

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: P1211513

Luminaire Tested: **ARCH4-300-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211513
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: ARCH4-300-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39137 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 299.2
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



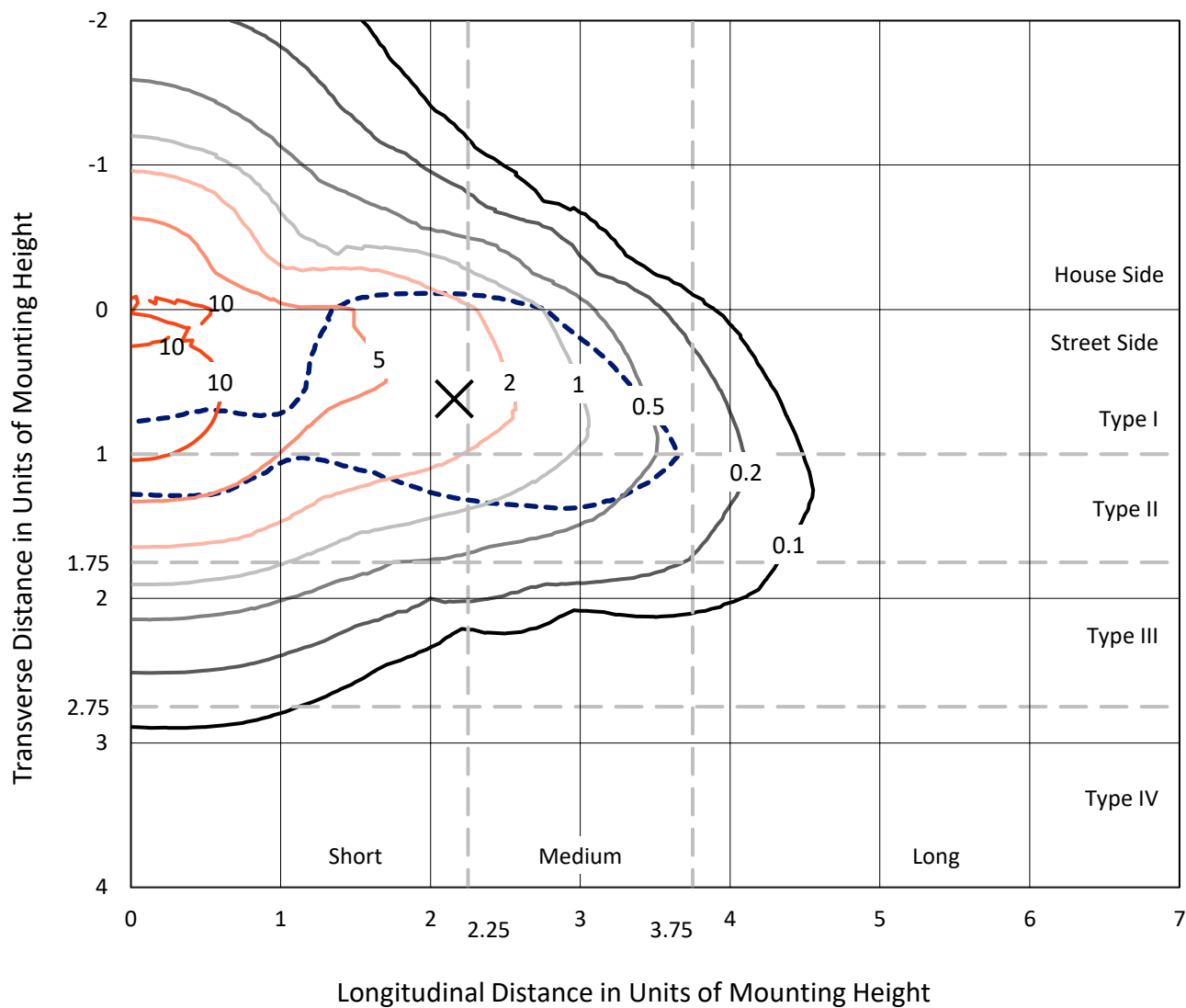
REPORT NUMBER: P1211513

CATALOG NUMBER: ARCH4-300-727-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

