

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: P842244

Luminaire Tested: **ARCH4-290-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842244
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: ARCH4-290-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41069 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 289.7
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



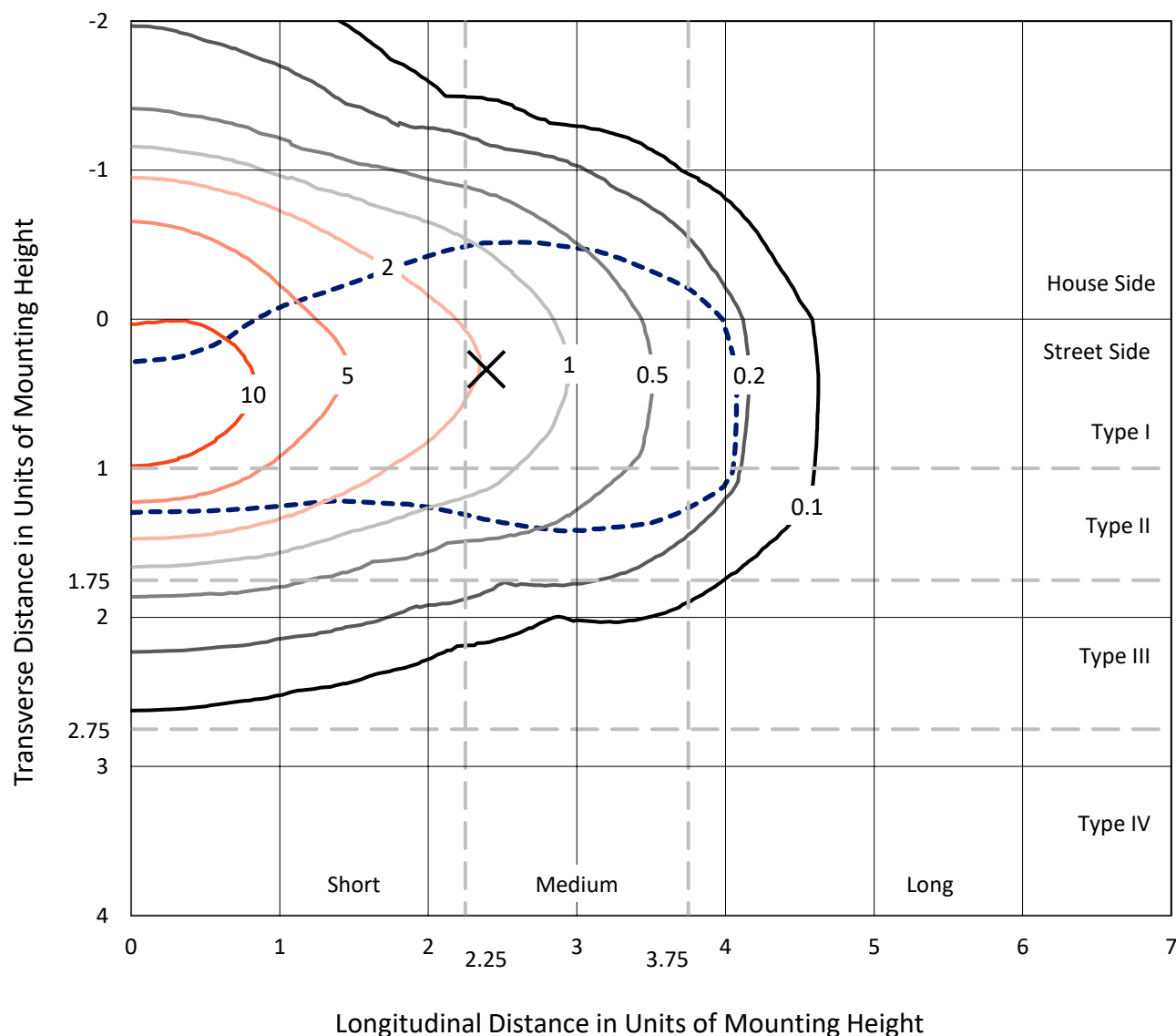
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

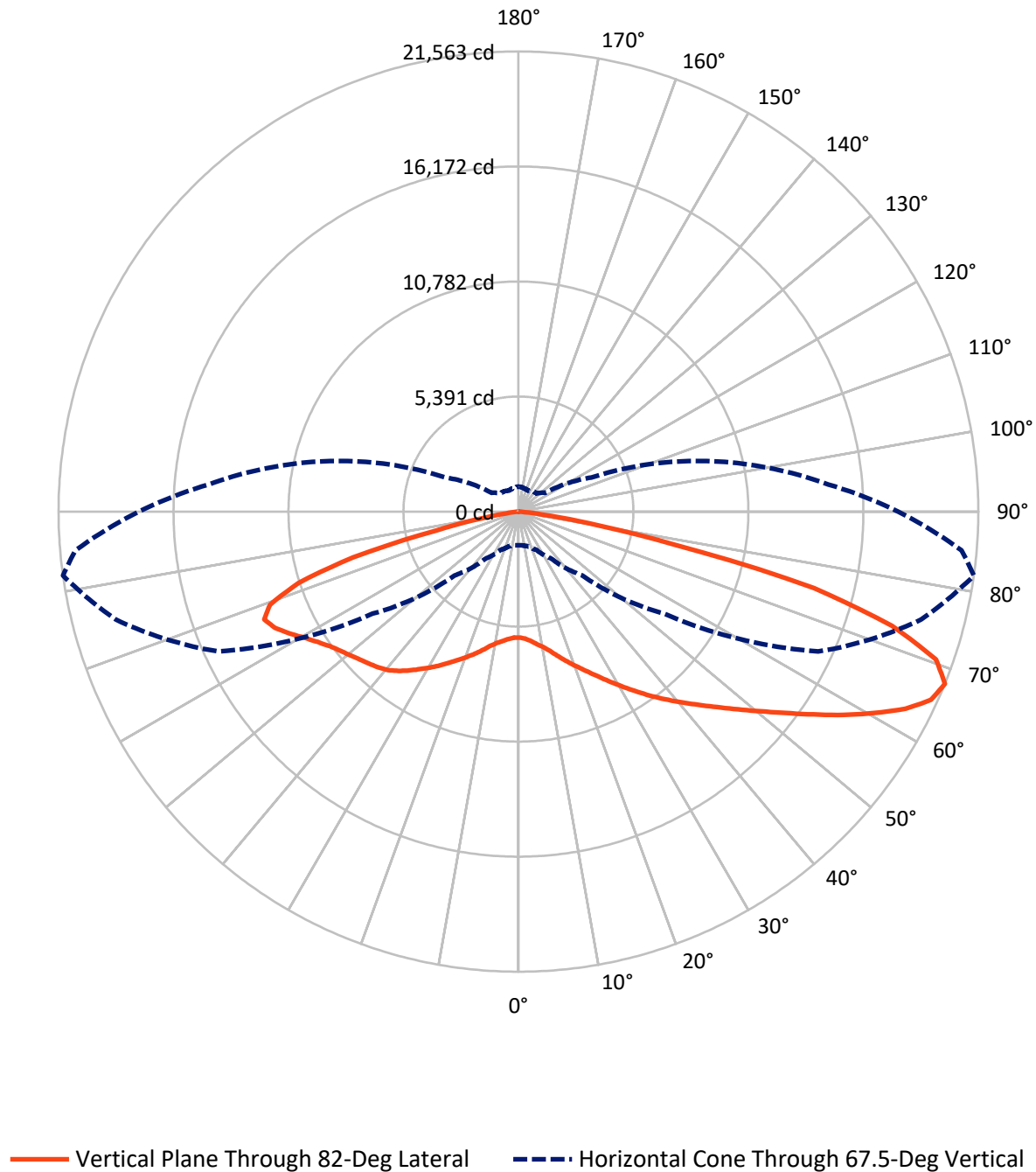
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	12507.2	0.0	12507.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	28561.8	0.0	28561.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	41069.0	0.0	41069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.1	1.5
10°-20°	2197.7	5.4
20°-30°	4416.8	10.8
30°-40°	6938.1	16.9
40°-50°	8452.0	20.6
50°-60°	7986.1	19.4
60°-70°	6594.7	16.1
70°-80°	3591.1	8.7
80°-90°	282.4	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°	41069.0	100.0
0°-180°	41069.0	100.0

Coefficient of Utilization



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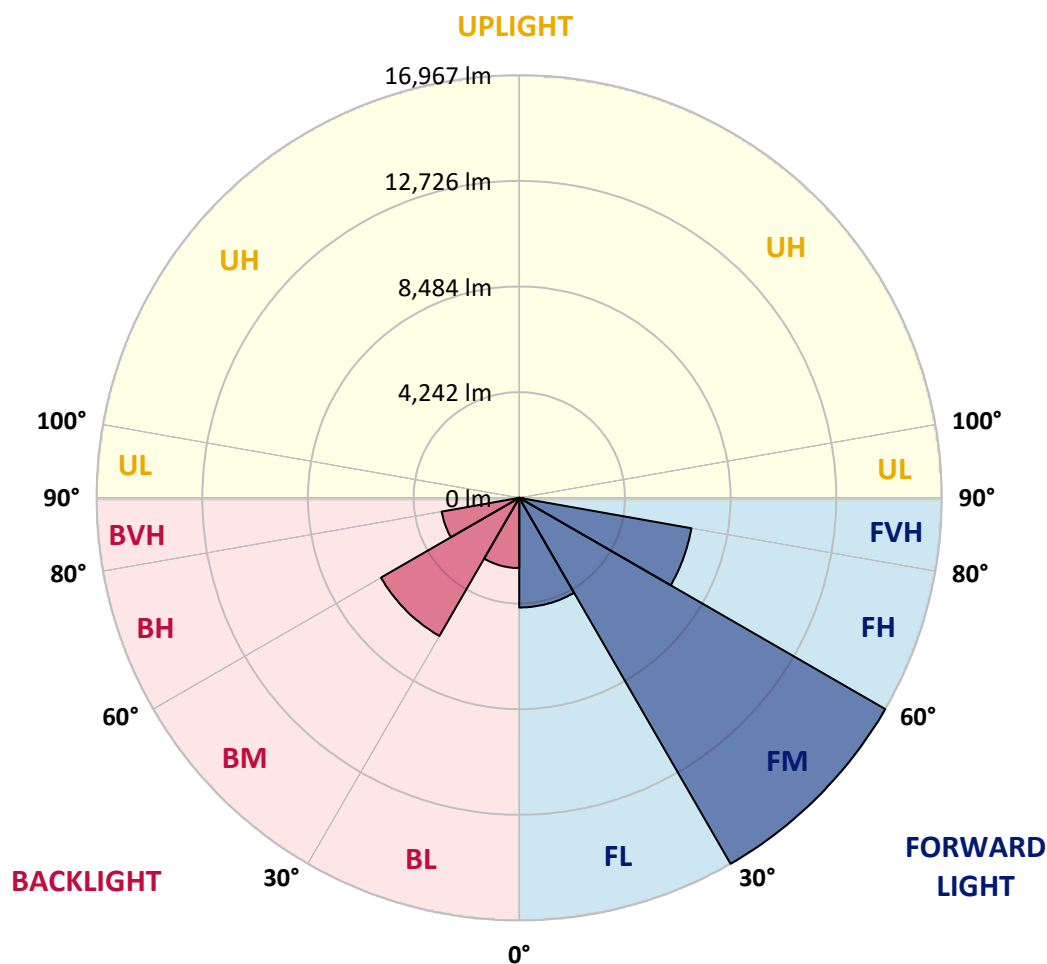
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4404.1	10.7			
FM	(30°-60°)	16967.4	41.3			
FH	(60°-80°)	7020.2	17.1			G3/7500
FVH	(80°-90°)	170.2	0.4			G2/225
BL	(0°-30°)	2820.5	6.9	B4/5000		
BM	(30°-60°)	6408.9	15.6	B4/8500		
BH	(60°-80°)	3165.6	7.7	B4/5000		G4/5000
BVH	(80°-90°)	112.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6
