

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: P1211485

Luminaire Tested: **ARCH4-290-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211485
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: ARCH4-290-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39675 lumens
Efficiency: N/A
Efficacy: 137.0 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

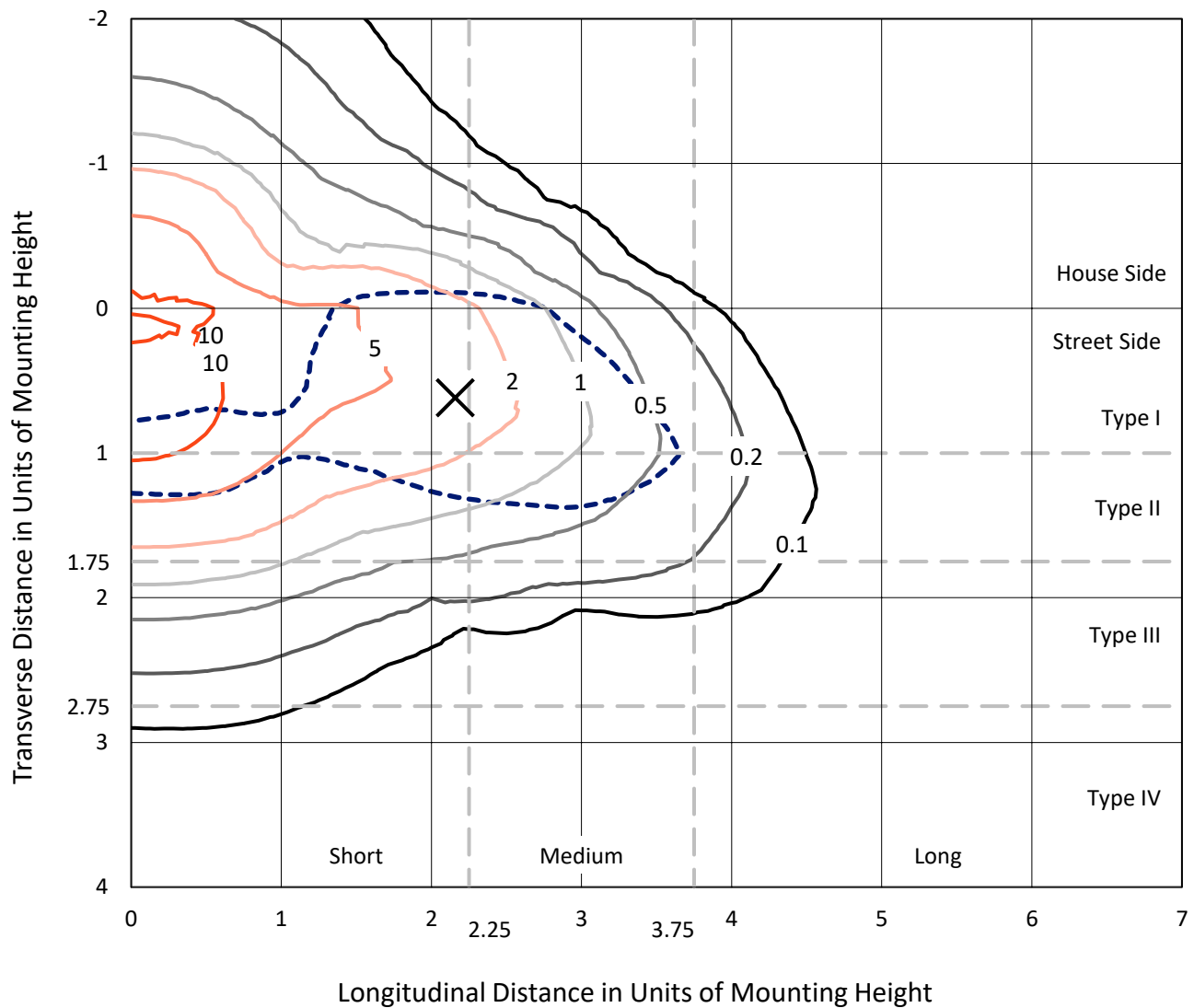


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

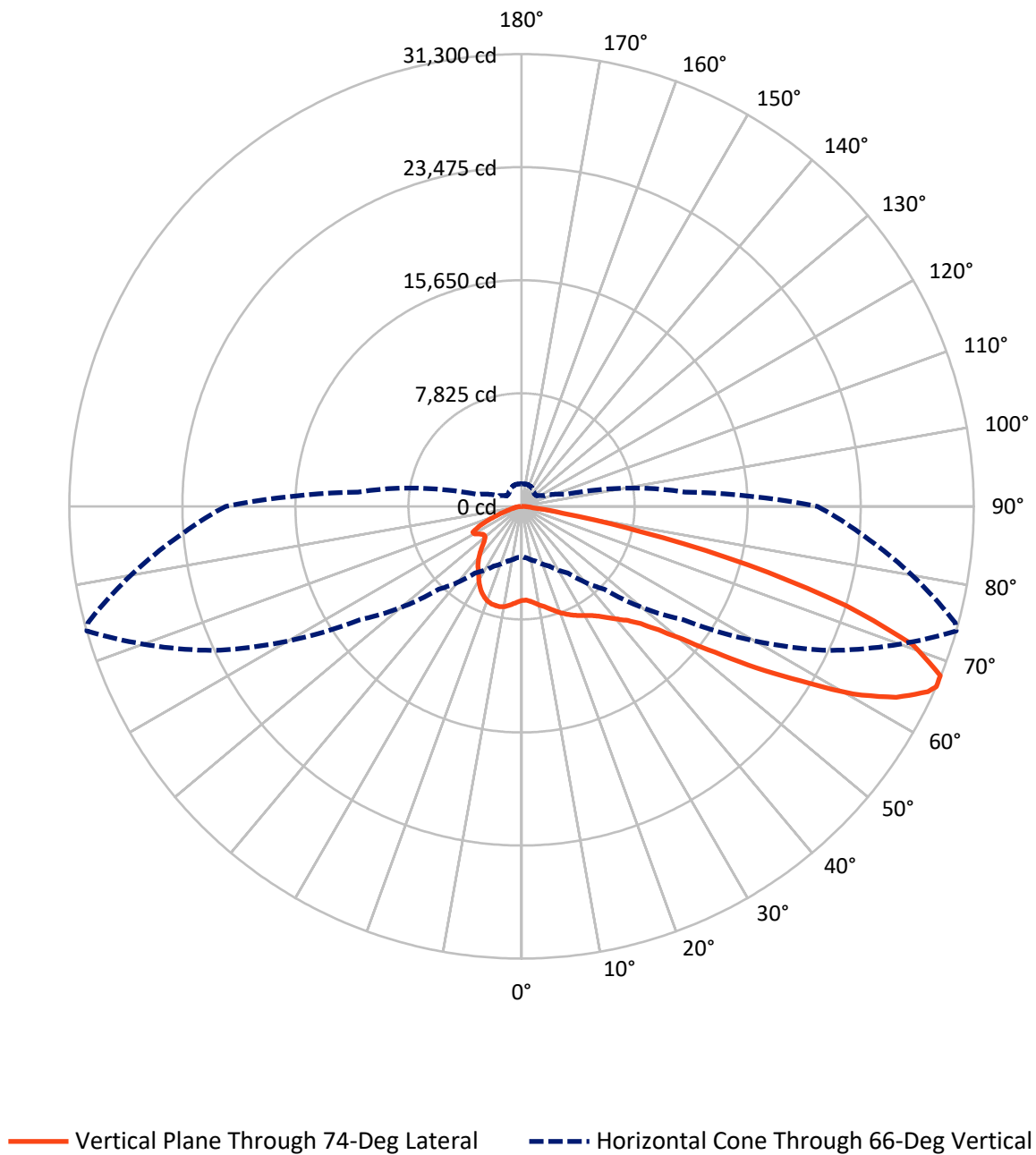


Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9661.9	0.0	9661.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	30013.1	0.0	30013.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	39675.0	0.0	39675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.4	1.6
10°-20°	1907.9	4.8
20°-30°	3580.3	9.0
30°-40°	5507.3	13.9
40°-50°	7407.8	18.7
50°-60°	8760.6	22.1
60°-70°	8104.0	20.4
70°-80°	3409.3	8.6
80°-90°	377.3	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°	39675.0	100.0
0°-180°	39675.0	100.0