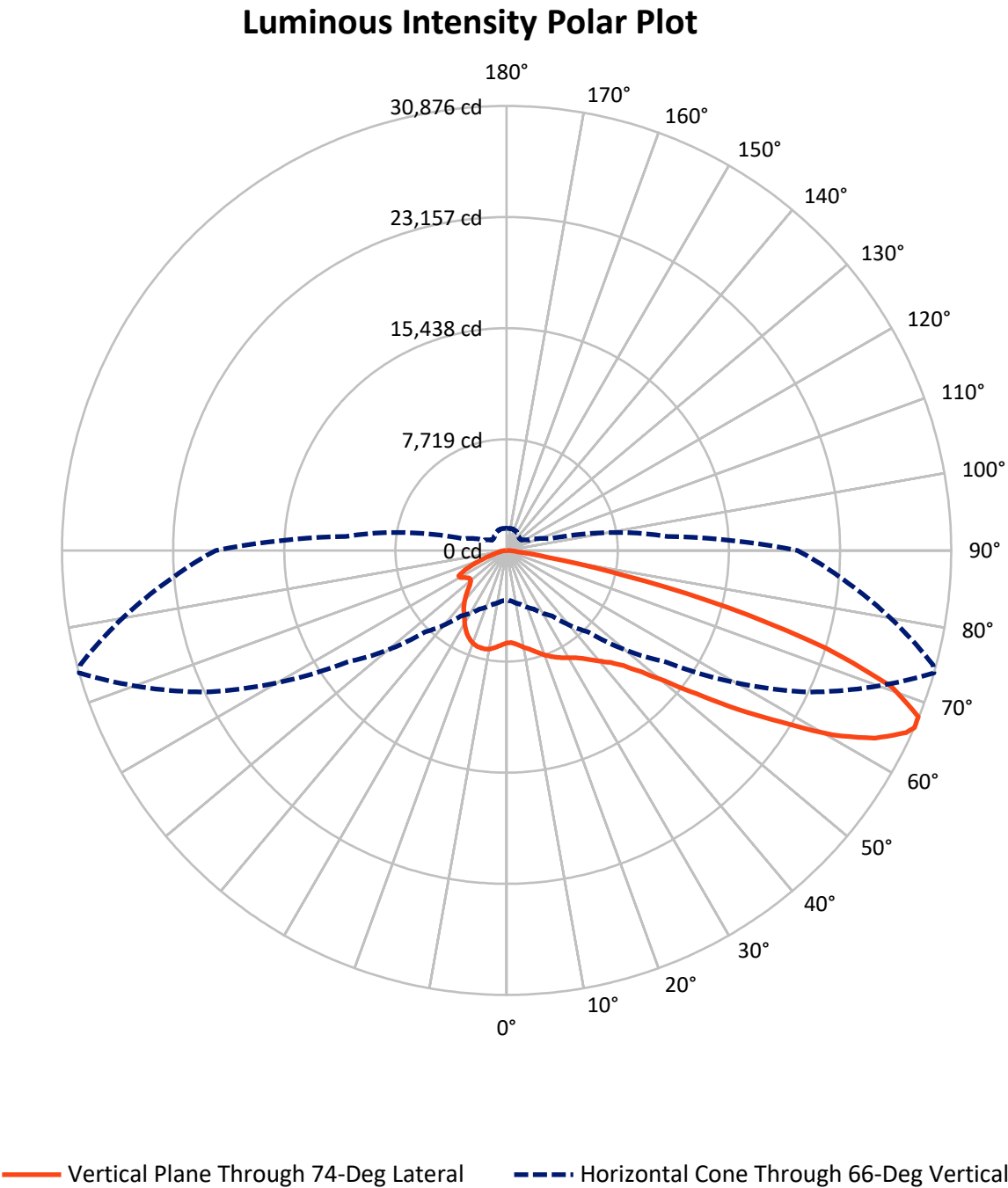
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P1211513
CATALOG NUMBER: ARCH4-300-727-U-T2RE



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9530.9	0.0	9530.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	29606.1	0.0	29606.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	39137.0	0.0	39137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.0	1.6
10°-20°	1882.1	4.8
20°-30°	3531.7	9.0
30°-40°	5432.6	13.9
40°-50°	7307.4	18.7
50°-60°	8641.8	22.1
60°-70°	7994.1	20.4
70°-80°	3363.1	8.6
80°-90°	372.1	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°	39137.0	100.0
0°-180°	39137.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211513

