

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: P1211423

Luminaire Tested: **ARCH4-270-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37177 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
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



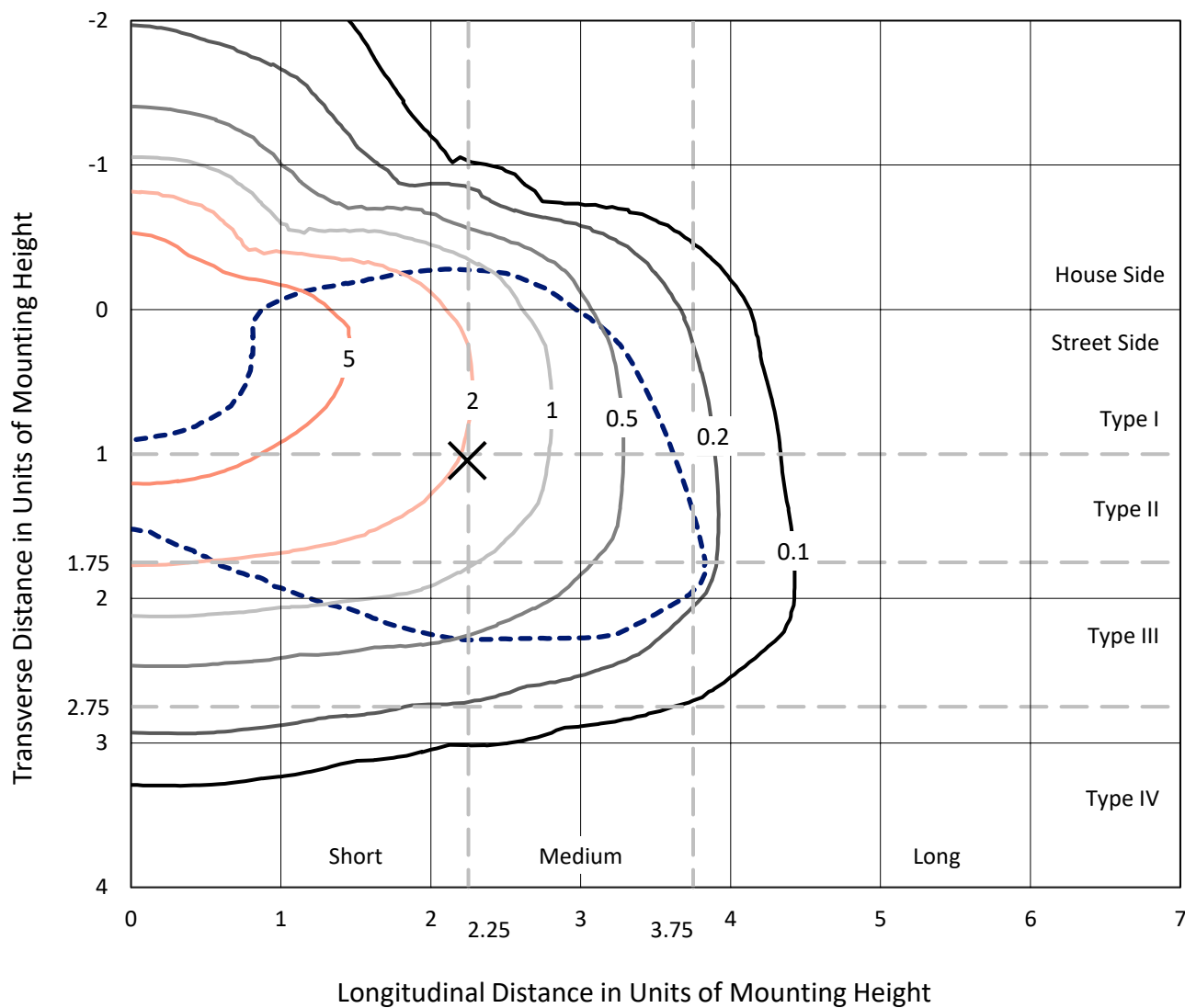
REPORT NUMBER: P1211423

CATALOG NUMBER: ARCH4-270-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

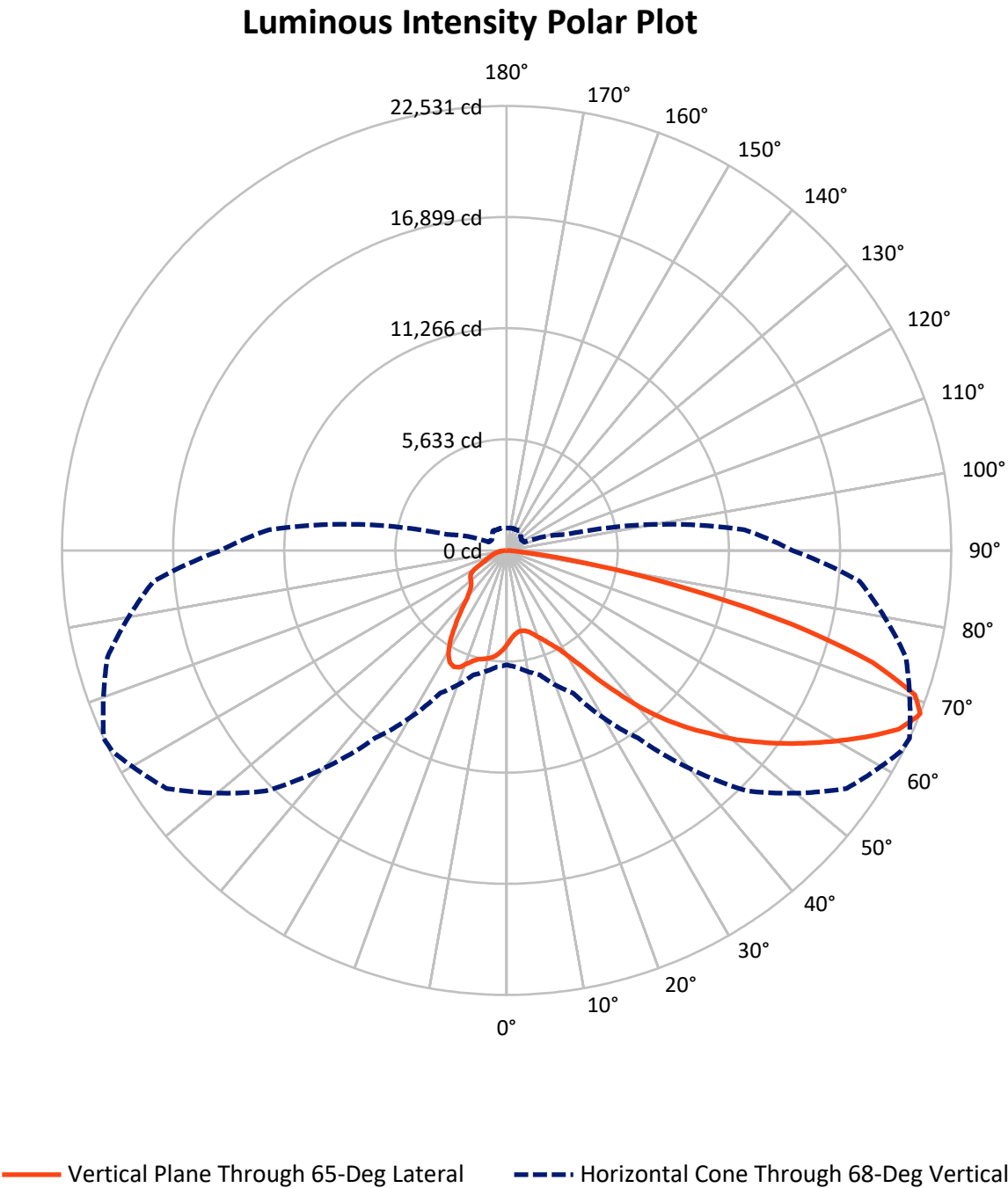
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc

Type III - Short - N/A

REPORT NUMBER: P1211423
CATALOG NUMBER: ARCH4-270-730-U-T3RE



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9114.7	0.0	9114.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	28062.3	0.0	28062.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	37177.0	0.0	37177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	1.2
10°-20°	1478.3	4.0
20°-30°	2675.6	7.2
30°-40°	4209.1	11.3
40°-50°	6268.9	16.9
50°-60°	8223.6	22.1
60°-70°	8993.0	24.2
70°-80°	4450.0	12.0
80°-90°	424.5	1.1
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°	37177.0	100.0
0°-180°	37177.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211423

