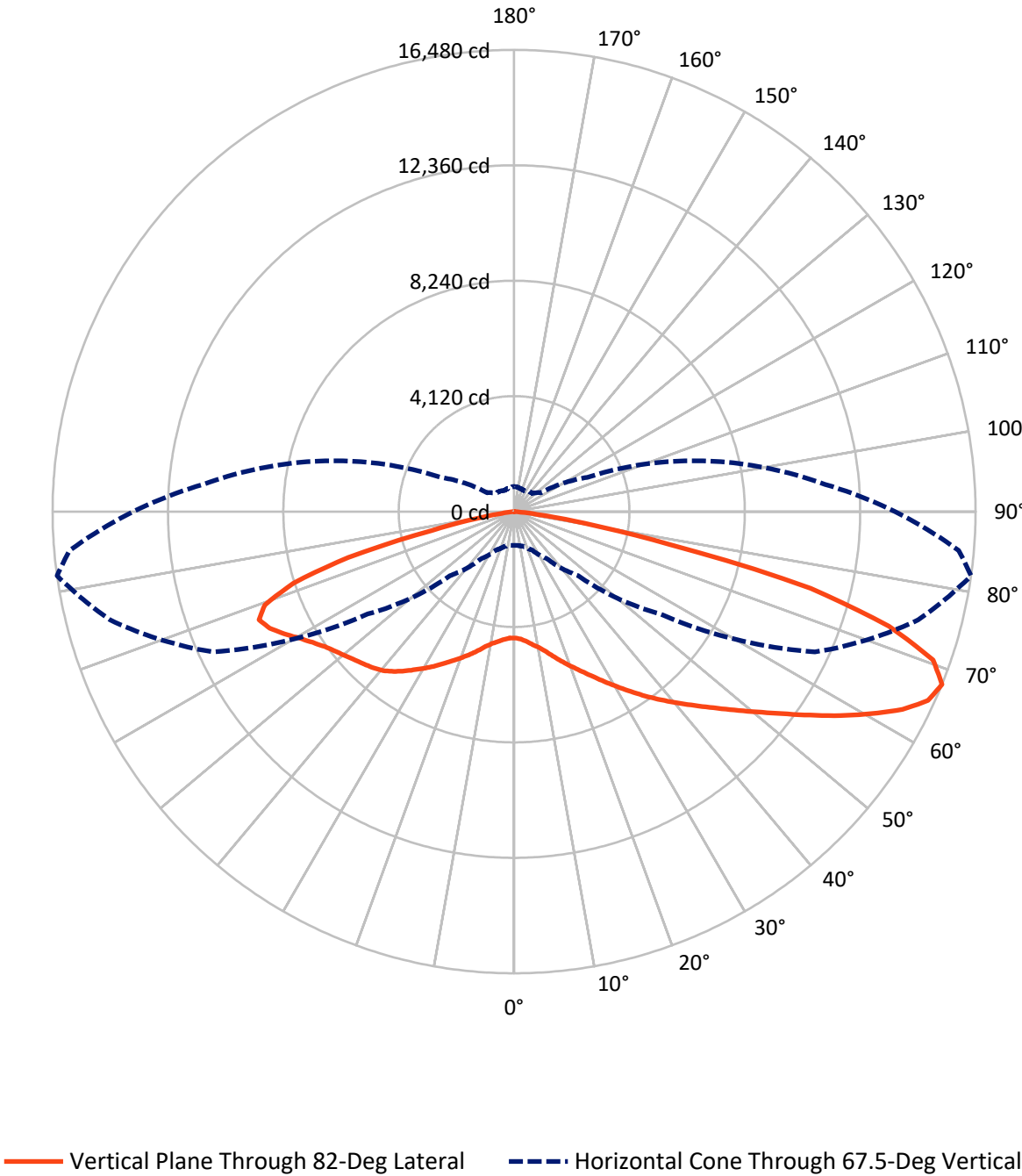
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9558.6	0.0	9558.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	21828.4	0.0	21828.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	31387.0	0.0	31387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.3	1.5
10°-20°	1679.6	5.4
20°-30°	3375.5	10.8
30°-40°	5302.5	16.9
40°-50°	6459.5	20.6
50°-60°	6103.4	19.4
60°-70°	5040.0	16.1
70°-80°	2744.5	8.7
80°-90°	215.8	0.7
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°	31387.0	100.0
0°-180°	31387.0	100.0

Coefficient of Utilization



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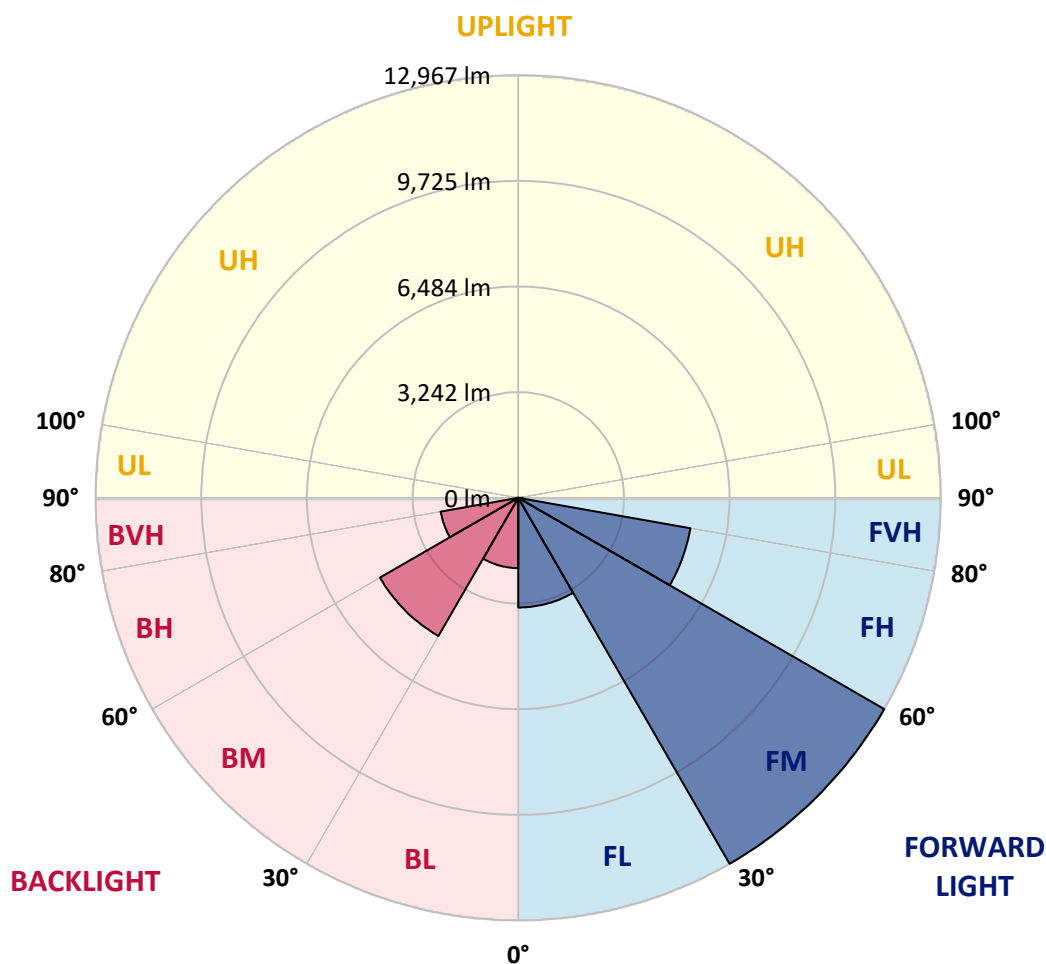
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3365.8	10.7			
FM	(30°-60°)	12967.3	41.3			
FH	(60°-80°)	5365.2	17.1			G3/7500
FVH	(80°-90°)	130.1	0.4			G2/225
BL	(0°-30°)	2155.5	6.9	B3/2500		
BM	(30°-60°)	4898.0	15.6	B3/5000		
BH	(60°-80°)	2419.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	85.7	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9
2.5°	4716.9	4716.9	4753.4	4753.4	4721.5	4671.4	4657.7	4603.0	4552.9	4552.9	4557.4
5°	5168.1	5163.6	5190.9	5154.5	5077.0	4976.7	4908.4	4789.9	4689.6	4657.7	4653.1
7.5°	5719.6	5715.0	5728.7	5669.5	5523.6	5359.5	5222.8	5031.4	4867.3	4799.0	4780.8
10°	6334.8	6330.3	6316.6	6216.3	6020.4	5765.2	5560.1	5295.7	5049.6	4940.3	4917.5
12.5°	7041.2	7032.1	7000.2	6854.4	6585.5	6257.4	5961.1	5619.3	5291.2	5140.8	5090.7
15°	7829.7	7816.0	7756.8	7579.0	7219.0	6804.3	6421.4	5983.9	5582.9	5386.9	5318.5
17.5°	8659.1	8659.1	8568.0	8303.7	7902.6	7387.6	6913.6	6357.6	5888.2	5646.7	5564.6
20°	9502.3	9497.7	9383.8	9064.7	8590.8	7998.3	7396.7	6786.0	6202.7	5911.0	5810.7
