

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: P1211529

Luminaire Tested: **ARCH4-300-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211529
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: ARCH4-300-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42584 lumens
Efficiency: N/A
Efficacy: 142.3 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

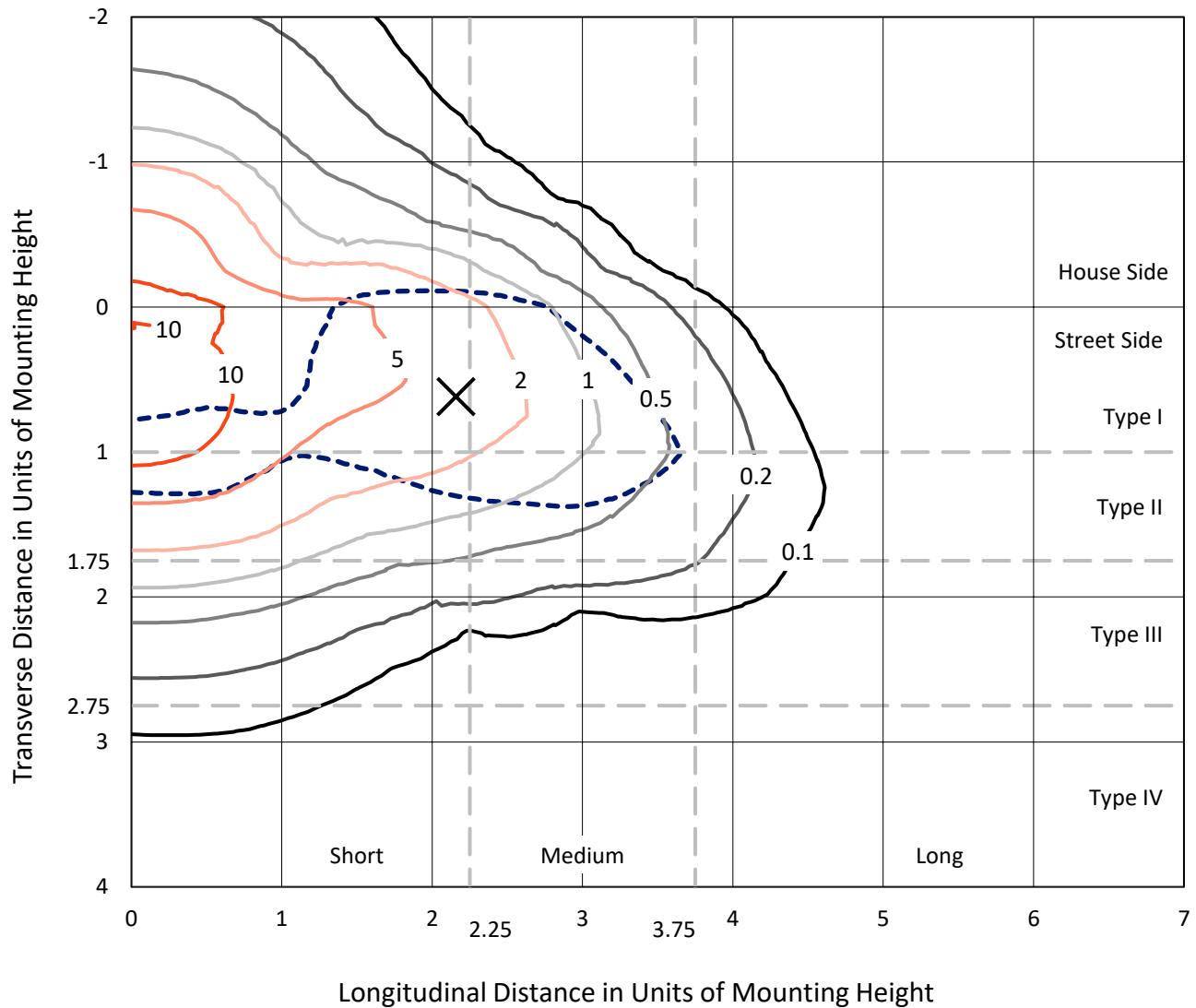


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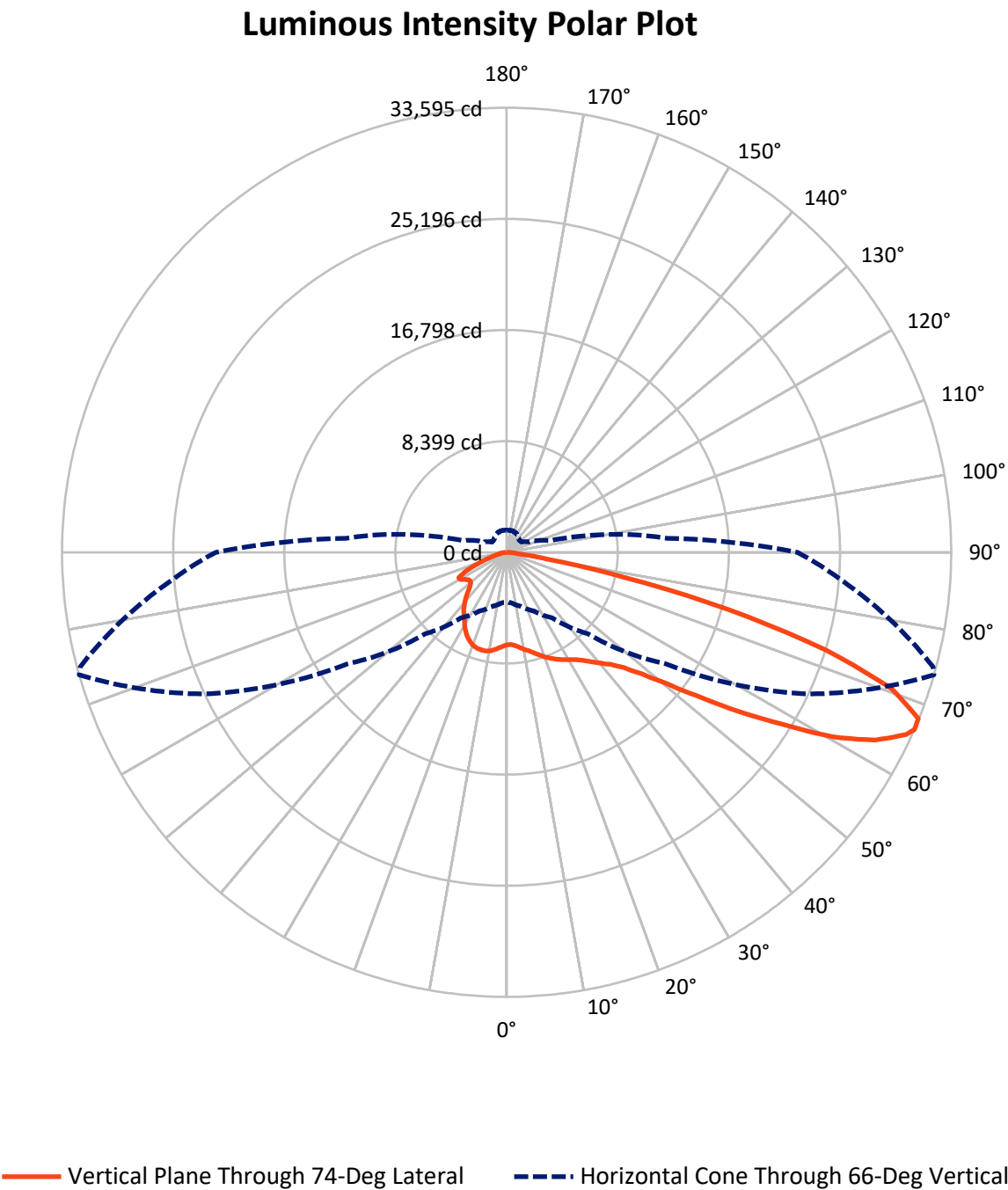
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10370.4	0.0	10370.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	32213.6	0.0	32213.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	42584.0	0.0	42584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.9	1.6
10°-20°	2047.8	4.8
20°-30°	3842.8	9.0
30°-40°	5911.1	13.9
40°-50°	7951.0	18.7
50°-60°	9403.0	22.1
60°-70°	8698.2	20.4
70°-80°	3659.3	8.6
80°-90°	404.9	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°	42584.0	100.0
0°-180°	42584.0	100.0

Coefficient of Utilization



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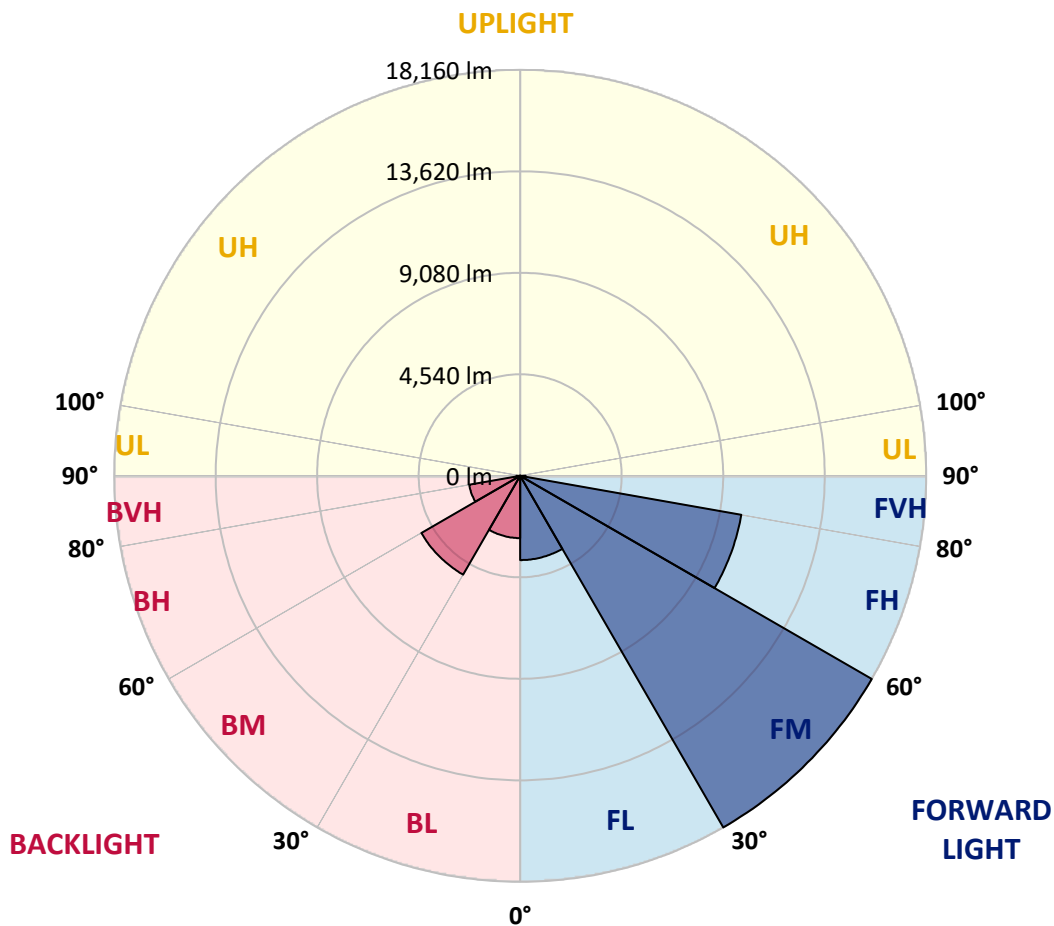
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3769.2	8.9			
FM	(30°-60°)	18159.7	42.6			
FH	(60°-80°)	10042.5	23.6			G4/12000
FVH	(80°-90°)	242.3	0.6			G3/500
BL	(0°-30°)	2787.3	6.5	B4/5000		
BM	(30°-60°)	5105.3	12.0	B4/8500		
BH	(60°-80°)	2315.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	162.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9