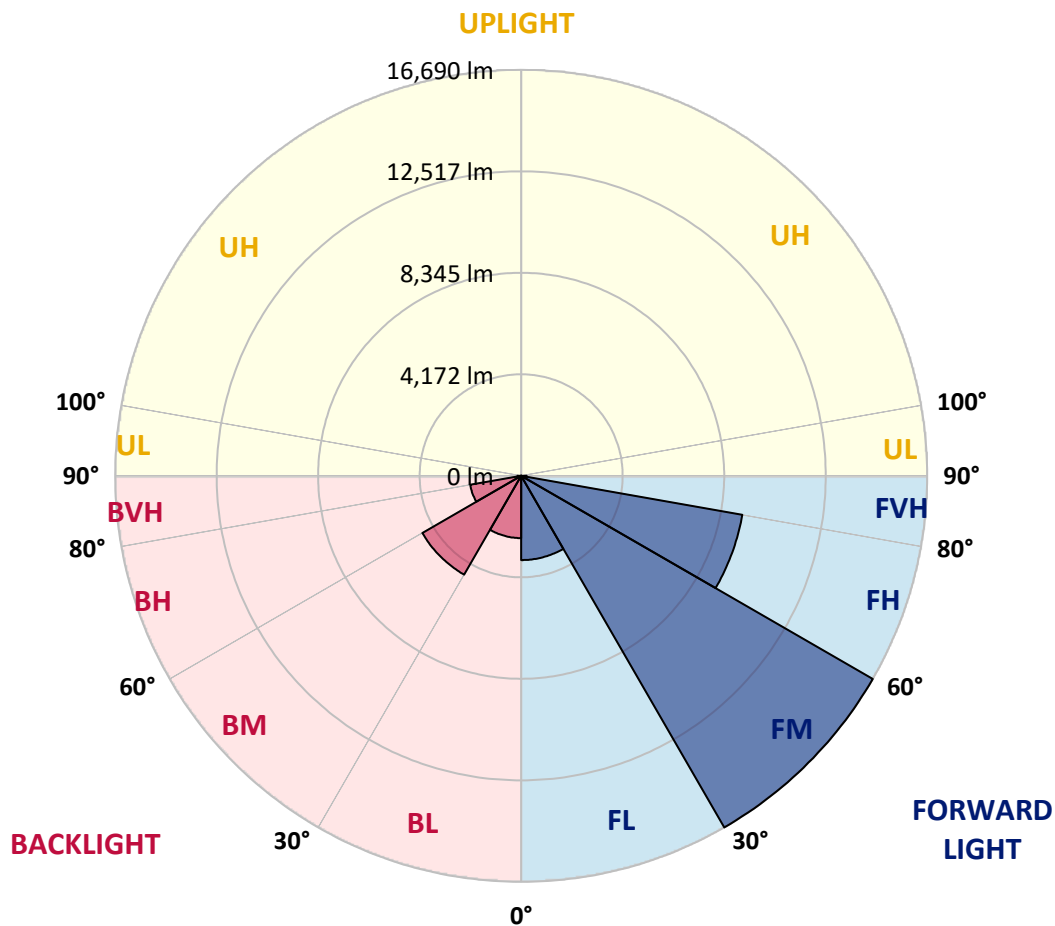
CATALOG NUMBER: ARCH4-300-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3464.1	8.9			
FM	(30°-60°)	16689.7	42.6			
FH	(60°-80°)	9229.6	23.6			G4/12000
FVH	(80°-90°)	222.6	0.6			G2/225
BL	(0°-30°)	2561.7	6.5	B4/5000		
BM	(30°-60°)	4692.1	12.0	B3/5000		
BH	(60°-80°)	2127.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	149.5	0.4			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 Short



