

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: P1211519

Luminaire Tested: **ARCH4-300-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211519
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: ARCH4-300-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40473 lumens
Efficiency: N/A
Efficacy: 135.3 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



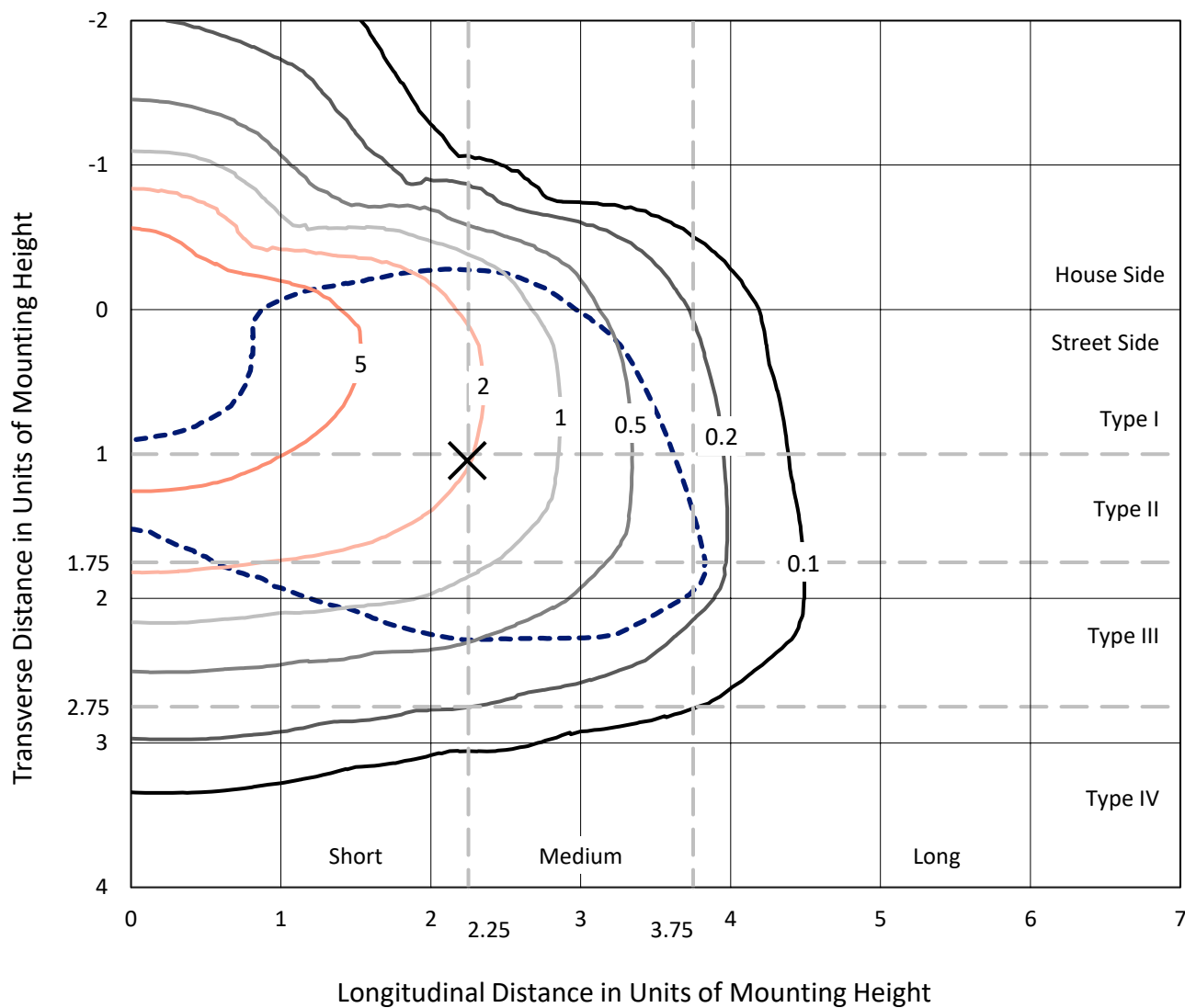
REPORT NUMBER: P1211519

CATALOG NUMBER: ARCH4-300-730-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

