

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: P1211339

Luminaire Tested: **ARCH4-240-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211339
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: ARCH4-240-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36285 lumens
Efficiency: N/A
Efficacy: 151.1 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): 240.2
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

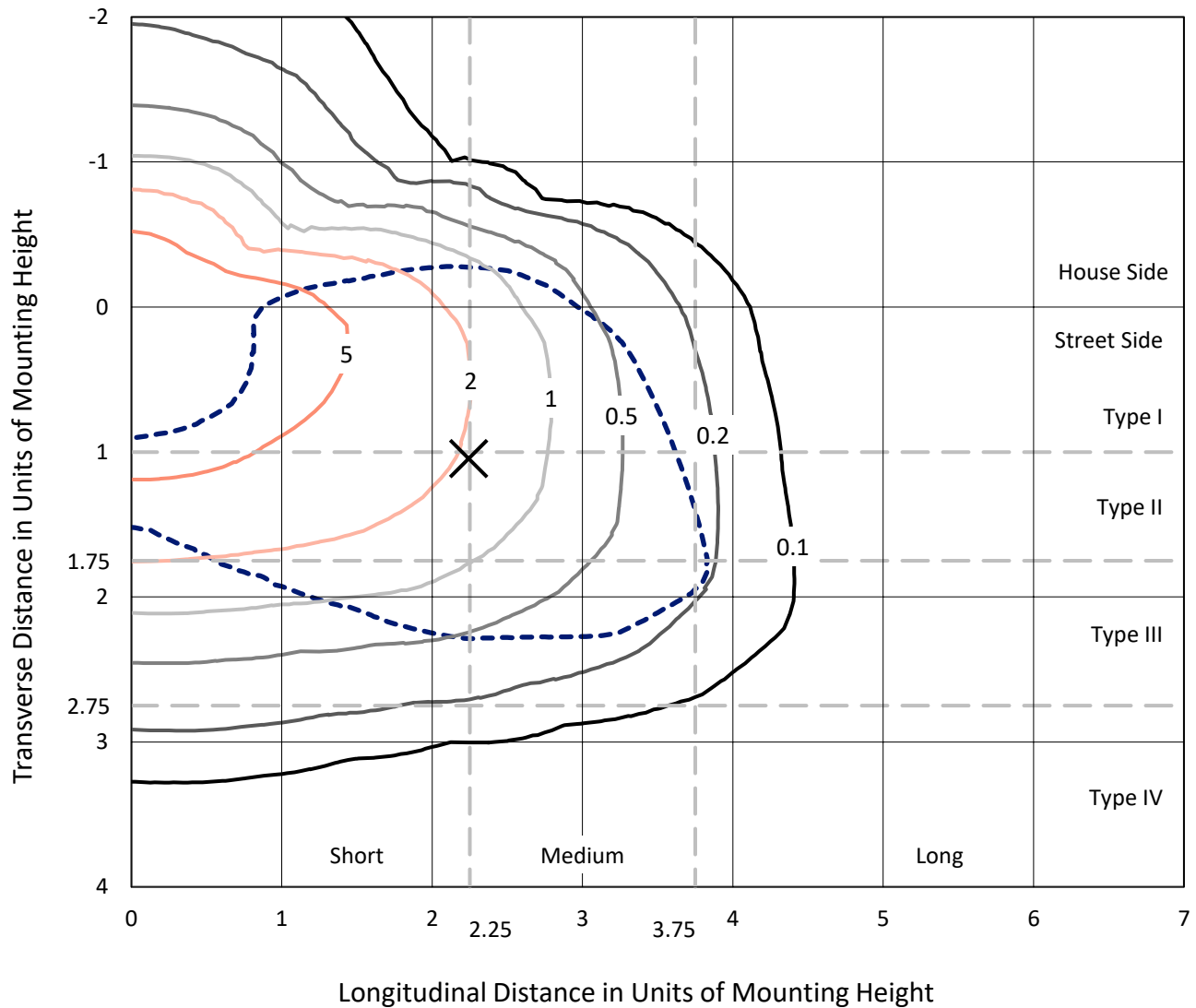


REPORT NUMBER: P1211339

CATALOG NUMBER: ARCH4-240-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

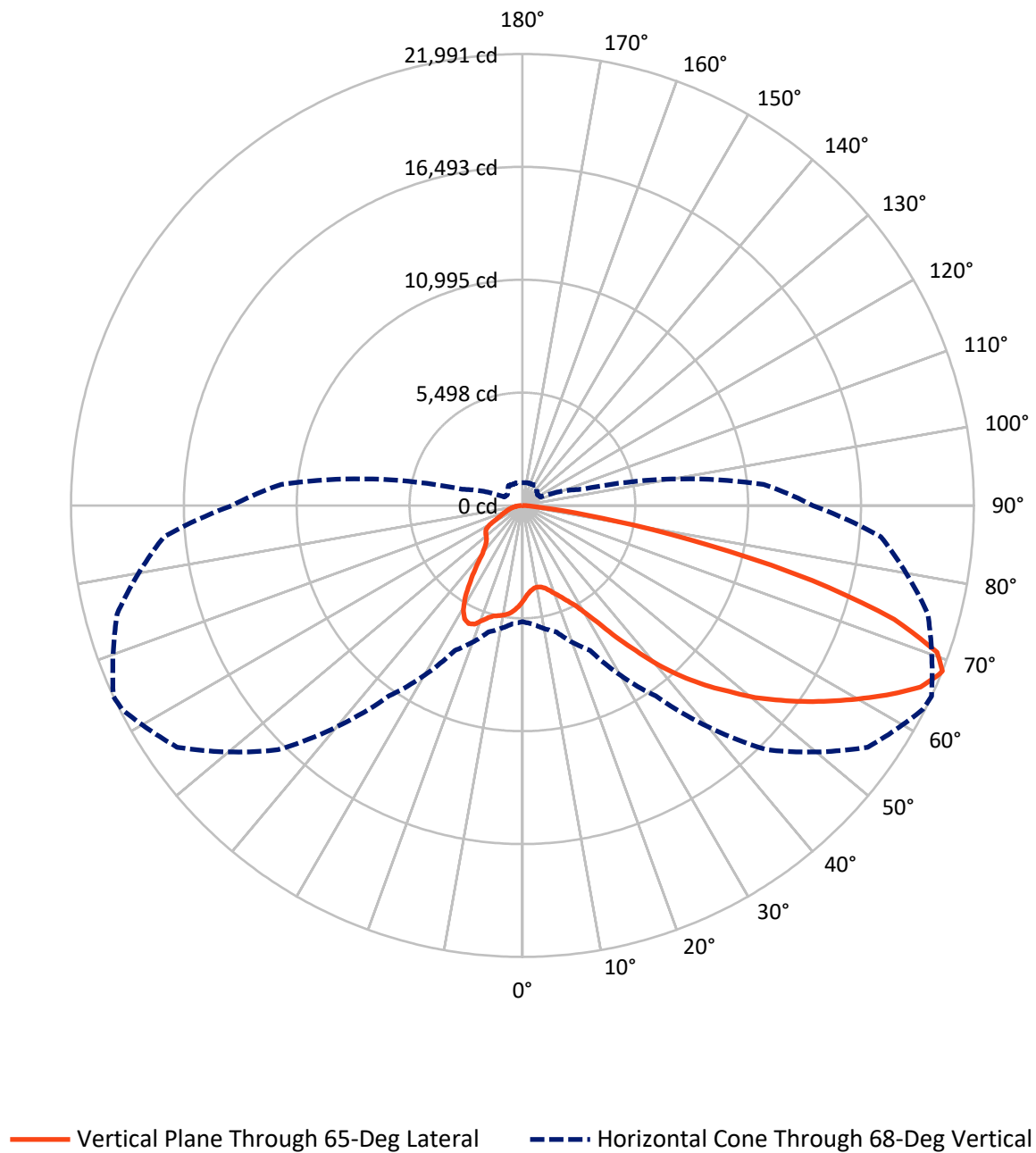


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1211339

CATALOG NUMBER: ARCH4-240-750-U-T3RE

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8896.0	0.0	8896.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	27389.0	0.0	27389.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	36285.0	0.0	36285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.2	1.2
10°-20°	1442.8	4.0
20°-30°	2611.4	7.2
30°-40°	4108.1	11.3
40°-50°	6118.5	16.9
50°-60°	8026.3	22.1
60°-70°	8777.2	24.2
70°-80°	4343.2	12.0
80°-90°	414.3	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°	36285.0	100.0
0°-180°	36285.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211339