REPORT NUMBER: P1211513

CATALOG NUMBER: ARCH4-300-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9
2.5°	6395.7	6385.6	6405.8	6436.0	6451.1	6425.9	6415.9	6410.8	6410.8	6395.7	6420.9
5°	6093.6	6088.5	6133.8	6189.2	6295.0	6370.5	6471.3	6531.7	6511.5	6481.3	6501.5
7.5°	5700.7	5690.7	5746.1	5851.8	5997.9	6164.1	6410.8	6602.2	6677.7	6667.7	6662.6
10°	5851.8	5841.8	5836.7	5806.5	5856.9	6018.0	6274.8	6612.3	6869.1	6874.1	6879.2
12.5°	6375.6	6400.7	6375.6	6279.9	6169.1	6108.7	6259.7	6637.4	7030.2	7060.5	7186.4
15°	7090.7	7065.5	7015.1	6904.3	6733.1	6551.8	6441.0	6753.3	7261.9	7287.1	7564.1
17.5°	7720.2	7740.3	7710.1	7604.3	7402.9	7166.2	6828.8	6954.7	7508.7	7579.2	7966.9
20°	8405.1	8485.6	8445.4	8314.4	8148.2	7795.7	7372.7	7246.8	7780.6	7831.0	8384.9
22.5°	9195.7	9281.3	9205.8	9079.9	8943.9	8510.8	7966.9	7604.3	8007.2	8113.0	8787.8
25°	10142.5	10223.1	10152.6	9956.2	9784.9	9256.2	8606.5	8007.2	8228.8	8344.6	9115.1
27.5°	10892.9	10953.3	11018.8	10902.9	10641.1	10092.1	9271.3	8425.2	8450.4	8571.3	9417.3
30°	11562.6	11713.7	11769.1	11784.2	11562.6	10948.2	9951.1	8858.3	8641.8	8767.7	9719.5
32.5°	12479.2	12705.8	12615.2	12705.8	12574.9	11754.0	10656.2	9306.5	8888.5	9004.4	10006.5
35°	13818.8	14000.1	13763.4	13692.9	13481.4	12569.8	11336.0	9769.8	9215.9	9341.8	10278.5
37.5°	15259.1	15465.5	15123.1	14841.1	14438.2	13375.6	11920.2	10379.2	9669.1	9769.8	10530.3
40°	16518.1	16689.3	16392.2	16019.5	15344.7	14085.7	12423.8	10807.2	10122.3	10248.2	10822.3
42.5°	17681.4	17792.2	17459.8	17102.2	16200.8	14725.2	12967.7	11260.5	10651.1	10772.0	11059.0
45°	18859.8	18945.4	18482.1	17973.5	16915.9	15309.4	13567.0	11895.0	11426.7	11587.8	11441.8
47.5°	19071.3	19096.5	19015.9	18673.5	17479.9	15868.4	14307.3	12746.1	12610.1	12786.4	12101.5
50°	17605.8	17832.5	18331.0	18668.4	17706.6	16336.8	15047.5	13964.8	14241.8	14468.4	13471.3
52.5°	14760.5	14977.0	16130.3	17409.4	17162.7	16442.5	15843.2	15510.9	16543.2	16815.2	15334.6
55°	11759.0	11950.4	13169.1	15012.3	15405.1	15959.1	16694.3	17485.0	19479.2	19660.5	17379.2
57.5°	9684.2	9790.0	10661.2	12433.9	13063.4	14413.0	17152.6	19831.7	22465.6	22742.5	19156.9
60°	7941.8	8057.6	8707.2	10167.7	11003.6	12202.2	16790.0	22148.3	26031.0	26031.0	21438.2
62.5°	5977.7	6078.4	6682.8	7825.9	9231.0	10328.8	15631.7	23684.3	28720.3	28599.4	23090.0
65°	4104.3	4184.9	4623.0	5383.5	6647.5	8802.9	14050.4	23704.4	30503.0	30341.9	23795.1
66°	3444.6	3515.1	3887.8	4502.2	5564.8	7987.1	13491.4	23276.4	30875.7	30649.1	23497.9
67.5°	2719.4	2769.8	3016.6	3379.2	4079.2	6466.2	12610.1	22062.7	30840.4	30704.5	22742.5
70°	1943.9	1979.1	2160.4	2236.0	2412.2	3741.7	10016.6	19323.1	28367.8	28408.0	19771.3
72.5°	1505.8	1561.2	1671.9	1687.1	1646.8	1989.2	6078.4	16120.2	23205.9	23190.7	14674.9
75°	1213.7	1243.9	1299.3	1329.5	1319.4	1284.2	2573.4	12026.0	15974.2	16160.5	8218.7
77.5°	956.8	951.8	1002.2	1042.5	1072.7	1007.2	1178.4	7050.4	8374.9	8138.2	3087.1
80°	705.0	705.0	775.5	790.7	836.0	846.0	785.6	2719.4	2875.6	2613.7	800.7
82.5°	463.3	463.3	538.9	548.9	594.2	659.7	569.1	815.8	795.7	755.4	362.6
85°	251.8	241.7	266.9	302.2	327.3	387.8	342.4	407.9	418.0	413.0	241.7
87.5°	50.4	45.3	70.5	80.6	90.6	120.9	110.8	166.2	231.7	226.6	105.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211513