22.5°	10391.0	10381.8	10240.6	9876.0	9310.8	8640.9	7939.1	7209.9	6549.0	6198.1	6070.5
25°	11411.8	11398.2	11225.0	10778.3	10108.4	9351.9	8549.8	7706.6	6945.5	6517.1	6366.7
27.5°	12496.5	12478.3	12273.2	11753.6	11019.9	10108.4	9224.3	8280.9	7383.1	6872.6	6704.0
30°	13462.7	13449.0	13225.7	12692.5	11849.3	10860.4	9866.9	8855.1	7843.4	7250.9	7041.2
32.5°	14191.9	14191.9	13991.3	13467.2	12592.2	11580.5	10514.0	9397.4	8321.9	7656.5	7410.4
35°	14633.9	14647.6	14474.4	14055.1	13230.2	12259.5	11184.0	10035.5	8832.3	8089.5	7825.1
37.5°	14697.7	14743.3	14643.1	14360.5	13672.3	12824.6	11840.2	10650.7	9361.0	8527.0	8230.7
40°	14401.5	14433.4	14438.0	14328.6	13854.6	13230.2	12419.0	11302.4	9921.5	8987.3	8645.5
42.5°	13809.0	13831.8	13872.8	13904.7	13722.5	13408.0	12861.1	11908.6	10518.6	9456.7	9055.6
45°	13043.4	13038.8	13107.2	13243.9	13234.8	13307.7	13107.2	12460.0	11138.4	9989.9	9511.4
47.5°	11899.5	11876.7	12118.2	12428.1	12583.1	12924.9	13111.8	12893.0	11812.9	10577.8	10030.9
50°	10108.4	10085.6	10614.3	11343.5	11799.2	12318.8	12861.1	13152.8	12519.3	11238.6	10596.0
52.5°	7929.9	7907.2	8577.1	9853.2	10846.7	11603.2	12355.2	13212.0	13189.2	11977.0	11234.1
55°	5897.3	5879.1	6530.8	7911.7	9520.5	10773.8	11735.4	13057.1	13818.2	12824.6	12008.9
57.5°	4156.4	4147.3	4712.4	5856.3	7816.0	9762.0	11138.4	12756.3	14397.0	13745.2	12883.9
60°	2916.8	2903.1	3313.3	4197.4	5911.0	8235.3	10545.9	12355.2	14829.9	14652.2	13813.6
62.5°	1964.3	1955.1	2246.8	2985.1	4197.4	6339.4	9648.1	12086.3	15076.0	15563.7	14752.4
65°	1490.3	1485.7	1617.9	2023.5	2971.5	4552.9	8221.6	12054.4	15107.9	16247.3	15550.0
67.5°	1203.2	1207.7	1280.6	1513.1	2055.4	3235.8	6375.9	11853.9	14939.3	16479.7	15937.4
70°	984.4	984.4	1016.3	1171.3	1517.6	2183.0	4452.6	10942.4	14469.9	15873.6	15477.1