2.5°	6172.0	6172.0	6219.7	6219.7	6178.0	6112.4	6094.5	6022.9	5957.3	5957.3	5963.3
5°	6762.4	6756.4	6792.2	6744.5	6643.1	6511.9	6422.5	6267.4	6136.2	6094.5	6088.5
7.5°	7483.9	7478.0	7495.8	7418.3	7227.5	7012.8	6833.9	6583.5	6368.8	6279.3	6255.5
10°	8289.0	8283.0	8265.1	8133.9	7877.5	7543.5	7275.2	6929.3	6607.3	6464.2	6434.4
12.5°	9213.3	9201.3	9159.6	8968.8	8616.9	8187.6	7800.0	7352.7	6923.4	6726.6	6661.0
15°	10244.9	10227.0	10149.5	9916.9	9445.8	8903.2	8402.3	7829.8	7305.0	7048.6	6959.1
17.5°	11330.2	11330.2	11211.0	10865.1	10340.3	9666.5	9046.3	8318.8	7704.6	7388.5	7281.2
20°	12433.4	12427.5	12278.4	11861.0	11240.8	10465.6	9678.4	8879.3	8116.0	7734.4	7603.2
22.5°	13596.3	13584.4	13399.5	12922.4	12183.0	11306.4	10388.0	9433.9	8569.2	8110.1	7943.1
25°	14932.1	14914.2	14687.6	14103.2	13226.6	12236.7	11187.1	10083.9	9088.0	8527.5	8330.7
27.5°	16351.3	16327.5	16059.1	15379.3	14419.2	13226.6	12069.7	10835.3	9660.5	8992.6	8772.0
30°	17615.5	17597.6	17305.4	16607.7	15504.5	14210.5	12910.5	11586.7	10262.8	9487.6	9213.3
32.5°	18569.7	18569.7	18307.3	17621.5	16476.5	15152.7	13757.3	12296.3	10888.9	10018.3	9696.3
35°	19148.1	19166.0	18939.4	18390.8	17311.4	16041.2	14633.9	13131.1	11556.8	10584.8	10239.0
37.5°	19231.6	19291.2	19160.0	18790.3	17889.8	16780.7	15492.6	13936.2	12248.6	11157.3	10769.7
40°	18844.0	18885.7	18891.7	18748.6	18128.4	17311.4	16249.9	14788.9	12982.1	11759.6	11312.3
42.5°	18068.7	18098.6	18152.2	18194.0	17955.4	17544.0	16828.4	15582.1	13763.3	12373.8	11849.0
