

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: P1211497

Luminaire Tested: **ARCH4-290-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211497
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: ARCH4-290-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41659 lumens
Efficiency: N/A
Efficacy: 143.8 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): 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



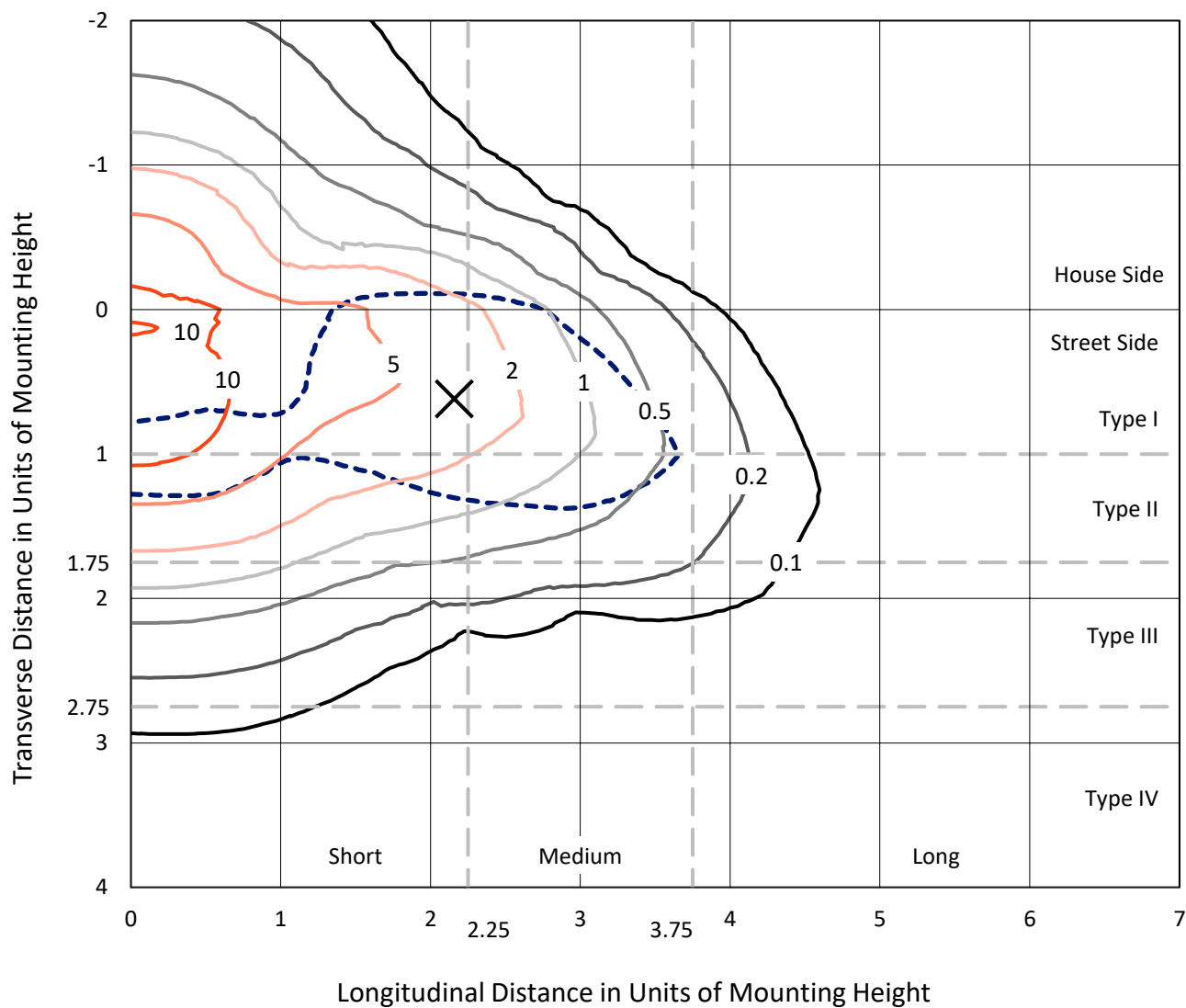
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

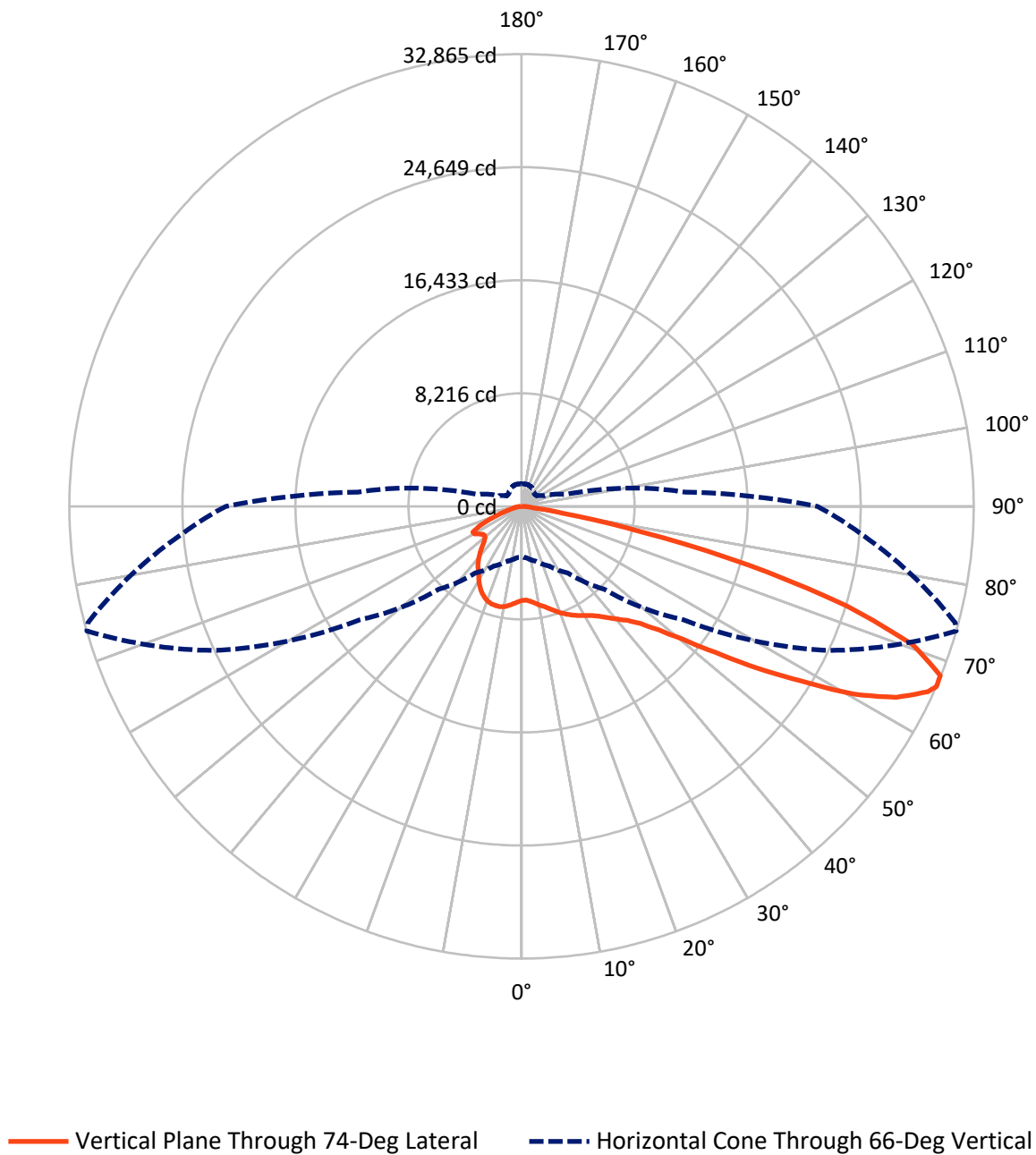


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10145.1	0.0	10145.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	31513.9	0.0	31513.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	41659.0	0.0	41659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.4	1.6
10°-20°	2003.3	4.8
20°-30°	3759.3	9.0
30°-40°	5782.7	13.9
40°-50°	7778.2	18.7
50°-60°	9198.7	22.1
60°-70°	8509.3	20.4
70°-80°	3579.8	8.6
80°-90°	396.1	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°	41659.0	100.0
0°-180°	41659.0	100.0

Coefficient of Utilization



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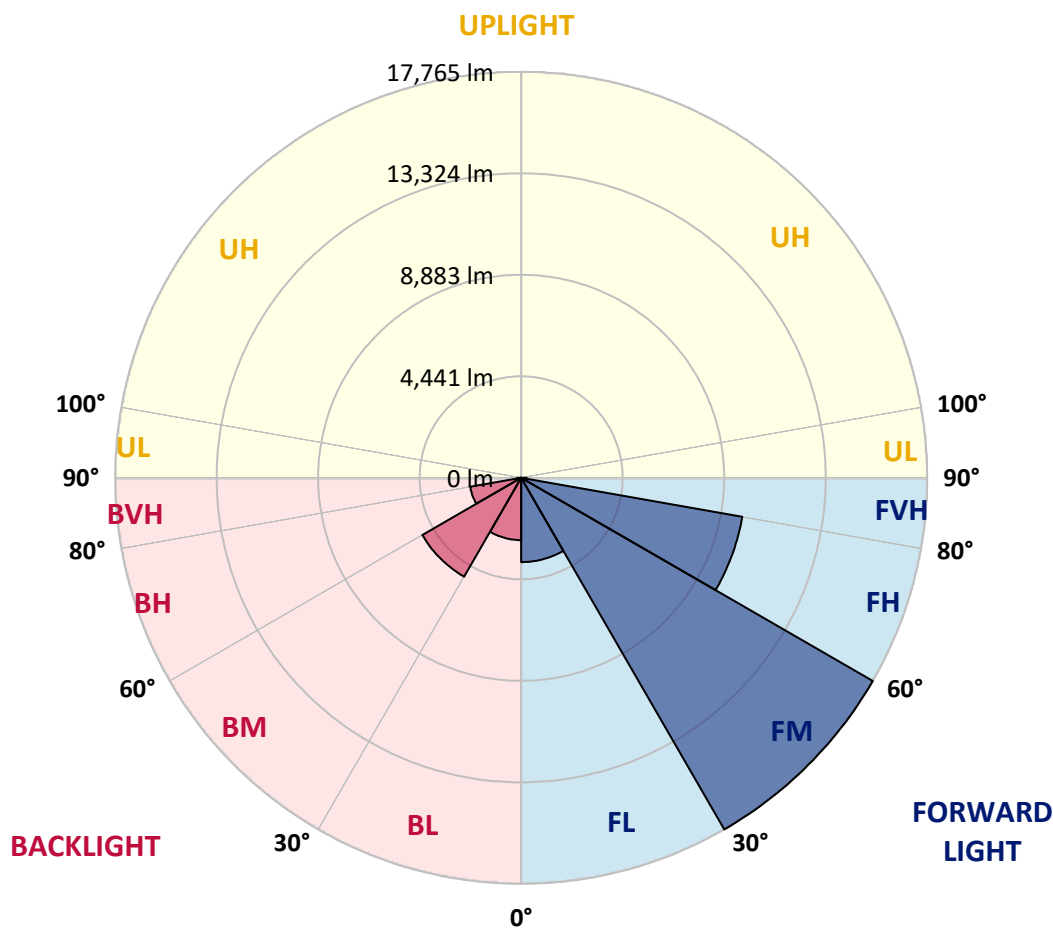
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3687.3	8.9			
FM	(30°-60°)	17765.2	42.6			
FH	(60°-80°)	9824.4	23.6			G4/12000
FVH	(80°-90°)	237.0	0.6			G3/500
BL	(0°-30°)	2726.8	6.5	B4/5000		
BM	(30°-60°)	4994.4	12.0	B3/5000		
BH	(60°-80°)	2264.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	159.1	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°	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3
