

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: P1211449

Luminaire Tested: **ARCH4-280-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37353 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 279.7
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

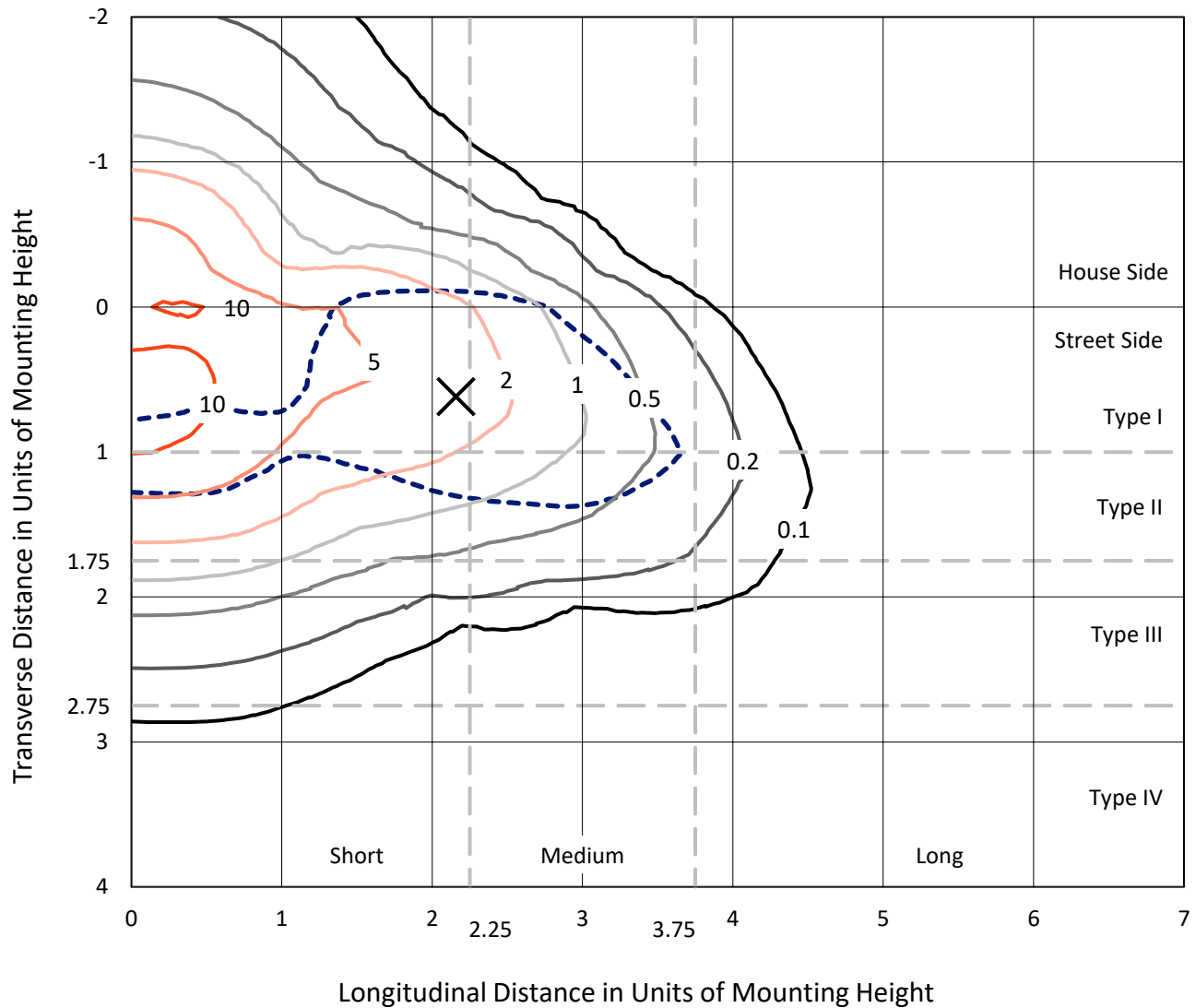


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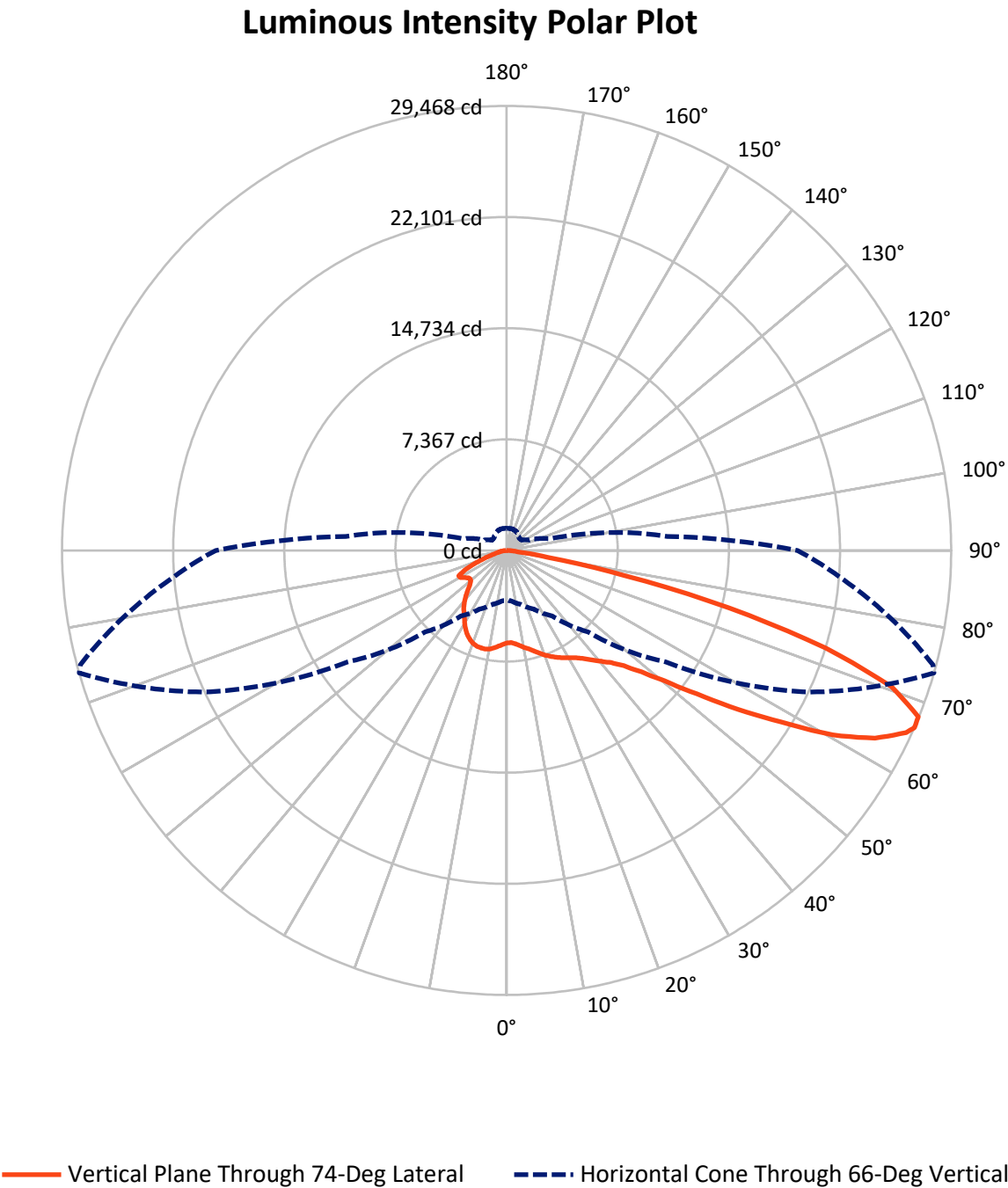
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9096.5	0.0	9096.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	28256.5	0.0	28256.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	37353.0	0.0	37353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.1	1.6
10°-20°	1796.3	4.8
20°-30°	3370.7	9.0
30°-40°	5185.0	13.9
40°-50°	6974.3	18.7
50°-60°	8247.9	22.1
60°-70°	7629.8	20.4
70°-80°	3209.8	8.6
80°-90°	355.2	1.0
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°	37353.0	100.0
0°-180°	37353.0	100.0

Coefficient of Utilization



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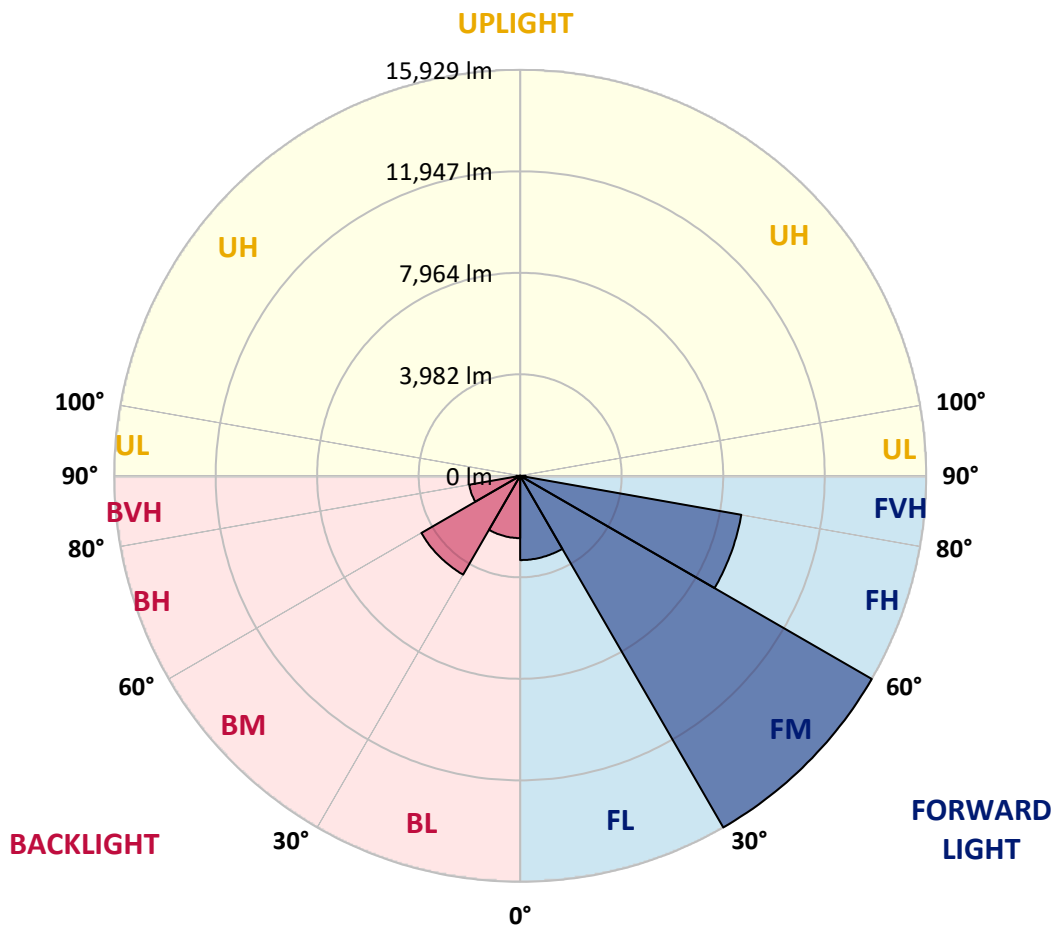
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3306.2	8.9			
FM	(30°-60°)	15929.0	42.6			
FH	(60°-80°)	8808.9	23.6			G4/12000
FVH	(80°-90°)	212.5	0.6			G2/225
BL	(0°-30°)	2444.9	6.5	B3/2500		
BM	(30°-60°)	4478.2	12.0	B3/5000		
BH	(60°-80°)	2030.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	142.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4
2.5°	6104.2	6094.6	6113.8	6142.6	6157.0	6133.0	6123.4	6118.6	6118.6	6104.2	6128.2