2.5°	6959.0	6948.1	6970.0	7002.9	7019.3	6991.9	6980.9	6975.5	6975.5	6959.0	6986.4
5°	6630.2	6624.8	6674.1	6734.4	6849.4	6931.6	7041.2	7107.0	7085.0	7052.2	7074.1
7.5°	6202.8	6191.9	6252.2	6367.2	6526.1	6707.0	6975.5	7183.7	7265.9	7254.9	7249.4
10°	6367.2	6356.3	6350.8	6317.9	6372.7	6548.0	6827.5	7194.6	7474.1	7479.6	7485.1
12.5°	6937.1	6964.5	6937.1	6833.0	6712.4	6646.7	6811.1	7222.0	7649.4	7682.3	7819.3
15°	7715.2	7687.8	7633.0	7512.4	7326.1	7128.9	7008.3	7348.1	7901.5	7928.9	8230.3
17.5°	8400.1	8422.1	8389.2	8274.1	8054.9	7797.4	7430.3	7567.2	8170.0	8246.7	8668.6
20°	9145.4	9233.0	9189.2	9046.7	8865.9	8482.3	8022.0	7885.1	8465.9	8520.7	9123.4
22.5°	10005.6	10098.8	10016.6	9879.6	9731.7	9260.4	8668.6	8274.1	8712.5	8827.5	9561.8
25°	11035.8	11123.5	11046.8	10833.0	10646.7	10071.4	9364.5	8712.5	8953.6	9079.6	9918.0
27.5°	11852.2	11918.0	11989.2	11863.2	11578.3	10981.0	10087.8	9167.3	9194.7	9326.2	10246.7
30°	12581.0	12745.4	12805.7	12822.1	12581.0	11912.5	10827.6	9638.5	9402.9	9539.9	10575.5
32.5°	13578.3	13824.9	13726.2	13824.9	13682.4	12789.2	11594.7	10126.2	9671.4	9797.4	10887.8
35°	15035.9	15233.1	14975.6	14898.9	14668.7	13676.9	12334.4	10630.3	10027.6	10164.5	11183.7
37.5°	16603.0	16827.7	16455.1	16148.2	15709.8	14553.7	12970.1	11293.3	10520.7	10630.3	11457.7
40°	17972.9	18159.2	17835.9	17430.4	16696.2	15326.3	13518.0	11759.1	11013.9	11150.9	11775.5
42.5°	19238.7	19359.2	18997.6	18608.5	17627.7	16022.2	14109.8	12252.3	11589.2	11720.7	12033.1
45°	20520.9	20614.0	20109.9	19556.5	18405.8	16657.8	14761.9	12942.7	12433.1	12608.4	12449.5