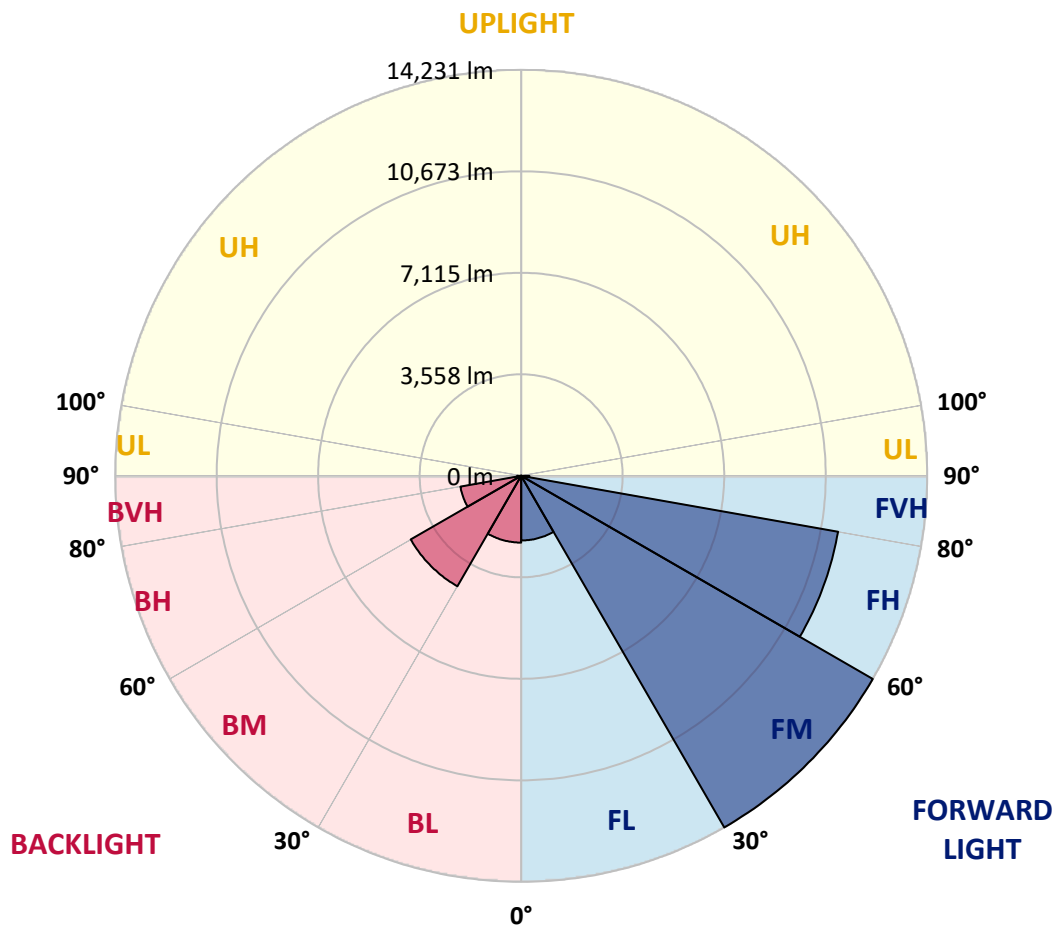
CATALOG NUMBER: ARCH4-270-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2266.4	6.1			
FM	(30°-60°)	14230.8	38.3			
FH	(60°-80°)	11279.6	30.3			G4/12000
FVH	(80°-90°)	285.5	0.8			G3/500
BL	(0°-30°)	2341.6	6.3	B3/2500		
BM	(30°-60°)	4470.7	12.0	B3/5000		
BH	(60°-80°)	2163.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	139.0	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 III Short