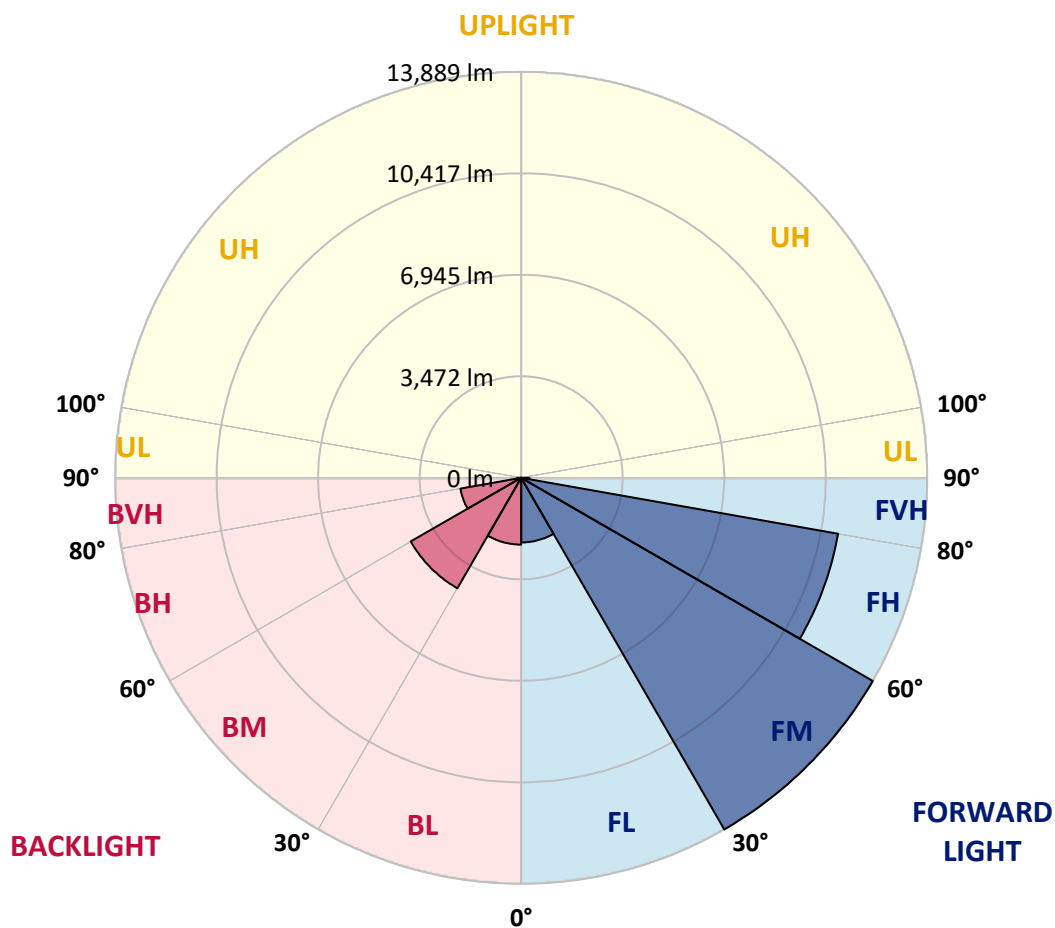
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2212.0	6.1			
FM	(30°-60°)	13889.4	38.3			
FH	(60°-80°)	11009.0	30.3			G4/12000
FVH	(80°-90°)	278.6	0.8			G3/500
BL	(0°-30°)	2285.5	6.3	B3/2500		
BM	(30°-60°)	4363.4	12.0	B3/5000		
BH	(60°-80°)	2111.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	135.7	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 III Short