5°	5815.8	5811.0	5854.2	5907.1	6008.0	6080.1	6176.3	6233.9	6214.7	6185.9	6205.1
7.5°	5440.9	5431.3	5484.1	5585.1	5724.5	5883.1	6118.6	6301.2	6373.3	6363.7	6358.9
10°	5585.1	5575.5	5570.7	5541.8	5589.9	5743.7	5988.8	6310.8	6556.0	6560.8	6565.6
12.5°	6084.9	6109.0	6084.9	5993.6	5887.9	5830.2	5974.4	6334.9	6709.8	6738.6	6858.8
15°	6767.5	6743.4	6695.4	6589.6	6426.2	6253.2	6147.4	6445.4	6930.9	6954.9	7219.3
17.5°	7368.3	7387.5	7358.7	7257.7	7065.5	6839.6	6517.5	6637.7	7166.4	7233.7	7603.8
20°	8021.9	8098.8	8060.4	7935.4	7776.8	7440.4	7036.6	6916.5	7425.9	7474.0	8002.7
22.5°	8776.6	8858.3	8786.2	8666.0	8536.2	8122.9	7603.8	7257.7	7642.2	7743.2	8387.2
25°	9680.2	9757.1	9689.8	9502.3	9338.9	8834.2	8214.2	7642.2	7853.7	7964.3	8699.6
27.5°	10396.3	10454.0	10516.5	10405.9	10156.0	9632.1	8848.6	8041.2	8065.2	8180.6	8988.0
30°	11035.6	11179.8	11232.6	11247.1	11035.6	10449.2	9497.5	8454.5	8247.8	8368.0	9276.4
32.5°	11910.3	12126.6	12040.1	12126.6	12001.7	11218.2	10170.4	8882.3	8483.4	8593.9	9550.4
35°	13188.9	13361.9	13136.0	13068.7	12866.8	11996.9	10819.3	9324.5	8795.8	8915.9	9809.9
37.5°	14563.5	14760.6	14433.7	14164.6	13780.1	12765.9	11376.8	9906.1	9228.4	9324.5	10050.3
40°	15765.1	15928.5	15644.9	15289.3	14645.2	13443.6	11857.5	10314.6	9660.9	9781.1	10329.0
42.5°	16875.4	16981.1	16663.9	16322.7	15462.3	14054.0	12376.6	10747.2	10165.6	10281.0	10554.9
45°	18000.1	18081.8	17639.6	17154.2	16144.8	14611.6	12948.5	11352.8	10905.8	11059.6	10920.2
47.5°	18202.0	18226.0	18149.1	17822.3	16683.1	15145.1	13655.1	12165.1	12035.3	12203.5	11549.9