45°	17066.9	17060.9	17150.4	17329.3	17317.4	17412.8	17150.4	16303.6	14574.3	13071.5	12445.4
47.5°	15570.1	15540.3	15856.4	16261.9	16464.6	16911.9	17156.4	16870.1	15456.8	13840.8	13125.2
50°	13226.6	13196.7	13888.5	14842.6	15438.9	16118.7	16828.4	17210.0	16381.1	14705.4	13864.6
52.5°	10376.1	10346.3	11222.9	12892.6	14192.6	15182.5	16166.5	17287.5	17257.7	15671.5	14699.5
55°	7716.5	7692.6	8545.4	10352.3	12457.3	14097.2	15355.4	17084.8	18080.7	16780.7	15713.2
57.5°	5438.5	5426.6	6166.0	7662.8	10227.0	12773.3	14574.3	16691.2	18838.0	17985.3	16858.2
60°	3816.5	3798.6	4335.3	5492.2	7734.4	10775.6	13799.0	16166.5	19404.5	19171.9	18074.7
62.5°	2570.2	2558.2	2939.9	3905.9	5492.2	8294.9	12624.3	15814.6	19726.5	20364.6	19303.1
65°	1950.0	1944.0	2117.0	2647.7	3888.1	5957.3	10757.8	15772.9	19768.3	21259.1	20346.7
67.5°	1574.3	1580.3	1675.7	1979.8	2689.4	4233.9	8342.6	15510.5	19547.6	21563.2	20853.6
70°	1288.1	1288.1	1329.8	1532.6	1985.8	2856.4	5826.1	14317.8	18933.4	20770.1	20251.3
72.5°	983.9	989.9	1121.1	1240.4	1496.8	2003.7	3733.0	11849.0	17484.3	18313.2	17919.7
75°	781.2	775.2	852.7	1019.7	1162.8	1431.2	2289.9	8497.7	14878.4	14311.9	14061.4
77.5°	560.5	554.6	614.2	757.3	882.6	1013.8	1365.6	4287.6	8092.2	7436.2	7251.3
80°	381.6	369.7	423.4	524.8	584.4	596.3	667.9	1645.9	3530.3	3327.5	3285.8
82.5°	196.8	196.8	226.6	298.2	304.1	310.1	298.2	530.7	1168.8	1091.3	1043.6
85°	77.5	77.5	83.5	101.4	101.4	107.3	107.3	137.2	125.2	119.3	113.3
87.5°	6.0	6.0	11.9	11.9	17.9	17.9	17.9	23.9	29.8	29.8	29.8