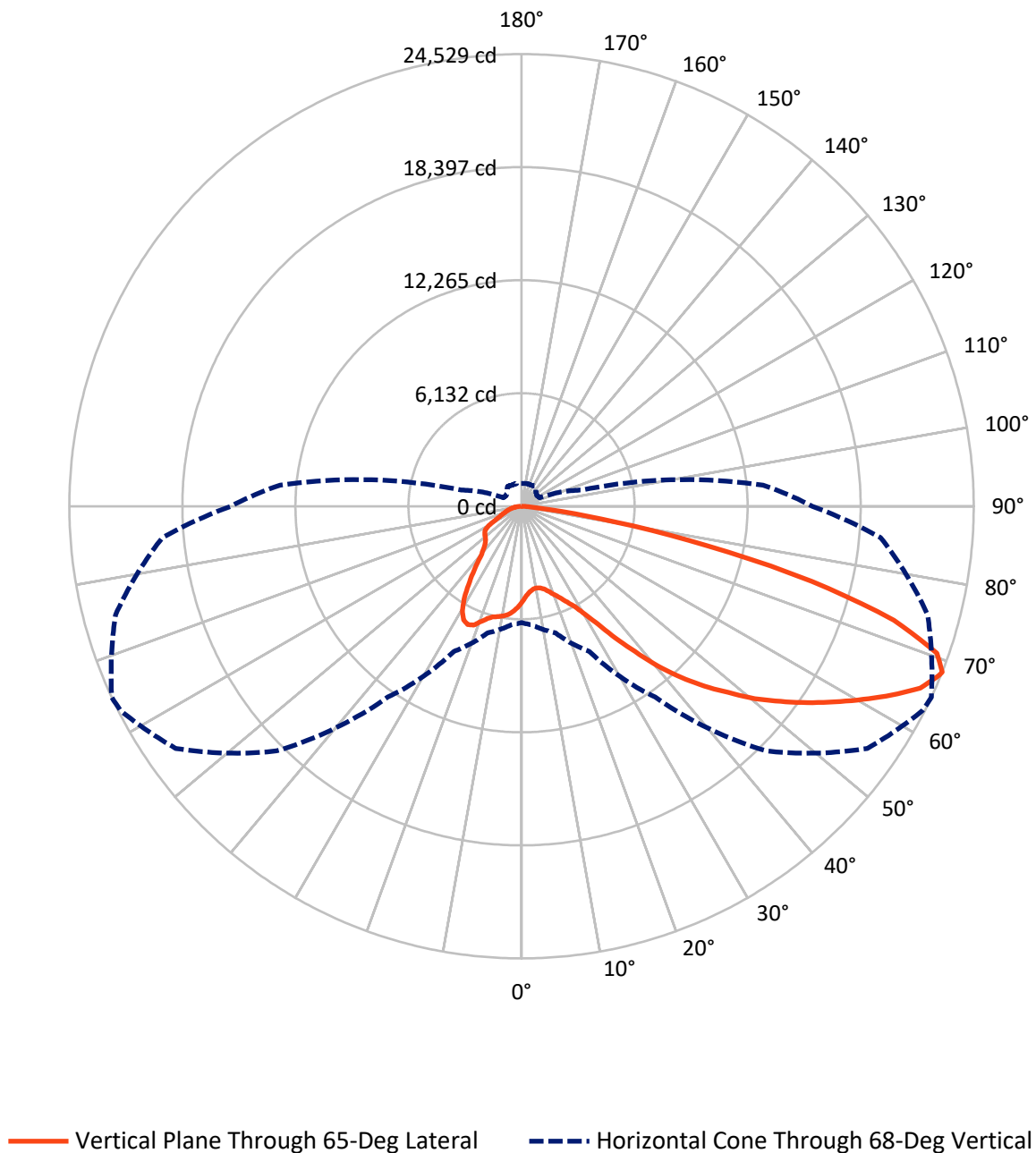


Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1211519

CATALOG NUMBER: ARCH4-300-730-U-T3RE

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9922.8	0.0	9922.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	30550.2	0.0	30550.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	40473.0	0.0	40473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.3	1.2
10°-20°	1609.4	4.0
20°-30°	2912.8	7.2
30°-40°	4582.2	11.3
40°-50°	6824.7	16.9
50°-60°	8952.6	22.1
60°-70°	9790.3	24.2
70°-80°	4844.5	12.0
80°-90°	462.1	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°	40473.0	100.0
0°-180°	40473.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211519

