

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: P1211531

Luminaire Tested: **ARCH4-300-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211531
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: ARCH4-300-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42496 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

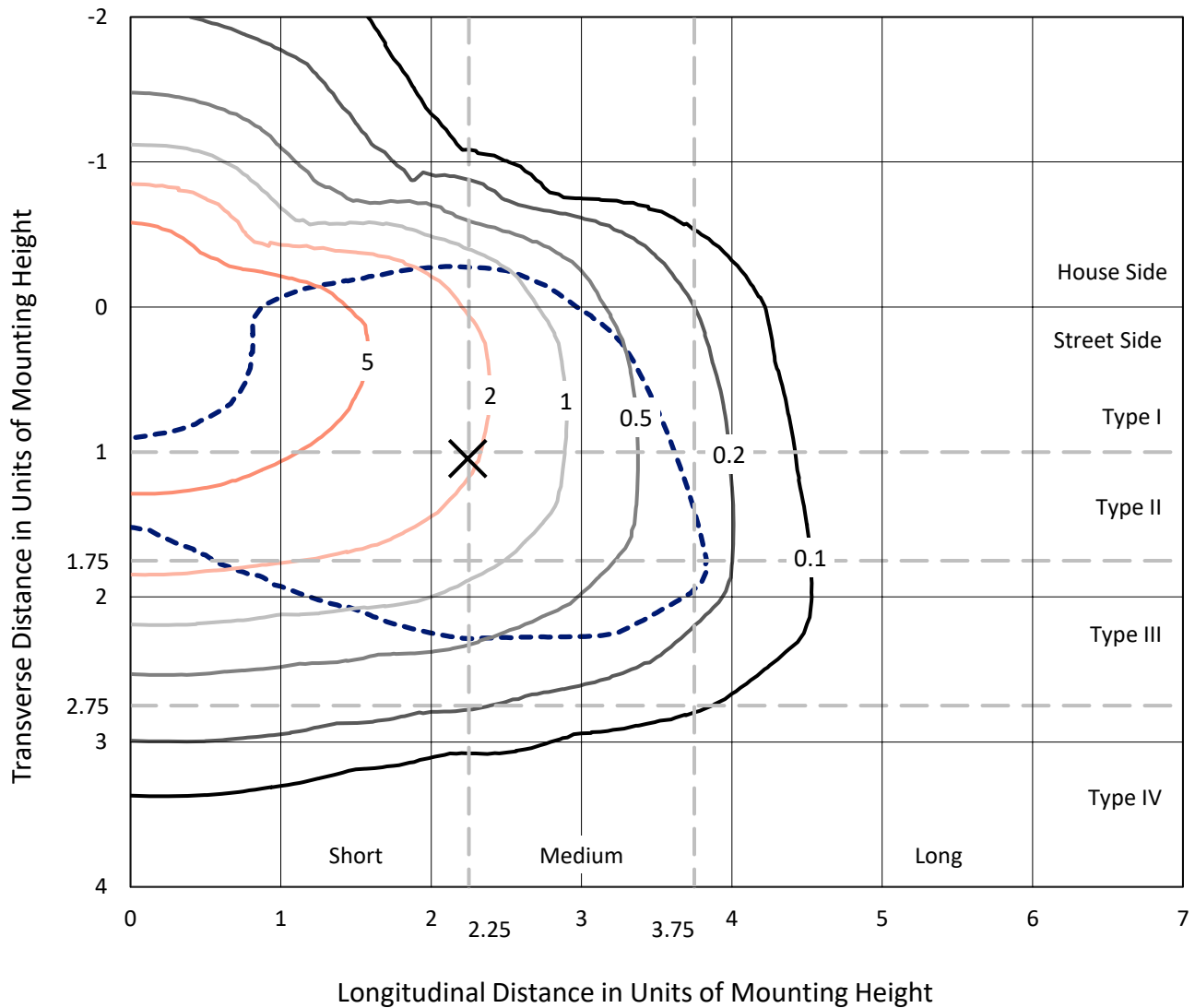


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Iso-Footcandle Lines of Horizontal Illumination

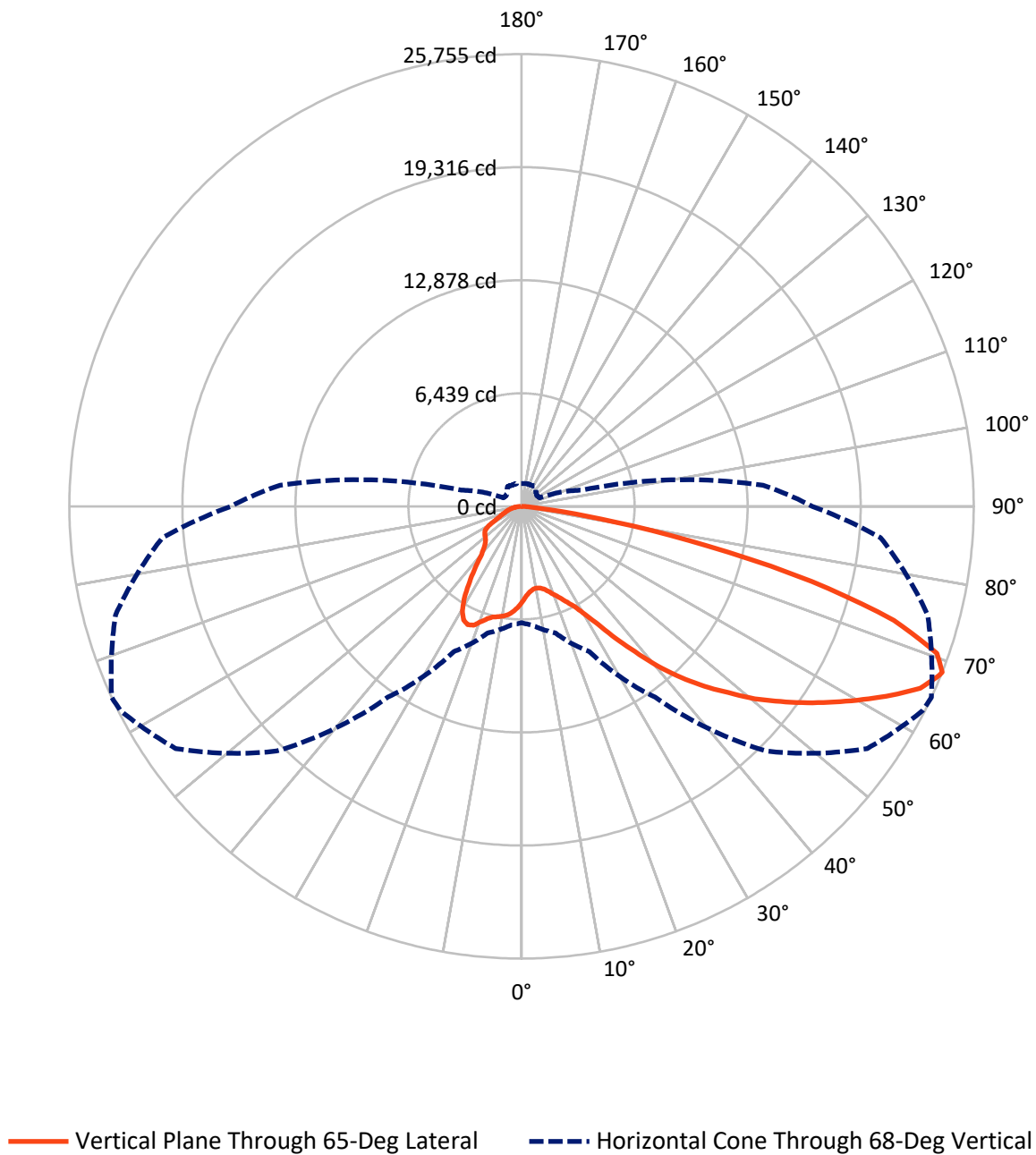
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10418.8	0.0	10418.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	32077.2	0.0	32077.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	42496.0	0.0	42496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.0	1.2
10°-20°	1689.8	4.0
20°-30°	3058.4	7.2
30°-40°	4811.2	11.3
40°-50°	7165.8	16.9
50°-60°	9400.1	22.1
60°-70°	10279.6	24.2
70°-80°	5086.7	12.0
80°-90°	485.2	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°	42496.0	100.0
0°-180°	42496.0	100.0

Coefficient of Utilization



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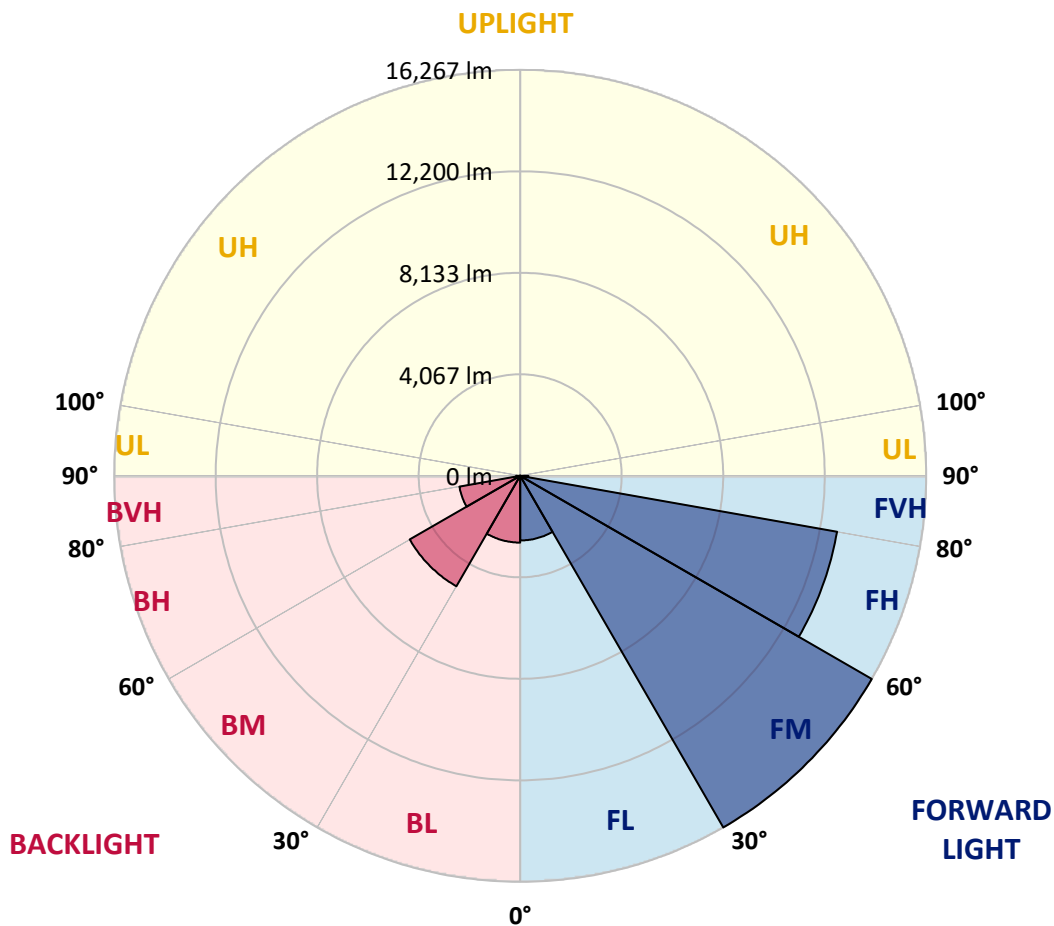
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2590.6	6.1			
FM	(30°-60°)	16266.9	38.3			
FH	(60°-80°)	12893.4	30.3			G5
FVH	(80°-90°)	326.3	0.8			G3/500
BL	(0°-30°)	2676.7	6.3	B4/5000		
BM	(30°-60°)	5110.3	12.0	B4/8500		
BH	(60°-80°)	2472.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	158.9	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5