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°	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6	5903.6
2.5°	5951.4	5927.5	5850.0	5832.1	5820.2	5802.3	5808.2	5766.5	5748.6	5754.6	5730.7
5°	6058.7	6016.9	5921.5	5879.8	5867.9	5850.0	5867.9	5838.1	5808.2	5820.2	5808.2
7.5°	6207.8	6148.1	6028.9	5987.1	5981.2	5963.3	5987.1	5963.3	5939.4	5951.4	5927.5
10°	6362.8	6285.3	6154.1	6112.4	6112.4	6106.4	6130.3	6094.5	6070.6	6076.6	6064.7
12.5°	6589.4	6488.0	6344.9	6309.2	6291.3	6309.2	6315.1	6267.4	6225.7	6231.6	6213.7
15°	6863.7	6750.4	6595.4	6541.7	6529.8	6523.8	6500.0	6440.3	6386.7	6380.7	6362.8
17.5°	7161.9	7018.8	6833.9	6780.2	6726.6	6708.7	6649.1	6571.5	6488.0	6488.0	6464.2
20°	7448.1	7287.1	7066.5	6989.0	6911.4	6839.9	6738.5	6613.3	6505.9	6488.0	6464.2
22.5°	7758.2	7567.4	7311.0	7197.7	7060.5	6917.4	6744.5	6577.5	6440.3	6410.5	6392.6
25°	8104.1	7865.6	7561.4	7394.5	7173.8	6953.2	6696.8	6482.1	6321.1	6273.4	6261.4
27.5°	8485.7	8199.5	7829.8	7585.3	7263.3	6917.4	6589.4	6333.0	6136.2	6076.6	6058.7
30°	8873.4	8533.5	8074.3	7716.5	7263.3	6804.1	6392.6	6094.5	5867.9	5784.4	5772.5
32.5°	9261.0	8879.3	8294.9	7788.0	7191.7	6613.3	6136.2	5784.4	5528.0	5426.6	5450.4
35°	9726.1	9261.0	8497.7	7817.9	7072.5	6380.7	5844.0	5432.5	5170.2	5080.7	5098.6
37.5°	10209.1	9642.6	8658.7	7794.0	6905.5	6118.3	5516.0	5116.5	4788.5	4633.5	4651.4
40°	10626.6	9988.5	8772.0	7710.5	6690.8	5820.2	5194.0	4669.2	4216.0	4067.0	4049.1
42.5°	11020.1	10244.9	8831.6	7585.3	6446.3	5474.3	4734.8	4061.0	3607.8	3422.9	3428.9