72.5°	752.0	756.5	856.8	947.9	1143.9	1531.3	2853.0	9055.6	13362.4	13995.9	13695.1
75°	597.0	592.5	651.7	779.3	888.7	1093.8	1750.1	6494.4	11370.8	10937.9	10746.4
77.5°	428.4	423.8	469.4	578.8	674.5	774.8	1043.7	3276.8	6184.4	5683.1	5541.8
80°	291.7	282.6	323.6	401.1	446.6	455.7	510.4	1257.9	2698.0	2543.1	2511.1
82.5°	150.4	150.4	173.2	227.9	232.4	237.0	227.9	405.6	893.3	834.0	797.6
85°	59.2	59.2	63.8	77.5	77.5	82.0	82.0	104.8	95.7	91.1	86.6
87.5°	4.6	4.6	9.1	9.1	13.7	13.7	13.7	18.2	22.8	22.8	22.8
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°	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9	4511.9
2.5°	4548.3	4530.1	4470.8	4457.2	4448.1	4434.4	4438.9	4407.0	4393.4	4397.9	4379.7
5°	4630.4	4598.5	4525.5	4493.6	4484.5	4470.8	4484.5	4461.7	4438.9	4448.1	4438.9
7.5°	4744.3	4698.7	4607.6	4575.7	4571.1	4557.4	4575.7	4557.4	4539.2	4548.3	4530.1
10°	4862.8	4803.5	4703.3	4671.4	4671.4	4666.8	4685.0	4657.7	4639.5	4644.0	4634.9
12.5°	5036.0	4958.5	4849.1	4821.8	4808.1	4821.8	4826.3	4789.9	4758.0	4762.5	4748.9
15°	5245.6	5159.0	5040.5	4999.5	4990.4	4985.8	4967.6	4922.0	4881.0	4876.5	4862.8
17.5°	5473.5	5364.1	5222.8	5181.8	5140.8	5127.1	5081.5	5022.3	4958.5	4958.5	4940.3
20°	5692.2	5569.2	5400.6	5341.3	5282.1	5227.4	5149.9	5054.2	4972.2	4958.5	4940.3
22.5°	5929.2	5783.4	5587.4	5500.8	5396.0	5286.6	5154.5	5026.9	4922.0	4899.2	4885.6
25°	6193.6	6011.3	5778.8	5651.2	5482.6	5314.0	5118.0	4953.9	4830.9	4794.4	4785.3
27.5°	6485.2	6266.5	5983.9	5797.1	5551.0	5286.6	5036.0	4840.0	4689.6	4644.0	4630.4
30°	6781.5	6521.7	6170.8	5897.3	5551.0	5200.0	4885.6	4657.7	4484.5	4420.7	4411.6
32.5°	7077.7	6786.0	6339.4	5952.0	5496.3	5054.2	4689.6	4420.7	4224.7	4147.3	4165.5