2.5°	4740.0	4729.1	4756.5	4783.9	4844.1	4915.4	5014.0	5096.2	5107.2	5260.6	5381.2
5°	4460.5	4444.1	4471.5	4504.4	4531.8	4619.5	4723.6	4844.1	4893.5	5118.1	5375.7
7.5°	4487.9	4482.5	4493.4	4482.5	4482.5	4520.8	4592.1	4712.6	4767.4	5035.9	5403.1
10°	4646.9	4657.8	4663.3	4630.4	4597.5	4581.1	4603.0	4685.2	4723.6	5041.4	5523.6
12.5°	4909.9	4926.3	4931.8	4871.5	4827.7	4756.5	4718.1	4751.0	4778.4	5096.2	5693.5
15°	5266.1	5277.0	5238.7	5200.3	5090.7	5003.0	4909.9	4882.5	4893.5	5211.3	5885.3
17.5°	5682.5	5666.1	5666.1	5572.9	5430.5	5293.5	5140.0	5118.1	5118.1	5397.6	6159.3
20°	6137.4	6153.8	6104.5	5978.5	5836.0	5622.3	5468.8	5370.2	5381.2	5611.3	6493.6
22.5°	6794.9	6822.3	6690.8	6510.0	6290.8	6044.2	5825.0	5666.1	5671.6	5890.8	6838.8
25°	7501.8	7512.8	7430.6	7189.5	6893.6	6542.9	6252.4	6049.7	6044.2	6203.1	7282.6
27.5°	8225.2	8274.5	8110.1	7879.9	7605.9	7167.6	6784.0	6510.0	6466.2	6679.9	7836.1
30°	8970.4	9030.7	8871.8	8647.1	8307.4	7934.7	7479.9	7162.1	7134.7	7419.6	8575.9
32.5°	9721.1	9737.6	9611.6	9425.2	9118.4	8767.7	8400.5	8049.8	8022.4	8488.2	9534.8
35°	10334.9	10384.2	10296.5	10252.7	10028.0	9704.7	9348.5	9145.8	9217.0	9814.3	10778.7
37.5°	11074.7	11124.0	11025.3	11014.4	10943.1	10663.7	10417.1	10433.5	10504.8	11315.8	12088.4
40°	12143.2	12198.0	11945.9	11836.3	11836.3	11562.4	11480.2	11869.2	11962.4	12795.3	13452.9
42.5°	13047.4	13135.1	12987.1	12915.9	12702.2	12510.4	12609.0	13157.0	13315.9	14209.1	14642.0
45°	13485.8	13551.5	13726.9	13935.1	13726.9	13392.6	13765.2	14384.4	14609.1	15513.3	15831.1