50°	16803.3	17019.6	17495.4	17817.5	16899.4	15592.1	14361.6	13328.2	13592.6	13808.9	12857.2
52.5°	14087.7	14294.3	15395.0	16615.8	16380.3	15693.0	15121.0	14803.8	15789.1	16048.7	14635.6
55°	11223.0	11405.7	12568.8	14328.0	14702.9	15231.6	15933.3	16687.9	18591.3	18764.3	16587.0
57.5°	9242.8	9343.7	10175.2	11867.1	12467.9	13756.0	16370.7	18927.7	21441.5	21705.9	18283.7
60°	7579.7	7690.3	8310.3	9704.2	10502.1	11646.0	16024.7	21138.7	24844.5	24844.5	20461.0
62.5°	5705.2	5801.4	6378.1	7469.2	8810.2	9858.0	14919.2	22604.7	27411.1	27295.7	22037.5
65°	3917.2	3994.1	4412.3	5138.1	6344.5	8401.6	13410.0	22623.9	29112.6	28958.8	22710.4
66°	3287.6	3354.9	3710.6	4297.0	5311.1	7623.0	12876.4	22215.3	29468.3	29252.0	22426.8
67.5°	2595.5	2643.5	2879.1	3225.1	3893.2	6171.5	12035.3	21057.0	29434.6	29304.8	21705.9
70°	1855.3	1888.9	2062.0	2134.1	2302.3	3571.2	9560.0	18442.3	27074.7	27113.1	18870.1
72.5°	1437.1	1490.0	1595.7	1610.2	1571.7	1898.5	5801.4	15385.4	22148.1	22133.6	14006.0
75°	1158.4	1187.2	1240.1	1268.9	1259.3	1225.6	2456.1	11477.8	15246.0	15423.9	7844.1
77.5°	913.2	908.4	956.5	994.9	1023.8	961.3	1124.7	6729.0	7993.1	7767.2	2946.3
80°	672.9	672.9	740.2	754.6	797.9	807.5	749.8	2595.5	2744.5	2494.5	764.2
82.5°	442.2	442.2	514.3	523.9	567.2	629.6	543.1	778.6	759.4	721.0	346.1
85°	240.3	230.7	254.7	288.4	312.4	370.1	326.8	389.3	398.9	394.1	230.7
87.5°	48.1	43.3	67.3	76.9	86.5	115.4	105.7	158.6	221.1	216.3	100.9