2.5°	6807.9	6797.1	6818.6	6850.7	6866.8	6840.0	6829.3	6823.9	6823.9	6807.9	6834.7
5°	6486.2	6480.9	6529.1	6588.1	6700.6	6781.1	6888.3	6952.6	6931.1	6899.0	6920.4
7.5°	6068.1	6057.4	6116.3	6228.9	6384.4	6561.3	6823.9	7027.6	7108.0	7097.3	7092.0
10°	6228.9	6218.2	6212.8	6180.7	6234.3	6405.8	6679.2	7038.4	7311.7	7317.1	7322.5
12.5°	6786.4	6813.2	6786.4	6684.6	6566.6	6502.3	6663.1	7065.2	7483.3	7515.4	7649.5
15°	7547.6	7520.8	7467.2	7349.3	7167.0	6974.0	6856.1	7188.4	7729.9	7756.7	8051.5
17.5°	8217.7	8239.1	8206.9	8094.4	7880.0	7628.0	7268.9	7402.9	7992.5	8067.6	8480.3
20°	8946.7	9032.5	8989.6	8850.2	8673.3	8298.1	7847.8	7713.8	8282.0	8335.6	8925.3
22.5°	9788.3	9879.4	9799.0	9665.0	9520.3	9059.3	8480.3	8094.4	8523.2	8635.8	9354.1
25°	10796.1	10881.8	10806.8	10597.7	10415.5	9852.6	9161.1	8523.2	8759.1	8882.4	9702.5
27.5°	11594.8	11659.1	11728.8	11605.5	11326.8	10742.5	9868.7	8968.1	8994.9	9123.6	10024.2
30°	12307.7	12468.6	12527.5	12543.6	12307.7	11653.8	10592.4	9429.1	9198.6	9332.7	10345.8
32.5°	13283.4	13524.6	13428.1	13524.6	13385.2	12511.4	11342.8	9906.2	9461.3	9584.6	10651.3
35°	14709.3	14902.2	14650.3	14575.2	14350.1	13379.8	12066.5	10399.4	9809.7	9943.8	10940.8
37.5°	16242.4	16462.1	16097.6	15797.4	15368.6	14237.5	12688.3	11048.0	10292.2	10399.4	11208.8
40°	17582.5	17764.7	17448.5	17051.8	16333.5	14993.4	13224.4	11503.7	10774.6	10908.6	11519.7
42.5°	18820.8	18938.7	18584.9	18204.3	17244.8	15674.1	13803.3	11986.1	11337.5	11466.1	11771.7