47.5°	20751.0	20778.4	20690.7	20318.1	19019.5	17266.0	15567.4	13868.7	13720.8	13912.6	13167.3
50°	19156.5	19403.0	19945.5	20312.7	19266.1	17775.6	16372.9	15194.8	15496.1	15742.7	14657.8
52.5°	16060.5	16296.2	17551.0	18942.8	18674.3	17890.7	17238.6	16877.0	18000.3	18296.2	16685.2
55°	12794.7	13002.9	14329.0	16334.5	16761.9	17364.7	18164.7	19025.0	21194.9	21392.1	18909.9
57.5°	10537.2	10652.2	11600.2	13529.0	14213.9	15682.4	18663.3	21578.4	24444.2	24745.6	20844.2
60°	8641.2	8767.3	9474.1	11063.2	11972.8	13276.9	18268.8	24099.0	28323.7	28323.7	23326.4
62.5°	6504.2	6613.8	7271.3	8515.2	10044.0	11238.5	17008.5	25770.3	31249.8	31118.3	25123.7
65°	4465.8	4553.5	5030.2	5857.6	7233.0	9578.2	15287.9	25792.2	33189.6	33014.2	25890.8
66°	3748.0	3824.7	4230.2	4898.7	6054.9	8690.5	14679.7	25326.4	33595.1	33348.5	25567.5
67.5°	2959.0	3013.7	3282.2	3676.8	4438.4	7035.7	13720.8	24005.9	33556.7	33408.8	24745.6
70°	2115.1	2153.5	2350.7	2432.9	2624.7	4071.3	10898.8	21025.0	30866.2	30910.1	21512.7
72.5°	1638.4	1698.7	1819.2	1835.6	1791.8	2164.4	6613.8	17540.0	25249.7	25233.3	15967.4
75°	1320.6	1353.4	1413.7	1446.6	1435.6	1397.3	2800.0	13085.1	17381.1	17583.8	8942.6
77.5°	1041.1	1035.6	1090.4	1134.3	1167.1	1095.9	1282.2	7671.4	9112.5	8854.9	3359.0
80°	767.1	767.1	843.8	860.3	909.6	920.6	854.8	2959.0	3128.8	2843.9	871.2
82.5°	504.1	504.1	586.3	597.3	646.6	717.8	619.2	887.7	865.8	821.9	394.5
85°	274.0	263.0	290.4	328.8	356.2	421.9	372.6	443.8	454.8	449.3	263.0
87.5°	54.8	49.3	76.7	87.7	98.6	131.5	120.5	180.8	252.1	246.6	115.1