47.5°	13721.4	13781.7	13984.4	14543.4	14685.8	14406.4	14932.4	15705.1	15858.5	16806.5	16965.4
50°	13754.3	13946.1	14209.1	14768.0	15420.1	15458.5	16105.1	17047.6	17228.5	18077.8	17962.8
52.5°	13485.8	13562.5	14105.0	15047.5	15770.8	16428.4	17381.9	18335.4	18466.9	19272.4	18845.0
55°	13047.4	13157.0	13699.5	14981.7	16110.6	17349.0	18680.6	19601.2	19749.2	20434.1	19661.5
57.5°	12652.8	12707.6	13288.5	14790.0	16450.3	18269.6	19836.8	20921.8	21020.5	21453.4	20264.3
60°	12214.5	12274.7	12855.6	14379.0	16702.4	18965.6	21042.4	22253.4	22341.1	22527.4	20965.7
62.5°	11080.1	11239.0	11967.9	13699.5	16636.6	19760.1	22330.1	23568.6	23678.2	23475.4	21519.1
65°	8997.8	9222.5	10115.7	12159.7	16022.9	20275.2	23382.3	24779.6	24965.9	24187.8	21667.1
67.5°	6986.7	7145.6	7863.5	9649.9	13869.3	20017.7	24061.8	25612.5	25667.3	24072.7	20845.1
68°	6625.1	6784.0	7469.0	9123.9	13272.1	19710.8	24045.3	25634.5	25755.0	23946.7	20527.3
70°	5068.8	5249.6	5901.7	7227.8	10696.6	17760.0	23042.5	25108.4	25092.0	22423.3	18554.6
72.5°	3167.3	3271.4	3720.8	4559.2	7074.4	13513.2	19557.4	22143.8	22187.7	18280.6	14231.0
75°	2011.1	2011.1	1989.2	2208.4	3627.6	7699.1	14537.9	17047.6	17080.5	12800.8	8970.4
77.5°	1748.1	1698.7	1463.1	1238.4	1446.7	2992.0	8603.3	11008.9	10828.1	6893.6	4257.8
80°	1474.1	1391.9	1200.1	997.3	931.6	937.0	3304.3	5589.4	5348.3	2482.3	1413.8
82.5°	1063.1	991.8	904.2	783.6	717.9	558.9	690.5	1616.5	1578.2	717.9	460.3
85°	575.4	520.6	509.6	515.1	432.9	345.2	290.4	356.2	356.2	312.3	263.0
87.5°	202.8	148.0	175.4	197.3	169.9	142.5	115.1	137.0	142.5	137.0	126.0