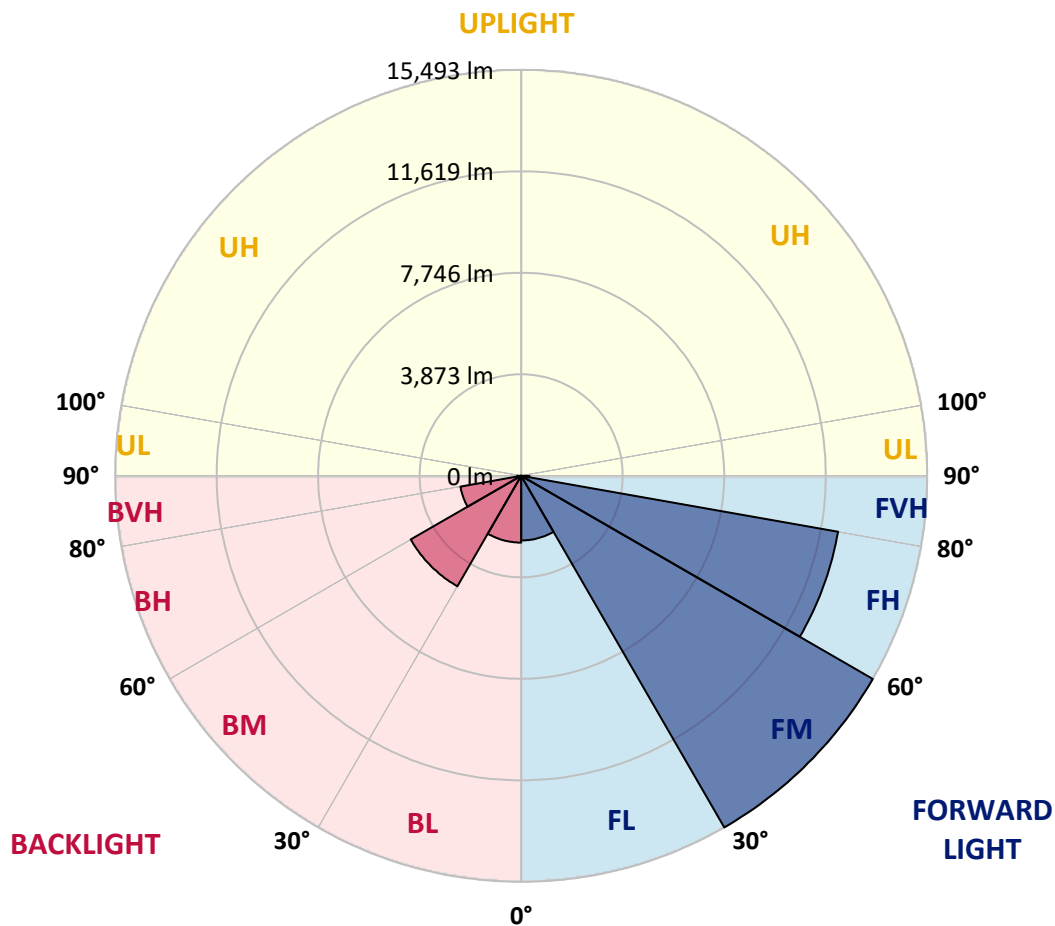
CATALOG NUMBER: ARCH4-300-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2467.3	6.1			
FM	(30°-60°)	15492.5	38.3			
FH	(60°-80°)	12279.6	30.3			G5
FVH	(80°-90°)	310.8	0.8			G3/500
BL	(0°-30°)	2549.2	6.3	B4/5000		
BM	(30°-60°)	4867.0	12.0	B3/5000		
BH	(60°-80°)	2355.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	151.3	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