45°	20075.1	20166.3	19673.1	19131.7	18006.0	16296.0	14441.2	12661.5	12163.0	12334.5	12179.1
47.5°	20300.3	20327.1	20241.3	19876.8	18606.3	16891.0	15229.2	13567.5	13422.7	13610.3	12881.3
50°	18740.4	18981.6	19512.3	19871.4	18847.6	17389.5	16017.2	14864.7	15159.5	15400.8	14339.4
52.5°	15711.7	15942.2	17169.7	18531.3	18268.6	17502.1	16864.2	16510.4	17609.3	17898.8	16322.8
55°	12516.8	12720.5	14017.7	15979.7	16397.8	16987.5	17770.1	18611.7	20734.5	20927.4	18499.1
57.5°	10308.3	10420.8	11348.2	13235.1	13905.2	15341.8	18257.9	21109.7	23913.3	24208.1	20391.4
60°	8453.5	8576.8	9268.3	10822.9	11712.7	12988.5	17872.0	23575.5	27708.5	27708.5	22819.7
62.5°	6362.9	6470.1	7113.4	8330.2	9825.8	10994.4	16639.0	25210.5	30571.0	30442.4	24578.0
65°	4368.8	4454.6	4921.0	5730.4	7075.9	9370.2	14955.8	25231.9	32468.6	32297.1	25328.4
66°	3666.6	3741.6	4138.3	4792.3	5923.4	8501.8	14360.8	24776.3	32865.3	32624.1	25012.2
67.5°	2894.7	2948.3	3210.9	3596.9	4342.0	6882.9	13422.7	23484.4	32827.8	32683.1	24208.1
70°	2069.2	2106.7	2299.7	2380.1	2567.7	3982.9	10662.1	20568.3	30195.8	30238.7	21045.4
72.5°	1602.8	1661.8	1779.7	1795.8	1752.9	2117.4	6470.1	17159.0	24701.2	24685.2	15620.5
75°	1291.9	1324.0	1383.0	1415.2	1404.5	1366.9	2739.2	12800.9	17003.6	17201.9	8748.4
77.5°	1018.5	1013.1	1066.7	1109.6	1141.8	1072.1	1254.4	7504.7	8914.5	8662.6	3286.0
80°	750.5	750.5	825.5	841.6	889.8	900.6	836.2	2894.7	3060.9	2782.1	852.3
82.5°	493.2	493.2	573.6	584.3	632.5	702.2	605.7	868.4	847.0	804.1	386.0
85°	268.0	257.3	284.1	321.6	348.4	412.8	364.5	434.2	444.9	439.6	257.3