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°	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5	5430.5
2.5°	5452.4	5507.2	5638.7	5753.8	5836.0	5907.2	5945.6	5962.0	6000.4	6005.9	5994.9
5°	5496.2	5638.7	5836.0	6005.9	6099.0	6137.4	6148.3	6153.8	6137.4	6148.3	6137.4
7.5°	5611.3	5792.1	6071.6	6219.6	6236.0	6175.7	6181.2	6159.3	6181.2	6203.1	6203.1
10°	5786.7	6016.8	6279.8	6334.6	6263.4	6230.5	6296.3	6427.8	6471.6	6531.9	6531.9
12.5°	6016.8	6290.8	6477.1	6427.8	6362.0	6471.6	6663.4	6794.9	6838.8	6860.7	6844.3
15°	6279.8	6575.7	6668.9	6504.5	6625.1	6860.7	6926.5	6849.7	6740.1	6690.8	6718.2
17.5°	6614.1	6860.7	6805.9	6696.3	6970.3	7003.2	6789.5	6542.9	6367.5	6301.8	6345.6
20°	6964.8	7178.5	6926.5	6975.8	7145.6	6794.9	6389.4	6071.6	5918.2	5890.8	5934.6
22.5°	7337.4	7474.4	7047.0	7299.1	7047.0	6334.6	5846.9	5682.5	5644.2	5688.0	5726.4
25°	7759.4	7742.9	7255.2	7397.7	6679.9	5770.2	5479.8	5468.8	5468.8	5496.2	5551.0
27.5°	8236.1	7978.6	7463.5	7266.2	6044.2	5304.4	5249.6	5255.1	5238.7	5244.2	5271.6
30°	8789.6	8296.4	7693.6	6833.3	5331.8	4953.7	4931.8	4915.4	4877.0	4866.1	4877.0
32.5°	9485.5	8630.7	7929.3	6120.9	4707.1	4592.1	4581.1	4493.4	4400.3	4389.3	4427.7
35°	10367.8	9238.9	8049.8	5227.7	4192.0	4186.6	4148.2	4011.2	3890.7	3890.7	3863.3
37.5°	11376.0	10022.5	8099.1	4356.4	3764.6	3792.0	3682.4	3507.1	3413.9	3359.1	3375.6
40°	12406.2	10915.7	8093.7	3594.7	3392.0	3397.5	3315.3	3101.6	2871.4	2734.4	2767.3
42.5°	13398.1	11726.8	7951.2	3189.2	3090.6	3074.2	3008.4	2718.0	2526.2	2416.6	2422.1