35°	7433.2	7077.7	6494.4	5974.8	5405.1	4876.5	4466.3	4151.8	3951.3	3882.9	3896.6
37.5°	7802.3	7369.4	6617.4	5956.6	5277.5	4675.9	4215.6	3910.3	3659.6	3541.1	3554.8
40°	8121.4	7633.7	6704.0	5892.8	5113.4	4448.1	3969.5	3568.5	3222.1	3108.2	3094.5
42.5°	8422.1	7829.7	6749.6	5797.1	4926.6	4183.7	3618.6	3103.6	2757.3	2616.0	2620.5
45°	8736.6	8021.1	6731.3	5669.5	4694.2	3873.8	3167.4	2647.9	2342.5	2214.9	2219.5
47.5°	9096.6	8226.2	6713.1	5532.7	4411.6	3472.8	2734.5	2246.8	1982.5	1891.3	1882.2
50°	9479.5	8454.1	6690.3	5364.1	4097.1	3026.1	2306.1	1873.1	1649.8	1590.5	1576.9
52.5°	9912.4	8700.2	6676.6	5163.6	3718.9	2552.2	1923.2	1545.0	1394.6	1353.6	1349.0
55°	10432.0	8987.3	6694.9	4922.0	3263.1	2105.5	1599.7	1330.8	1230.5	1207.7	1203.2
57.5°	11065.5	9356.4	6749.6	4639.5	2784.6	1718.2	1362.7	1198.6	1134.8	1116.6	1116.6
60°	11753.6	9775.7	6849.8	4320.5	2306.1	1417.4	1207.7	1093.8	1066.4	1089.2	1089.2
62.5°	12496.5	10267.9	7027.6	3933.1	1859.4	1198.6	1084.7	1007.2	989.0	1034.5	1039.1
65°	13184.7	10746.4	7141.5	3468.2	1476.6	1039.1	989.0	920.6	929.7	975.3	970.7
67.5°	13608.5	11142.9	6982.0	2884.9	1171.3	920.6	888.7	829.5	852.2	888.7	893.3
70°	13348.7	10919.6	6193.6	2178.5	916.0	802.1	779.3	742.9	761.1	806.7	824.9
72.5°	12077.2	9780.3	4817.2	1472.1	738.3	674.5	683.6	665.4	688.2	729.2	770.2
75°	9803.1	7392.2	3231.2	943.4	583.4	574.2	587.9	574.2	583.4	624.4	647.2
77.5°	5118.0	3604.9	1608.8	587.9	433.0	446.6	469.4	474.0	501.3	510.4	519.5
80°	2388.1	1622.4	669.9	328.1	287.1	314.5	360.0	364.6	373.7	387.4	391.9
82.5°	779.3	487.6	309.9	177.7	164.1	177.7	232.4	278.0	282.6	309.9	309.9
85°	82.0	50.1	68.4	72.9	63.8	77.5	104.8	100.3	45.6	27.3	27.3
87.5°	22.8	18.2	22.8	22.8	18.2	18.2	13.7	4.6	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)