REPORT NUMBER: P1211339

CATALOG NUMBER: ARCH4-240-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8
2.5°	4047.2	4037.9	4061.3	4084.7	4136.1	4197.0	4281.2	4351.4	4360.7	4491.7	4594.7
5°	3808.6	3794.6	3818.0	3846.0	3869.4	3944.3	4033.2	4136.1	4178.3	4370.1	4590.0
7.5°	3832.0	3827.3	3836.7	3827.3	3827.3	3860.1	3920.9	4023.8	4070.6	4299.9	4613.4
10°	3967.7	3977.1	3981.7	3953.7	3925.6	3911.6	3930.3	4000.5	4033.2	4304.6	4716.3
12.5°	4192.3	4206.3	4211.0	4159.5	4122.1	4061.3	4028.5	4056.6	4080.0	4351.4	4861.4
15°	4496.4	4505.8	4473.0	4440.3	4346.7	4271.8	4192.3	4168.9	4178.3	4449.6	5025.1
17.5°	4852.0	4838.0	4838.0	4758.4	4636.8	4519.8	4388.8	4370.1	4370.1	4608.7	5259.1
20°	5240.4	5254.4	5212.3	5104.7	4983.0	4800.5	4669.5	4585.3	4594.7	4791.2	5544.5
22.5°	5801.8	5825.2	5712.9	5558.5	5371.4	5160.8	4973.7	4838.0	4842.7	5029.8	5839.3
25°	6405.4	6414.8	6344.6	6138.7	5886.0	5586.6	5338.6	5165.5	5160.8	5296.5	6218.2
27.5°	7023.0	7065.1	6924.8	6728.2	6494.3	6120.0	5792.5	5558.5	5521.1	5703.6	6690.8
30°	7659.3	7710.8	7575.1	7383.3	7093.2	6775.0	6386.7	6115.3	6091.9	6335.2	7322.5
32.5°	8300.4	8314.4	8206.8	8047.7	7785.7	7486.2	7172.7	6873.3	6849.9	7247.6	8141.3
35°	8824.4	8866.5	8791.6	8754.2	8562.4	8286.3	7982.2	7809.1	7869.9	8379.9	9203.4
37.5°	9456.0	9498.2	9413.9	9404.6	9343.7	9105.1	8894.6	8908.6	8969.4	9661.9	10321.6
40°	10368.4	10415.2	10200.0	10106.4	10106.4	9872.5	9802.3	10134.5	10214.0	10925.2	11486.7
42.5°	11140.4	11215.3	11089.0	11028.1	10845.7	10681.9	10766.1	11234.0	11369.7	12132.4	12502.0
45°	11514.8	11570.9	11720.6	11898.4	11720.6	11435.2	11753.4	12282.1	12473.9	13245.9	13517.3
47.5°	11715.9	11767.4	11940.5	12417.8	12539.4	12300.8	12750.0	13409.7	13540.7	14350.2	14485.8
50°	11744.0	11907.8	12132.4	12609.6	13166.4	13199.2	13751.3	14556.0	14710.4	15435.7	15337.4
52.5°	11514.8	11580.3	12043.5	12848.2	13465.9	14027.3	14841.4	15655.6	15767.9	16455.7	16090.7
55°	11140.4	11234.0	11697.2	12792.1	13755.9	14813.4	15950.3	16736.4	16862.7	17447.6	16787.9
57.5°	10803.6	10850.4	11346.3	12628.3	14046.0	15599.4	16937.6	17864.0	17948.2	18317.9	17302.5
60°	10429.2	10480.7	10976.7	12277.4	14261.3	16193.6	17966.9	19001.0	19075.8	19234.9	17901.4
62.5°	9460.7	9596.4	10218.7	11697.2	14205.1	16872.1	19066.5	20123.9	20217.5	20044.4	18374.0
65°	7682.7	7874.6	8637.2	10382.5	13681.1	17311.9	19964.8	21157.9	21317.0	20652.6	18500.3
67.5°	5965.6	6101.3	6714.2	8239.5	11842.3	17092.0	20545.0	21869.1	21915.9	20554.4	17798.5
68°	5656.8	5792.5	6377.3	7790.4	11332.3	16830.0	20531.0	21887.9	21990.8	20446.8	17527.1
70°	4328.0	4482.4	5039.2	6171.5	9133.2	15164.3	19674.7	21438.7	21424.6	19146.0	15842.7
72.5°	2704.4	2793.3	3177.0	3892.8	6040.4	11538.1	16699.0	18907.4	18944.8	15608.8	12151.1
75°	1717.2	1717.2	1698.4	1885.6	3097.4	6573.8	12413.1	14556.0	14584.1	10929.9	7659.3
77.5°	1492.6	1450.5	1249.3	1057.4	1235.2	2554.7	7345.9	9399.9	9245.5	5886.0	3635.5
80°	1258.6	1188.4	1024.7	851.6	795.4	800.1	2821.4	4772.5	4566.6	2119.5	1207.2
82.5°	907.7	846.9	772.0	669.1	612.9	477.2	589.5	1380.3	1347.5	612.9	393.0
85°	491.3	444.5	435.1	439.8	369.6	294.8	248.0	304.1	304.1	266.7	224.6