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°	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4	6123.4
2.5°	6161.9	6157.0	6209.9	6272.4	6344.5	6387.8	6407.0	6440.6	6416.6	6426.2	6455.0
5°	6253.2	6267.6	6344.5	6426.2	6459.8	6435.8	6382.9	6363.7	6320.5	6310.8	6301.2
7.5°	6387.8	6411.8	6488.7	6507.9	6407.0	6238.8	6118.6	6051.3	5979.2	5960.0	5950.4
10°	6608.8	6623.3	6642.5	6445.4	6195.5	5969.6	5820.6	5758.1	5710.0	5671.6	5681.2
12.5°	6887.6	6878.0	6729.0	6320.5	5964.8	5734.1	5633.1	5594.7	5561.0	5537.0	5532.2
15°	7238.5	7171.2	6743.4	6147.4	5748.5	5556.2	5484.1	5469.7	5431.3	5431.3	5426.5
17.5°	7594.2	7421.1	6733.8	5964.8	5541.8	5436.1	5392.8	5383.2	5373.6	5368.8	5383.2
20°	7949.8	7642.2	6656.9	5738.9	5397.6	5335.1	5325.5	5330.3	5320.7	5335.1	5325.5
22.5°	8262.3	7786.4	6512.7	5498.6	5296.7	5291.9	5267.9	5277.5	5311.1	5315.9	5330.3
25°	8502.6	7839.3	6301.2	5277.5	5224.6	5215.0	5243.8	5282.3	5311.1	5315.9	5339.9
27.5°	8699.6	7810.5	6036.9	5104.4	5099.6	5152.5	5239.0	5253.4	5258.2	5258.2	5239.0
30°	8848.6	7748.0	5700.4	4912.2	4936.2	5066.0	5147.7	5147.7	5109.2	5099.6	5128.5
32.5°	8882.3	7666.3	5335.1	4715.1	4753.6	4907.4	5008.3	4974.7	4931.4	4931.4	4950.6
35°	8911.1	7555.7	5042.0	4446.0	4503.6	4686.3	4782.4	4715.1	4667.0	4652.6	4647.8
37.5°	8901.5	7512.5	4777.6	4104.7	4181.6	4359.4	4421.9	4359.4	4287.3	4253.7	4297.0
40°	8911.1	7483.6	4446.0	3729.8	3806.7	3912.4	3994.1	3946.1	3878.8	3792.3	3835.5
42.5°	8968.8	7522.1	4080.7	3364.5	3364.5	3422.2	3561.6	3527.9	3364.5	3330.9	3369.3
45°	9276.4	7728.7	3715.4	2999.2	2946.3	2984.8	3129.0	2984.8	2883.9	2883.9	2917.5