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°	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9	6980.9
2.5°	7024.8	7019.3	7079.6	7150.8	7233.0	7282.3	7304.2	7342.6	7315.2	7326.1	7359.0
5°	7128.9	7145.3	7233.0	7326.1	7364.5	7337.1	7276.8	7254.9	7205.6	7194.6	7183.7
7.5°	7282.3	7309.7	7397.4	7419.3	7304.2	7112.4	6975.5	6898.7	6816.5	6794.6	6783.7
10°	7534.4	7550.8	7572.7	7348.1	7063.1	6805.6	6635.7	6564.5	6509.7	6465.9	6476.8
12.5°	7852.2	7841.2	7671.4	7205.6	6800.1	6537.1	6422.0	6378.2	6339.8	6312.4	6307.0
15°	8252.2	8175.5	7687.8	7008.3	6553.5	6334.3	6252.2	6235.7	6191.9	6191.9	6186.4
17.5°	8657.7	8460.4	7676.8	6800.1	6317.9	6197.4	6148.0	6137.1	6126.1	6120.6	6137.1
20°	9063.2	8712.5	7589.2	6542.6	6153.5	6082.3	6071.3	6076.8	6065.9	6082.3	6071.3
22.5°	9419.3	8876.9	7424.8	6268.6	6038.5	6033.0	6005.6	6016.5	6054.9	6060.4	6076.8
25°	9693.3	8937.1	7183.7	6016.5	5956.3	5945.3	5978.2	6022.0	6054.9	6060.4	6087.8
27.5°	9918.0	8904.3	6882.3	5819.3	5813.8	5874.1	5972.7	5989.1	5994.6	5994.6	5972.7
30°	10087.8	8833.0	6498.7	5600.1	5627.5	5775.4	5868.6	5868.6	5824.8	5813.8	5846.7
32.5°	10126.2	8739.9	6082.3	5375.4	5419.3	5594.6	5709.7	5671.3	5622.0	5622.0	5643.9
35°	10159.1	8613.8	5748.0	5068.6	5134.3	5342.6	5452.1	5375.4	5320.6	5304.2	5298.7
37.5°	10148.1	8564.5	5446.7	4679.5	4767.2	4969.9	5041.2	4969.9	4887.7	4849.4	4898.7
40°	10159.1	8531.6	5068.6	4252.1	4339.8	4460.3	4553.5	4498.7	4422.0	4323.4	4372.7
42.5°	10224.8	8575.5	4652.1	3835.7	3835.7	3901.4	4060.3	4022.0	3835.7	3797.3	3841.2