87.5°	173.1	126.3	149.7	168.4	145.0	121.7	98.3	117.0	121.7	117.0	107.6
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°	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8
2.5°	4655.5	4702.3	4814.6	4912.8	4983.0	5043.8	5076.6	5090.6	5123.4	5128.1	5118.7
5°	4692.9	4814.6	4983.0	5128.1	5207.6	5240.4	5249.7	5254.4	5240.4	5249.7	5240.4
7.5°	4791.2	4945.6	5184.2	5310.5	5324.6	5273.1	5277.8	5259.1	5277.8	5296.5	5296.5
10°	4940.9	5137.4	5362.0	5408.8	5348.0	5319.9	5376.0	5488.3	5525.8	5577.2	5577.2
12.5°	5137.4	5371.4	5530.5	5488.3	5432.2	5525.8	5689.5	5801.8	5839.3	5858.0	5843.9
15°	5362.0	5614.7	5694.2	5553.8	5656.8	5858.0	5914.1	5848.6	5755.0	5712.9	5736.3
17.5°	5647.4	5858.0	5811.2	5717.6	5951.6	5979.6	5797.1	5586.6	5436.9	5380.7	5418.2
20°	5946.9	6129.3	5914.1	5956.2	6101.3	5801.8	5455.6	5184.2	5053.2	5029.8	5067.2
22.5°	6265.0	6382.0	6017.1	6232.3	6017.1	5408.8	4992.4	4852.0	4819.3	4856.7	4889.4
25°	6625.3	6611.3	6194.9	6316.5	5703.6	4926.9	4678.9	4669.5	4669.5	4692.9	4739.7
27.5°	7032.4	6812.5	6372.7	6204.2	5160.8	4529.2	4482.4	4487.1	4473.0	4477.7	4501.1
30°	7504.9	7083.8	6569.2	5834.6	4552.6	4229.7	4211.0	4197.0	4164.2	4154.9	4164.2
32.5°	8099.2	7369.3	6770.4	5226.3	4019.2	3920.9	3911.6	3836.7	3757.2	3747.8	3780.5
35°	8852.5	7888.6	6873.3	4463.7	3579.4	3574.7	3541.9	3424.9	3322.0	3322.0	3298.6
37.5°	9713.4	8557.7	6915.4	3719.7	3214.4	3237.8	3144.2	2994.5	2914.9	2868.2	2882.2
40°	10593.0	9320.4	6910.7	3069.4	2896.2	2900.9	2830.7	2648.3	2451.7	2334.8	2362.8
42.5°	11439.9	10012.8	6789.1	2723.1	2638.9	2624.9	2568.7	2320.7	2157.0	2063.4	2068.1
45°	12118.3	10728.7	6601.9	2517.2	2405.0	2428.3	2302.0	2152.3	2002.6	1918.3	1913.7
47.5°	12796.8	11271.5	6302.5	2390.9	2231.8	2189.7	2138.3	2035.3	1923.0	1829.4	1834.1
50°	13414.4	11734.7	6021.7	2306.7	2072.7	1965.1	1974.5	1913.7	1815.4	1731.2	1726.5
52.5°	13849.5	12038.8	5867.3	2259.9	1880.9	1763.9	1796.7	1763.9	1670.4	1609.5	1604.9
55°	14284.7	12272.7	5918.8	2199.1	1670.4	1576.8	1632.9	1623.6	1572.1	1553.4	1558.1
57.5°	14635.6	12450.5	6101.3	2086.8	1469.2	1413.0	1506.6	1478.5	1441.1	1445.8	1445.8
60°	14977.1	12679.8	6316.5	1829.4	1296.1	1300.7	1389.6	1338.2	1314.8	1356.9	1361.6
62.5°	15332.7	12927.8	6138.7	1455.1	1146.3	1179.1	1282.0	1239.9	1249.3	1310.1	1328.8
65°	15290.6	12904.4	5001.7	1193.1	1015.3	1080.8	1235.2	1221.2	1225.9	1249.3	1258.6
67.5°	14429.7	12080.9	3439.0	1015.3	921.7	1001.3	1197.8	1141.6	1146.3	1132.3	1137.0
68°	14139.6	11790.8	3031.9	987.2	903.0	982.6	1179.1	1127.6	1132.3	1118.3	1113.6
70°	12558.1	10097.0	1918.3	870.3	837.5	931.1	1085.5	1066.8	1062.1	1052.8	1052.8
72.5°	9573.0	7453.5	1010.6	753.3	762.7	851.6	968.5	1006.0	982.6	987.2	1015.3
75°	6339.9	4482.4	701.8	645.7	669.1	729.9	860.9	935.8	912.4	926.4	912.4
77.5°	3354.8	2414.3	561.5	547.4	547.4	589.5	711.2	828.2	828.2	818.8	804.8
80°	1099.5	851.6	449.2	430.5	439.8	463.2	570.8	678.4	692.5	673.8	664.4
82.5°	369.6	393.0	336.9	313.5	322.8	341.6	430.5	519.4	524.0	486.6	477.2
85°	229.3	262.0	210.6	205.9	205.9	210.6	262.0	285.4	262.0	233.9	243.3
87.5°	107.6	131.0	98.3	84.2	70.2	60.8	46.8	18.7	18.7	9.4	9.4
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)