REPORT NUMBER: P1211423

CATALOG NUMBER: ARCH4-270-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8
2.5°	4146.7	4137.1	4161.1	4185.1	4237.8	4300.1	4386.4	4458.3	4467.9	4602.2	4707.6
5°	3902.2	3887.9	3911.8	3940.6	3964.6	4041.3	4132.4	4237.8	4281.0	4477.5	4702.8
7.5°	3926.2	3921.4	3931.0	3921.4	3921.4	3955.0	4017.3	4122.8	4170.7	4405.6	4726.8
10°	4065.2	4074.8	4079.6	4050.9	4022.1	4007.7	4026.9	4098.8	4132.4	4410.4	4832.3
12.5°	4295.3	4309.7	4314.5	4261.8	4223.4	4161.1	4127.6	4156.3	4180.3	4458.3	4980.9
15°	4607.0	4616.5	4583.0	4549.4	4453.5	4376.8	4295.3	4271.4	4281.0	4559.0	5148.7
17.5°	4971.3	4956.9	4956.9	4875.4	4750.8	4630.9	4496.7	4477.5	4477.5	4722.0	5388.4
20°	5369.2	5383.6	5340.4	5230.2	5105.5	4918.6	4784.3	4698.0	4707.6	4909.0	5680.8
22.5°	5944.5	5968.4	5853.4	5695.2	5503.4	5287.7	5095.9	4956.9	4961.7	5153.5	5982.8
25°	6562.9	6572.5	6500.5	6289.6	6030.7	5723.9	5469.9	5292.5	5287.7	5426.7	6371.1
27.5°	7195.7	7238.8	7095.0	6893.6	6654.0	6270.4	5934.9	5695.2	5656.8	5843.8	6855.3
30°	7847.6	7900.4	7761.3	7564.8	7267.6	6941.6	6543.7	6265.6	6241.7	6491.0	7502.5
32.5°	8504.4	8518.8	8408.5	8245.5	7977.1	7670.3	7349.1	7042.3	7018.3	7425.8	8341.4
35°	9041.3	9084.5	9007.8	8969.4	8772.9	8490.0	8178.4	8001.0	8063.4	8585.9	9429.6
37.5°	9688.5	9731.6	9645.4	9635.8	9573.4	9329.0	9113.2	9127.6	9189.9	9899.4	10575.4
40°	10623.3	10671.3	10450.7	10354.9	10354.9	10115.2	10043.2	10383.6	10465.1	11193.8	11769.1
42.5°	11414.3	11491.0	11361.6	11299.3	11112.3	10944.5	11030.8	11510.2	11649.2	12430.6	12809.3
45°	11797.8	11855.3	12008.8	12190.9	12008.8	11716.3	12042.3	12584.0	12780.6	13571.6	13849.6
47.5°	12004.0	12056.7	12234.1	12723.0	12847.7	12603.2	13063.4	13739.4	13873.6	14702.9	14842.0
50°	12032.7	12200.5	12430.6	12919.6	13490.1	13523.6	14089.3	14913.9	15072.1	15815.1	15714.4
52.5°	11797.8	11864.9	12339.5	13164.1	13796.9	14372.2	15206.3	16040.4	16155.5	16860.2	16486.3
55°	11414.3	11510.2	11984.8	13106.6	14094.1	15177.5	16342.5	17147.8	17277.3	17876.5	17200.6
57.5°	11069.1	11117.1	11625.2	12938.8	14391.3	15982.9	17354.0	18303.2	18389.5	18768.2	17727.9
60°	10685.6	10738.4	11246.5	12579.2	14611.8	16591.7	18408.6	19468.1	19544.8	19707.8	18341.5
62.5°	9693.3	9832.3	10469.9	11984.8	14554.3	17286.9	19535.2	20618.6	20714.5	20537.1	18825.7
65°	7871.6	8068.2	8849.6	10637.7	14017.4	17737.5	20455.6	21678.1	21841.1	21160.3	18955.1
67.5°	6112.2	6251.3	6879.3	8442.1	12133.4	17512.2	21050.1	22406.8	22454.7	21059.7	18236.0
68°	5795.8	5934.9	6534.1	7981.9	11610.9	17243.7	21035.7	22425.9	22531.4	20949.4	17958.0
70°	4434.4	4592.6	5163.0	6323.2	9357.7	15537.1	20158.4	21965.7	21951.3	19616.7	16232.2
72.5°	2770.9	2862.0	3255.1	3988.5	6188.9	11821.8	17109.5	19372.2	19410.6	15992.5	12449.8
75°	1759.4	1759.4	1740.2	1931.9	3173.6	6735.4	12718.3	14913.9	14942.6	11198.6	7847.6
77.5°	1529.3	1486.1	1280.0	1083.4	1265.6	2617.5	7526.4	9631.0	9472.8	6030.7	3724.9
80°	1289.6	1217.7	1049.9	872.5	815.0	819.8	2890.7	4889.8	4678.9	2171.6	1236.8
82.5°	930.0	867.7	791.0	685.5	628.0	489.0	604.0	1414.2	1380.6	628.0	402.7
85°	503.4	455.4	445.8	450.6	378.7	302.0	254.1	311.6	311.6	273.3	230.1
87.5°	177.4	129.4	153.4	172.6	148.6	124.6	100.7	119.8	124.6	119.8	110.3
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: P1211423