45°	11431.6	10495.4	8807.8	7418.3	6142.2	5068.8	4144.5	3464.7	3065.1	2898.2	2904.1
47.5°	11902.7	10763.7	8783.9	7239.4	5772.5	4544.0	3578.0	2939.9	2594.0	2474.8	2462.8
50°	12403.6	11061.9	8754.1	7018.8	5361.0	3959.6	3017.4	2450.9	2158.7	2081.2	2063.3
52.5°	12970.1	11383.9	8736.2	6756.4	4866.0	3339.4	2516.5	2021.6	1824.8	1771.1	1765.1
55°	13649.9	11759.6	8760.1	6440.3	4269.7	2755.0	2093.1	1741.3	1610.1	1580.3	1574.3
57.5°	14478.8	12242.6	8831.6	6070.6	3643.6	2248.2	1783.0	1568.3	1484.9	1461.0	1461.0
60°	15379.3	12791.2	8962.8	5653.2	3017.4	1854.6	1580.3	1431.2	1395.4	1425.2	1425.2
62.5°	16351.3	13435.3	9195.4	5146.3	2433.0	1568.3	1419.3	1317.9	1294.0	1353.7	1359.6
65°	17251.8	14061.4	9344.5	4538.1	1932.1	1359.6	1294.0	1204.6	1216.5	1276.1	1270.2
67.5°	17806.4	14580.2	9135.7	3774.8	1532.6	1204.6	1162.8	1085.3	1115.1	1162.8	1168.8
70°	17466.4	14288.0	8104.1	2850.4	1198.6	1049.5	1019.7	972.0	995.9	1055.5	1079.4
72.5°	15802.7	12797.2	6303.2	1926.1	966.1	882.6	894.5	870.6	900.5	954.1	1007.8
75°	12827.0	9672.4	4228.0	1234.4	763.3	751.4	769.3	751.4	763.3	817.0	846.8
77.5°	6696.8	4717.0	2105.0	769.3	566.5	584.4	614.2	620.2	656.0	667.9	679.8
80°	3124.8	2122.9	876.6	429.4	375.7	411.5	471.1	477.1	489.0	506.9	512.8
82.5°	1019.7	638.1	405.5	232.6	214.7	232.6	304.1	363.8	369.7	405.5	405.5
85°	107.3	65.6	89.4	95.4	83.5	101.4	137.2	131.2	59.6	35.8	35.8
87.5°	29.8	23.9	29.8	29.8	23.9	23.9	17.9	6.0	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)