45°	10575.5	8811.1	4235.7	3419.2	3359.0	3402.8	3567.2	3402.8	3287.7	3287.7	3326.1
47.5°	11424.8	9249.5	3868.6	3052.1	2909.6	2997.3	3041.1	2887.7	2800.0	2778.1	2816.5
50°	13156.4	10126.2	3649.4	2750.7	2575.4	2641.1	2613.7	2608.3	2520.6	2531.5	2553.5
52.5°	15786.6	11835.8	3583.6	2602.8	2383.6	2400.0	2372.6	2383.6	2367.2	2422.0	2438.4
55°	18652.4	13638.6	3665.8	2624.7	2252.1	2137.0	2148.0	2202.8	2268.5	2356.2	2372.6
57.5°	20794.9	14542.7	3879.5	2772.6	2087.7	1912.4	1939.8	2043.9	2169.9	2241.1	2279.5
60°	22389.4	14433.1	4191.8	2811.0	1890.4	1709.6	1758.9	1912.4	2022.0	2082.2	2120.6
62.5°	22910.0	13748.2	4268.6	2531.5	1632.9	1517.8	1638.4	1797.3	1846.6	1912.4	1939.8
65°	22482.6	12778.3	3709.6	2054.8	1435.6	1375.4	1550.7	1671.3	1737.0	1769.9	1775.4
66°	21978.4	12197.5	3408.3	1868.5	1364.4	1331.5	1517.8	1616.5	1682.2	1676.7	1682.2
67.5°	20871.6	10981.0	2920.6	1605.5	1260.3	1265.8	1463.0	1528.8	1550.7	1534.3	1534.3
70°	17107.1	7731.6	2093.2	1216.5	1106.9	1183.6	1315.1	1331.5	1380.8	1358.9	1358.9
72.5°	10548.1	3797.3	1402.8	931.5	986.3	1106.9	1101.4	1156.2	1271.3	1304.1	1326.0
75°	5183.6	1539.8	926.0	789.1	882.2	926.0	915.1	1052.1	1216.5	1358.9	1408.2
77.5°	1967.2	767.1	646.6	690.4	712.3	695.9	728.8	953.4	1216.5	1474.0	1523.3
80°	608.2	531.5	509.6	569.9	537.0	509.6	548.0	789.1	1030.2	1117.8	1117.8
82.5°	367.1	416.4	394.5	389.0	361.6	367.1	394.5	564.4	794.5	832.9	832.9
85°	257.5	274.0	224.7	213.7	208.2	202.7	202.7	328.8	471.2	465.8	482.2
87.5°	98.6	109.6	82.2	82.2	76.7	54.8	43.8	54.8	54.8	38.4	27.4
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)