45°	14192.7	12565.2	7732.0	2948.1	2816.6	2844.0	2696.1	2520.7	2345.4	2246.7	2241.2
47.5°	14987.2	13200.8	7381.3	2800.2	2613.9	2564.5	2504.3	2383.7	2252.2	2142.6	2148.1
50°	15710.6	13743.3	7052.5	2701.5	2427.5	2301.5	2312.5	2241.2	2126.2	2027.5	2022.0
52.5°	16220.2	14099.5	6871.7	2646.7	2202.9	2065.9	2104.2	2065.9	1956.3	1885.0	1879.6
55°	16729.8	14373.5	6931.9	2575.5	1956.3	1846.7	1912.4	1901.5	1841.2	1819.3	1824.8
57.5°	17140.8	14581.7	7145.6	2444.0	1720.7	1654.9	1764.5	1731.6	1687.8	1693.3	1693.3
60°	17540.8	14850.2	7397.7	2142.6	1517.9	1523.4	1627.5	1567.2	1539.8	1589.1	1594.6
62.5°	17957.3	15140.7	7189.5	1704.2	1342.5	1380.9	1501.5	1452.1	1463.1	1534.3	1556.3
65°	17908.0	15113.3	5857.9	1397.3	1189.1	1265.8	1446.7	1430.2	1435.7	1463.1	1474.1
67.5°	16899.7	14148.8	4027.6	1189.1	1079.5	1172.7	1402.8	1337.1	1342.5	1326.1	1331.6
68°	16559.9	13809.1	3550.9	1156.2	1057.6	1150.8	1380.9	1320.6	1326.1	1309.7	1304.2
70°	14707.8	11825.4	2246.7	1019.2	980.9	1090.5	1271.3	1249.4	1243.9	1233.0	1233.0
72.5°	11211.7	8729.3	1183.6	882.2	893.2	997.3	1134.3	1178.2	1150.8	1156.2	1189.1
75°	7425.1	5249.6	822.0	756.2	783.6	854.8	1008.3	1096.0	1068.6	1085.0	1068.6
77.5°	3929.0	2827.6	657.6	641.1	641.1	690.5	832.9	969.9	969.9	959.0	942.5
80°	1287.8	997.3	526.1	504.1	515.1	542.5	668.5	794.6	811.0	789.1	778.1
82.5°	432.9	460.3	394.5	367.1	378.1	400.0	504.1	608.3	613.7	569.9	558.9
85°	268.5	306.9	246.6	241.1	241.1	246.6	306.9	334.3	306.9	274.0	284.9
87.5°	126.0	153.4	115.1	98.6	82.2	71.2	54.8	21.9	21.9	11.0	11.0
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)