CATALOG NUMBER: ARCH4-270-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8
2.5°	4769.9	4817.9	4932.9	5033.6	5105.5	5167.8	5201.4	5215.8	5249.3	5254.1	5244.5
5°	4808.3	4932.9	5105.5	5254.1	5335.6	5369.2	5378.8	5383.6	5369.2	5378.8	5369.2
7.5°	4909.0	5067.2	5311.7	5441.1	5455.5	5402.7	5407.5	5388.4	5407.5	5426.7	5426.7
10°	5062.4	5263.7	5493.8	5541.8	5479.4	5450.7	5508.2	5623.3	5661.6	5714.3	5714.3
12.5°	5263.7	5503.4	5666.4	5623.3	5565.7	5661.6	5829.4	5944.5	5982.8	6002.0	5987.6
15°	5493.8	5752.7	5834.2	5690.4	5795.8	6002.0	6059.5	5992.4	5896.5	5853.4	5877.3
17.5°	5786.3	6002.0	5954.0	5858.2	6097.9	6126.6	5939.7	5723.9	5570.5	5513.0	5551.4
20°	6093.1	6280.0	6059.5	6102.7	6251.3	5944.5	5589.7	5311.7	5177.4	5153.5	5191.8
22.5°	6419.1	6538.9	6165.0	6385.5	6165.0	5541.8	5115.1	4971.3	4937.7	4976.1	5009.6
25°	6788.2	6773.8	6347.1	6471.8	5843.8	5048.0	4793.9	4784.3	4784.3	4808.3	4856.2
27.5°	7205.3	6979.9	6529.3	6356.7	5287.7	4640.5	4592.6	4597.4	4583.0	4587.8	4611.7
30°	7689.4	7258.0	6730.7	5978.0	4664.5	4333.7	4314.5	4300.1	4266.6	4257.0	4266.6
32.5°	8298.3	7550.4	6936.8	5354.8	4118.0	4017.3	4007.7	3931.0	3849.5	3839.9	3873.5
35°	9070.1	8082.5	7042.3	4573.4	3667.3	3662.6	3629.0	3509.1	3403.7	3403.7	3379.7
37.5°	9952.2	8768.1	7085.4	3811.2	3293.4	3317.4	3221.5	3068.1	2986.6	2938.7	2953.1
40°	10853.4	9549.5	7080.6	3144.8	2967.4	2972.2	2900.3	2713.4	2512.0	2392.2	2420.9
42.5°	11721.1	10259.0	6956.0	2790.1	2703.8	2689.4	2631.9	2377.8	2210.0	2114.1	2118.9
45°	12416.2	10992.4	6764.2	2579.1	2464.1	2488.0	2358.6	2205.2	2051.8	1965.5	1960.7
47.5°	13111.4	11548.5	6457.4	2449.7	2286.7	2243.6	2190.8	2085.4	1970.3	1874.4	1879.2
50°	13744.2	12023.1	6169.8	2363.4	2123.7	2013.4	2023.0	1960.7	1860.0	1773.7	1769.0
52.5°	14190.0	12334.7	6011.6	2315.5	1927.2	1807.3	1840.9	1807.3	1711.4	1649.1	1644.3
55°	14635.8	12574.4	6064.3	2253.1	1711.4	1615.5	1673.1	1663.5	1610.8	1591.6	1596.4
57.5°	14995.4	12756.6	6251.3	2138.1	1505.3	1447.8	1543.6	1514.9	1476.5	1481.3	1481.3
60°	15345.3	12991.5	6471.8	1874.4	1327.9	1332.7	1423.8	1371.1	1347.1	1390.2	1395.0
62.5°	15709.7	13245.6	6289.6	1490.9	1174.5	1208.1	1313.5	1270.4	1280.0	1342.3	1361.5
65°	15666.5	13221.6	5124.7	1222.4	1040.3	1107.4	1265.6	1251.2	1256.0	1280.0	1289.6
67.5°	14784.4	12377.9	3523.5	1040.3	944.4	1025.9	1227.2	1169.7	1174.5	1160.1	1164.9
68°	14487.2	12080.7	3106.5	1011.5	925.2	1006.7	1208.1	1155.3	1160.1	1145.7	1141.0
70°	12866.9	10345.3	1965.5	891.7	858.1	954.0	1112.2	1093.0	1088.2	1078.6	1078.6
72.5°	9808.3	7636.7	1035.5	771.8	781.4	872.5	992.3	1030.7	1006.7	1011.5	1040.3
75°	6495.8	4592.6	719.1	661.6	685.5	747.9	882.1	958.8	934.8	949.2	934.8
77.5°	3437.2	2473.7	575.3	560.9	560.9	604.0	728.7	848.5	848.5	838.9	824.6
80°	1126.6	872.5	460.2	441.0	450.6	474.6	584.9	695.1	709.5	690.3	680.7
82.5°	378.7	402.7	345.2	321.2	330.8	350.0	441.0	532.1	536.9	498.6	489.0
85°	234.9	268.5	215.7	210.9	210.9	215.7	268.5	292.4	268.5	239.7	249.3
87.5°	110.3	134.2	100.7	86.3	71.9	62.3	47.9	19.2	19.2	9.6	9.6
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)