47.5°	10021.4	8113.3	3393.3	2677.2	2552.2	2629.1	2667.6	2533.0	2456.1	2436.9	2470.5
50°	11540.3	8882.3	3201.1	2412.8	2259.0	2316.7	2292.7	2287.9	2211.0	2220.6	2239.8
52.5°	13847.3	10381.9	3143.4	2283.1	2090.8	2105.2	2081.2	2090.8	2076.4	2124.4	2138.9
55°	16361.1	11963.2	3215.5	2302.3	1975.4	1874.5	1884.1	1932.2	1989.9	2066.8	2081.2
57.5°	18240.4	12756.3	3403.0	2432.1	1831.3	1677.4	1701.5	1792.8	1903.3	1965.8	1999.5
60°	19639.1	12660.2	3676.9	2465.7	1658.2	1499.6	1542.9	1677.4	1773.6	1826.4	1860.1
62.5°	20095.7	12059.3	3744.2	2220.6	1432.3	1331.4	1437.1	1576.5	1619.8	1677.4	1701.5
65°	19720.8	11208.6	3254.0	1802.4	1259.3	1206.4	1360.2	1466.0	1523.6	1552.5	1557.3
66°	19278.6	10699.1	2989.6	1639.0	1196.8	1168.0	1331.4	1417.9	1475.6	1470.8	1475.6
67.5°	18307.7	9632.1	2561.8	1408.3	1105.5	1110.3	1283.3	1341.0	1360.2	1345.8	1345.8
70°	15005.7	6781.9	1836.1	1067.0	970.9	1038.2	1153.5	1168.0	1211.2	1192.0	1192.0
72.5°	9252.4	3330.9	1230.4	817.1	865.2	970.9	966.1	1014.2	1115.1	1143.9	1163.2
75°	4546.9	1350.6	812.3	692.1	773.8	812.3	802.7	922.8	1067.0	1192.0	1235.3
77.5°	1725.5	672.9	567.2	605.6	624.8	610.4	639.3	836.3	1067.0	1292.9	1336.2
80°	533.5	466.2	447.0	499.9	471.0	447.0	480.6	692.1	903.6	980.5	980.5
82.5°	322.0	365.3	346.1	341.3	317.2	322.0	346.1	495.1	696.9	730.6	730.6
85°	225.9	240.3	197.1	187.5	182.6	177.8	177.8	288.4	413.4	408.5	423.0
87.5°	86.5	96.1	72.1	72.1	67.3	48.1	38.5	48.1	48.1	33.6	24.0
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)