REPORT NUMBER: P1211519

CATALOG NUMBER: ARCH4-300-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0
2.5°	4514.4	4503.9	4530.0	4556.1	4613.5	4681.4	4775.3	4853.6	4864.0	5010.2	5125.0
5°	4248.2	4232.6	4258.6	4290.0	4316.1	4399.6	4498.7	4613.5	4660.5	4874.5	5119.8
7.5°	4274.3	4269.1	4279.5	4269.1	4269.1	4305.6	4373.5	4488.3	4540.5	4796.2	5145.9
10°	4425.7	4436.1	4441.3	4410.0	4378.7	4363.0	4383.9	4462.2	4498.7	4801.4	5260.7
12.5°	4676.2	4691.8	4697.0	4639.6	4597.9	4530.0	4493.5	4524.8	4550.9	4853.6	5422.5
15°	5015.4	5025.8	4989.3	4952.8	4848.4	4764.9	4676.2	4650.1	4660.5	4963.2	5605.1
17.5°	5412.0	5396.4	5396.4	5307.6	5172.0	5041.5	4895.4	4874.5	4874.5	5140.6	5866.1
20°	5845.2	5860.9	5813.9	5693.9	5558.2	5354.6	5208.5	5114.5	5125.0	5344.2	6184.4
22.5°	6471.5	6497.6	6372.3	6200.1	5991.3	5756.5	5547.7	5396.4	5401.6	5610.3	6513.2
25°	7144.7	7155.1	7076.9	6847.2	6565.4	6231.4	5954.8	5761.7	5756.5	5907.8	6936.0
27.5°	7833.6	7880.6	7724.0	7504.8	7243.9	6826.4	6461.0	6200.1	6158.3	6361.9	7463.1
30°	8543.4	8600.8	8449.4	8235.5	7911.9	7557.0	7123.8	6821.1	6795.0	7066.4	8167.6
32.5°	9258.4	9274.0	9154.0	8976.6	8684.3	8350.3	8000.6	7666.6	7640.5	8084.1	9080.9
35°	9842.9	9889.9	9806.4	9764.6	9550.6	9242.7	8903.5	8710.4	8778.2	9347.1	10265.6
37.5°	10547.5	10594.4	10500.5	10490.0	10422.2	10156.0	9921.2	9936.8	10004.7	10777.1	11513.0
40°	11565.1	11617.3	11377.3	11272.9	11272.9	11011.9	10933.7	11304.2	11392.9	12186.2	12812.5
42.5°	12426.3	12509.8	12368.9	12301.0	12097.5	11914.8	12008.8	12530.6	12682.0	13532.7	13945.0
45°	12843.8	12906.4	13073.4	13271.7	13073.4	12755.1	13109.9	13699.7	13913.7	14774.8	15077.5
47.5°	13068.2	13125.6	13318.7	13851.0	13986.7	13720.6	14221.6	14957.4	15103.6	16006.5	16157.8
50°	13099.5	13282.2	13532.7	14065.0	14686.1	14722.6	15338.4	16236.1	16408.3	17217.2	17107.6
52.5°	12843.8	12916.8	13433.5	14331.2	15020.1	15646.3	16554.4	17462.5	17587.8	18355.0	17947.9
55°	12426.3	12530.6	13047.3	14268.5	15343.6	16523.1	17791.3	18668.1	18809.0	19461.4	18725.5
57.5°	12050.5	12102.7	12655.9	14085.9	15667.2	17399.9	18892.5	19925.9	20019.8	20432.1	19299.6
60°	11633.0	11690.4	12243.6	13694.5	15907.3	18062.7	20040.7	21194.1	21277.6	21455.0	19967.6
62.5°	10552.7	10704.0	11398.1	13047.3	15844.7	18819.5	21267.1	22446.6	22551.0	22357.9	20494.7
65°	8569.5	8783.5	9634.1	11580.8	15260.1	19310.0	22269.2	23600.0	23777.4	23036.3	20635.6
67.5°	6654.1	6805.5	7489.2	9190.5	13209.1	19064.7	22916.3	24393.3	24445.5	22926.7	19852.8
68°	6309.7	6461.0	7113.4	8689.5	12640.2	18772.5	22900.7	24414.1	24529.0	22806.7	19550.1
70°	4827.5	4999.7	5620.8	6883.8	10187.3	16914.5	21945.6	23913.1	23897.5	21355.9	17671.3
72.5°	3016.5	3115.7	3543.7	4342.1	6737.6	12869.9	18626.4	21089.7	21131.4	17410.3	13553.6
75°	1915.3	1915.3	1894.5	2103.2	3454.9	7332.6	13845.8	16236.1	16267.4	12191.4	8543.4
77.5°	1664.8	1617.9	1393.5	1179.5	1377.8	2849.5	8193.7	10484.8	10312.6	6565.4	4055.1
80°	1403.9	1325.6	1142.9	949.8	887.2	892.4	3147.0	5323.3	5093.7	2364.2	1346.5
82.5°	1012.5	944.6	861.1	746.3	683.7	532.3	657.6	1539.6	1503.1	683.7	438.4
85°	548.0	495.8	485.4	490.6	412.3	328.8	276.6	339.2	339.2	297.5	250.5
87.5°	193.1	140.9	167.0	187.9	161.8	135.7	109.6	130.5	135.7	130.5	120.0
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: P1211519