Coefficient of Utilization



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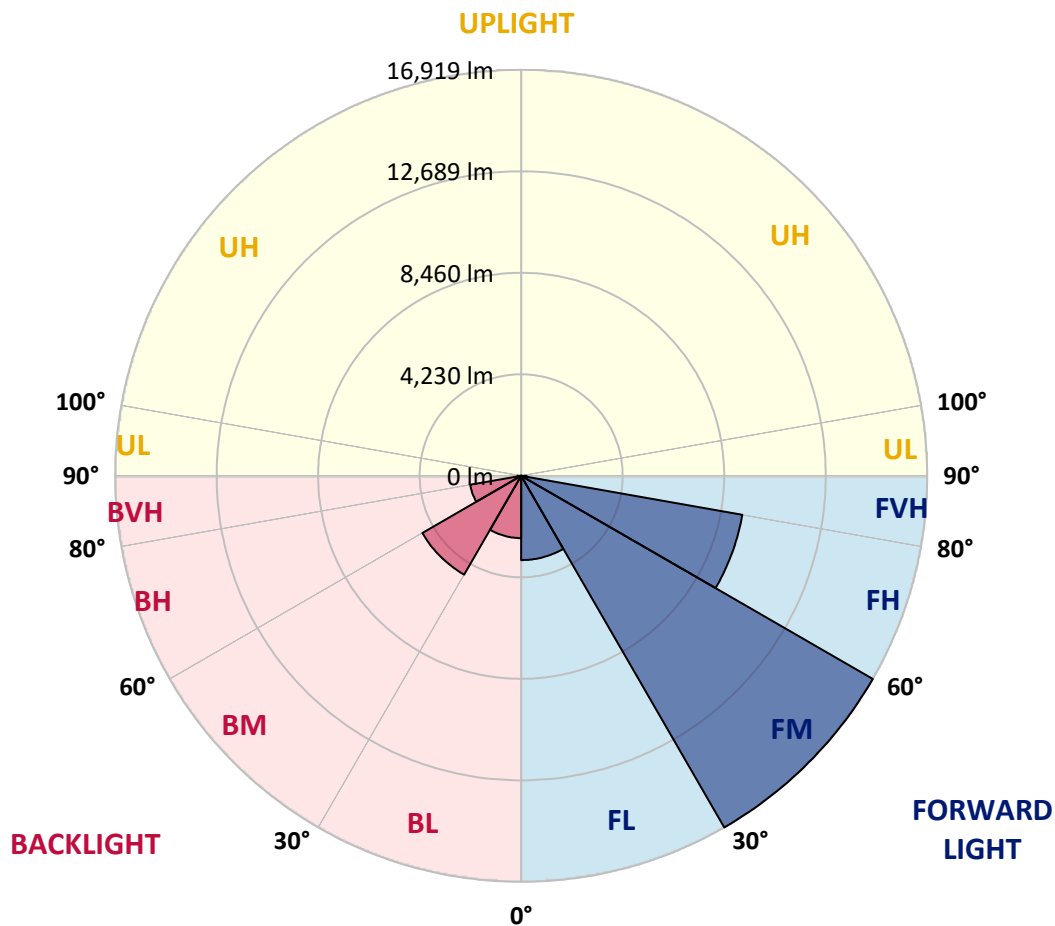
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3511.7	8.9			
FM	(30°-60°)	16919.2	42.6			
FH	(60°-80°)	9356.5	23.6			G4/12000
FVH	(80°-90°)	225.7	0.6			G3/500
BL	(0°-30°)	2596.9	6.5	B4/5000		
BM	(30°-60°)	4756.6	12.0	B3/5000		
BH	(60°-80°)	2156.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	151.6	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°	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1
2.5°	6483.6	6473.4	6493.8	6524.5	6539.8	6514.3	6504.1	6498.9	6498.9	6483.6	6509.2
5°	6177.3	6172.2	6218.2	6274.3	6381.5	6458.1	6560.2	6621.5	6601.1	6570.4	6590.8
7.5°	5779.1	5768.9	5825.1	5932.3	6080.3	6248.8	6498.9	6692.9	6769.5	6759.3	6754.2
10°	5932.3	5922.1	5917.0	5886.3	5937.4	6100.7	6361.1	6703.2	6963.5	6968.6	6973.7
12.5°	6463.2	6488.7	6463.2	6366.2	6253.9	6192.6	6345.8	6728.7	7126.9	7157.5	7285.2
15°	7188.2	7162.6	7111.6	6999.3	6825.7	6641.9	6529.6	6846.1	7361.7	7387.3	7668.0
17.5°	7826.3	7846.7	7816.1	7708.9	7504.7	7264.7	6922.7	7050.3	7611.9	7683.4	8076.5
20°	8520.6	8602.3	8561.5	8428.7	8260.2	7902.9	7474.0	7346.4	7887.6	7938.6	8500.2
22.5°	9322.1	9408.9	9332.3	9204.7	9066.9	8627.8	8076.5	7708.9	8117.3	8224.5	8908.6
25°	10281.9	10363.6	10292.1	10093.0	9919.4	9383.4	8724.8	8117.3	8341.9	8459.4	9240.5
27.5°	11042.6	11103.9	11170.2	11052.8	10787.3	10230.9	9398.7	8541.0	8566.6	8689.1	9546.8
30°	11721.6	11874.7	11930.9	11946.2	11721.6	11098.8	10087.9	8980.1	8760.6	8888.2	9853.1
32.5°	12650.7	12880.5	12788.6	12880.5	12747.7	11915.6	10802.6	9434.4	9010.7	9128.1	10144.1
35°	14008.7	14192.5	13952.6	13881.1	13666.7	12742.6	11491.9	9904.1	9342.6	9470.2	10419.8