87.5°	53.6	48.2	75.0	85.8	96.5	128.7	117.9	176.9	246.6	241.2	112.6
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°	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3	6829.3
2.5°	6872.2	6866.8	6925.8	6995.5	7075.9	7124.1	7145.6	7183.1	7156.3	7167.0	7199.2
5°	6974.0	6990.1	7075.9	7167.0	7204.5	7177.7	7118.8	7097.3	7049.1	7038.4	7027.6
7.5°	7124.1	7150.9	7236.7	7258.1	7145.6	6957.9	6823.9	6748.9	6668.5	6647.0	6636.3
10°	7370.7	7386.8	7408.2	7188.4	6909.7	6657.8	6491.6	6421.9	6368.3	6325.4	6336.1
12.5°	7681.6	7670.9	7504.7	7049.1	6652.4	6395.1	6282.5	6239.6	6202.1	6175.3	6170.0
15°	8072.9	7997.9	7520.8	6856.1	6411.2	6196.8	6116.3	6100.3	6057.4	6057.4	6052.0
17.5°	8469.6	8276.6	7510.1	6652.4	6180.7	6062.7	6014.5	6003.8	5993.1	5987.7	6003.8
20°	8866.3	8523.2	7424.3	6400.5	6019.9	5950.2	5939.4	5944.8	5934.1	5950.2	5939.4
22.5°	9214.7	8684.0	7263.5	6132.4	5907.3	5901.9	5875.1	5885.8	5923.4	5928.7	5944.8
25°	9482.7	8743.0	7027.6	5885.8	5826.9	5816.2	5848.3	5891.2	5923.4	5928.7	5955.5
27.5°	9702.5	8710.8	6732.8	5692.9	5687.5	5746.5	5843.0	5859.0	5864.4	5864.4	5843.0
30°	9868.7	8641.1	6357.6	5478.4	5505.2	5650.0	5741.1	5741.1	5698.2	5687.5	5719.7
32.5°	9906.2	8550.0	5950.2	5258.7	5301.5	5473.1	5585.7	5548.1	5499.9	5499.9	5521.3
35°	9938.4	8426.7	5623.2	4958.5	5022.8	5226.5	5333.7	5258.7	5205.1	5189.0	5183.6
37.5°	9927.7	8378.5	5328.4	4577.9	4663.6	4862.0	4931.7	4862.0	4781.6	4744.1	4792.3
40°	9938.4	8346.3	4958.5	4159.8	4245.5	4363.5	4454.6	4401.0	4325.9	4229.4	4277.7
42.5°	10002.7	8389.2	4551.1	3752.4	3752.4	3816.7	3972.1	3934.6	3752.4	3714.8	3757.7