CATALOG NUMBER: ARCH4-300-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0	5172.0
2.5°	5192.8	5245.0	5370.3	5479.9	5558.2	5626.0	5662.5	5678.2	5714.7	5719.9	5709.5
5°	5234.6	5370.3	5558.2	5719.9	5808.7	5845.2	5855.6	5860.9	5845.2	5855.6	5845.2
7.5°	5344.2	5516.4	5782.6	5923.5	5939.1	5881.7	5887.0	5866.1	5887.0	5907.8	5907.8
10°	5511.2	5730.4	5980.9	6033.1	5965.2	5933.9	5996.5	6121.8	6163.6	6221.0	6221.0
12.5°	5730.4	5991.3	6168.8	6121.8	6059.2	6163.6	6346.2	6471.5	6513.2	6534.1	6518.4
15°	5980.9	6262.7	6351.4	6194.9	6309.7	6534.1	6596.7	6523.7	6419.3	6372.3	6398.4
17.5°	6299.2	6534.1	6481.9	6377.5	6638.5	6669.8	6466.3	6231.4	6064.4	6001.8	6043.5
20°	6633.3	6836.8	6596.7	6643.7	6805.5	6471.5	6085.3	5782.6	5636.4	5610.3	5652.1
22.5°	6988.1	7118.6	6711.5	6951.6	6711.5	6033.1	5568.6	5412.0	5375.5	5417.2	5453.8
25°	7390.0	7374.3	6909.9	7045.6	6361.9	5495.5	5218.9	5208.5	5208.5	5234.6	5286.8
27.5°	7844.0	7598.8	7108.2	6920.3	5756.5	5051.9	4999.7	5005.0	4989.3	4994.5	5020.6
30°	8371.2	7901.5	7327.4	6508.0	5078.0	4717.9	4697.0	4681.4	4644.8	4634.4	4644.8
32.5°	9034.0	8219.8	7551.8	5829.5	4483.1	4373.5	4363.0	4279.5	4190.8	4180.4	4216.9
35°	9874.2	8799.1	7666.6	4978.9	3992.5	3987.3	3950.7	3820.3	3705.4	3705.4	3679.3
37.5°	10834.5	9545.4	7713.6	4149.0	3585.4	3611.5	3507.1	3340.1	3251.4	3199.2	3214.9
40°	11815.7	10396.1	7708.4	3423.6	3230.5	3235.7	3157.5	2953.9	2734.7	2604.2	2635.6
42.5°	12760.3	11168.5	7572.7	3037.4	2943.5	2927.8	2865.2	2588.6	2405.9	2301.5	2306.8
45°	13517.0	11967.0	7363.9	2807.8	2682.5	2708.6	2567.7	2400.7	2233.7	2139.8	2134.5
47.5°	14273.8	12572.4	7029.9	2666.9	2489.4	2442.5	2385.0	2270.2	2145.0	2040.6	2045.8
50°	14962.7	13089.1	6716.8	2572.9	2312.0	2191.9	2202.4	2134.5	2024.9	1931.0	1925.8
52.5°	15448.0	13428.3	6544.5	2520.7	2098.0	1967.5	2004.1	1967.5	1863.2	1795.3	1790.1
55°	15933.4	13689.2	6601.9	2452.9	1863.2	1758.8	1821.4	1811.0	1753.6	1732.7	1737.9
57.5°	16324.8	13887.6	6805.5	2327.6	1638.7	1576.1	1680.5	1649.2	1607.4	1612.6	1612.6
60°	16705.8	14143.3	7045.6	2040.6	1445.6	1450.9	1550.0	1492.6	1466.5	1513.5	1518.7
62.5°	17102.4	14419.9	6847.2	1623.1	1278.6	1315.2	1430.0	1383.0	1393.5	1461.3	1482.2
65°	17055.5	14393.8	5579.0	1330.8	1132.5	1205.6	1377.8	1362.1	1367.4	1393.5	1403.9
67.5°	16095.2	13475.3	3835.9	1132.5	1028.1	1116.9	1336.0	1273.4	1278.6	1263.0	1268.2
68°	15771.6	13151.7	3381.9	1101.2	1007.3	1096.0	1315.2	1257.8	1263.0	1247.3	1242.1
70°	14007.6	11262.4	2139.8	970.7	934.2	1038.6	1210.8	1189.9	1184.7	1174.3	1174.3
72.5°	10677.9	8313.8	1127.3	840.2	850.7	949.8	1080.3	1122.1	1096.0	1101.2	1132.5
75°	7071.6	4999.7	782.8	720.2	746.3	814.2	960.3	1043.8	1017.7	1033.3	1017.7
77.5°	3742.0	2693.0	626.3	610.6	610.6	657.6	793.3	923.8	923.8	913.3	897.7
80°	1226.4	949.8	501.0	480.1	490.6	516.7	636.7	756.7	772.4	751.5	741.1
82.5°	412.3	438.4	375.8	349.7	360.1	381.0	480.1	579.3	584.5	542.8	532.3
85°	255.7	292.3	234.9	229.6	229.6	234.9	292.3	318.4	292.3	260.9	271.4
87.5°	120.0	146.1	109.6	93.9	78.3	67.8	52.2	20.9	20.9	10.4	10.4
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)