CATALOG NUMBER: ARCH4-300-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9	6415.9
2.5°	6456.1	6451.1	6506.5	6572.0	6647.5	6692.8	6713.0	6748.2	6723.1	6733.1	6763.3
5°	6551.8	6566.9	6647.5	6733.1	6768.4	6743.2	6687.8	6667.7	6622.3	6612.3	6602.2
7.5°	6692.8	6718.0	6798.6	6818.7	6713.0	6536.7	6410.8	6340.3	6264.8	6244.6	6234.6
10°	6924.5	6939.6	6959.7	6753.3	6491.4	6254.7	6098.6	6033.1	5982.8	5942.5	5952.5
12.5°	7216.6	7206.5	7050.4	6622.3	6249.7	6007.9	5902.2	5861.9	5826.6	5801.5	5796.4
15°	7584.2	7513.7	7065.5	6441.0	6023.0	5821.6	5746.1	5731.0	5690.7	5690.7	5685.6
17.5°	7956.9	7775.6	7055.4	6249.7	5806.5	5695.7	5650.4	5640.3	5630.2	5625.2	5640.3
20°	8329.5	8007.2	6974.9	6013.0	5655.4	5590.0	5579.9	5584.9	5574.8	5590.0	5579.9
22.5°	8656.9	8158.3	6823.8	5761.2	5549.7	5544.6	5519.4	5529.5	5564.8	5569.8	5584.9
25°	8908.7	8213.7	6602.2	5529.5	5474.1	5464.1	5494.3	5534.6	5564.8	5569.8	5595.0
27.5°	9115.1	8183.5	6325.2	5348.2	5343.2	5398.6	5489.2	5504.3	5509.4	5509.4	5489.2
30°	9271.3	8118.0	5972.7	5146.8	5172.0	5307.9	5393.5	5393.5	5353.3	5343.2	5373.4
32.5°	9306.5	8032.4	5590.0	4940.3	4980.6	5141.7	5247.5	5212.3	5166.9	5166.9	5187.1
35°	9336.7	7916.6	5282.8	4658.3	4718.7	4910.1	5010.8	4940.3	4889.9	4874.8	4869.8
37.5°	9326.7	7871.3	5005.8	4300.7	4381.3	4567.6	4633.1	4567.6	4492.1	4456.9	4502.2
40°	9336.7	7841.0	4658.3	3907.9	3988.5	4099.3	4184.9	4134.6	4064.0	3973.4	4018.7
42.5°	9397.2	7881.3	4275.6	3525.2	3525.2	3585.6	3731.7	3696.4	3525.2	3489.9	3530.2
45°	9719.5	8097.9	3892.8	3142.5	3087.1	3127.4	3278.4	3127.4	3021.6	3021.6	3056.8
47.5°	10500.0	8500.8	3555.4	2805.0	2674.1	2754.7	2795.0	2654.0	2573.4	2553.2	2588.5
50°	12091.4	9306.5	3354.0	2528.1	2366.9	2427.3	2402.2	2397.1	2316.6	2326.6	2346.8
52.5°	14508.7	10877.7	3293.5	2392.1	2190.7	2205.8	2180.6	2190.7	2175.5	2225.9	2241.0
55°	17142.5	12534.6	3369.1	2412.2	2069.8	1964.0	1974.1	2024.5	2084.9	2165.5	2180.6
57.5°	19111.6	13365.5	3565.5	2548.2	1918.7	1757.6	1782.7	1878.4	1994.3	2059.7	2095.0
60°	20577.1	13264.8	3852.5	2583.5	1737.4	1571.2	1616.6	1757.6	1858.3	1913.7	1948.9
62.5°	21055.5	12635.3	3923.0	2326.6	1500.7	1395.0	1505.8	1651.8	1697.1	1757.6	1782.7
65°	20662.7	11743.9	3409.4	1888.5	1319.4	1264.0	1425.2	1536.0	1596.4	1626.6	1631.7
66°	20199.4	11210.1	3132.4	1717.3	1254.0	1223.7	1395.0	1485.6	1546.0	1541.0	1546.0
67.5°	19182.1	10092.1	2684.2	1475.5	1158.3	1163.3	1344.6	1405.0	1425.2	1410.1	1410.1
70°	15722.4	7105.8	1923.7	1118.0	1017.3	1087.8	1208.6	1223.7	1269.1	1248.9	1248.9
72.5°	9694.3	3489.9	1289.2	856.1	906.5	1017.3	1012.2	1062.6	1168.4	1198.6	1218.7
75°	4764.0	1415.1	851.1	725.2	810.8	851.1	841.0	966.9	1118.0	1248.9	1294.3
77.5°	1807.9	705.0	594.2	634.5	654.7	639.6	669.8	876.3	1118.0	1354.7	1400.0
80°	559.0	488.5	468.3	523.7	493.5	468.3	503.6	725.2	946.8	1027.3	1027.3
82.5°	337.4	382.7	362.6	357.6	332.4	337.4	362.6	518.7	730.2	765.5	765.5
85°	236.7	251.8	206.5	196.4	191.4	186.3	186.3	302.2	433.1	428.1	443.2
87.5°	90.6	100.7	75.5	75.5	70.5	50.4	40.3	50.4	50.4	35.3	25.2
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)