45°	10345.8	8619.7	4143.7	3345.0	3286.0	3328.9	3489.7	3328.9	3216.3	3216.3	3253.8
47.5°	11176.7	9048.5	3784.5	2985.8	2846.4	2932.2	2975.1	2825.0	2739.2	2717.8	2755.3
50°	12870.6	9906.2	3570.1	2691.0	2519.4	2583.8	2557.0	2551.6	2465.8	2476.6	2498.0
52.5°	15443.6	11578.7	3505.8	2546.2	2331.8	2347.9	2321.1	2331.8	2315.7	2369.3	2385.4
55°	18247.2	13342.3	3586.2	2567.7	2203.2	2090.6	2101.3	2154.9	2219.3	2305.0	2321.1
57.5°	20343.2	14226.8	3795.2	2712.4	2042.4	1870.8	1897.6	1999.5	2122.8	2192.5	2230.0
60°	21903.1	14119.6	4100.8	2749.9	1849.4	1672.5	1720.7	1870.8	1978.0	2037.0	2074.5
62.5°	22412.3	13449.5	4175.8	2476.6	1597.4	1484.9	1602.8	1758.2	1806.5	1870.8	1897.6
65°	21994.2	12500.7	3629.1	2010.2	1404.5	1345.5	1517.0	1635.0	1699.3	1731.4	1736.8
66°	21501.0	11932.5	3334.2	1827.9	1334.8	1302.6	1484.9	1581.4	1645.7	1640.3	1645.7
67.5°	20418.2	10742.5	2857.2	1570.6	1232.9	1238.3	1431.3	1495.6	1517.0	1500.9	1500.9
70°	16735.5	7563.7	2047.7	1190.0	1082.8	1157.9	1286.5	1302.6	1350.8	1329.4	1329.4
72.5°	10319.0	3714.8	1372.3	911.3	964.9	1082.8	1077.5	1131.1	1243.6	1275.8	1297.2
75°	5071.0	1506.3	905.9	771.9	863.0	905.9	895.2	1029.2	1190.0	1329.4	1377.7
77.5°	1924.4	750.5	632.5	675.4	696.9	680.8	712.9	932.7	1190.0	1442.0	1490.2
80°	595.0	520.0	498.5	557.5	525.3	498.5	536.1	771.9	1007.8	1093.5	1093.5
82.5°	359.2	407.4	386.0	380.6	353.8	359.2	386.0	552.1	777.3	814.8	814.8
85°	251.9	268.0	219.8	209.1	203.7	198.3	198.3	321.6	461.0	455.6	471.7
87.5°	96.5	107.2	80.4	80.4	75.0	53.6	42.9	53.6	53.6	37.5	26.8
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)