37.5°	15468.8	15678.1	15331.0	15045.1	14636.7	13559.5	12084.1	10521.9	9802.0	9904.1	10675.0
40°	16745.1	16918.7	16617.5	16239.7	15555.6	14279.3	12594.6	10955.8	10261.5	10389.1	10971.1
42.5°	17924.4	18036.7	17699.8	17337.3	16423.5	14927.7	13145.9	11415.3	10797.5	10920.1	11211.1
45°	19119.1	19205.8	18736.2	18220.5	17148.4	15519.9	13753.5	12058.5	11583.7	11747.1	11599.1
47.5°	19333.5	19359.0	19277.3	18930.2	17720.2	16086.6	14503.9	12921.3	12783.5	12962.2	12267.8
50°	17847.9	18077.6	18583.0	18925.1	17950.0	16561.3	15254.4	14156.8	14437.6	14667.3	13656.5
52.5°	14963.4	15182.9	16352.0	17648.7	17398.6	16668.5	16061.0	15724.1	16770.7	17046.3	15545.4
55°	11920.7	12114.7	13350.2	15218.7	15616.9	16178.4	16923.8	17725.3	19747.0	19930.8	17618.1
57.5°	9817.3	9924.5	10807.8	12604.8	13242.9	14611.1	17388.4	20104.4	22774.4	23055.2	19420.3
60°	8050.9	8168.4	8826.9	10307.4	11154.9	12370.0	17020.8	22452.8	26388.9	26388.9	21732.9
62.5°	6059.9	6162.0	6774.6	7933.5	9357.9	10470.8	15846.6	24009.9	29115.1	28992.6	23407.4
65°	4160.8	4242.4	4686.6	5457.5	6738.9	8923.9	14243.6	24030.3	30922.3	30759.0	24122.2
66°	3492.0	3563.4	3941.2	4564.1	5641.3	8096.9	13676.9	23596.3	31300.1	31070.4	23821.0
67.5°	2756.8	2807.9	3058.0	3425.6	4135.2	6555.1	12783.5	22366.0	31264.4	31126.5	23055.2
70°	1970.6	2006.4	2190.1	2266.7	2445.4	3793.2	10154.3	19588.7	28757.7	28798.6	20043.1
72.5°	1526.5	1582.6	1694.9	1710.2	1669.4	2016.6	6162.0	16341.8	23524.9	23509.5	14876.6
75°	1230.4	1261.0	1317.1	1347.8	1337.6	1301.8	2608.8	12191.3	16193.8	16382.7	8331.7
77.5°	970.0	964.9	1015.9	1056.8	1087.4	1021.0	1194.6	7147.3	8490.0	8250.0	3129.5
80°	714.7	714.7	786.2	801.5	847.5	857.7	796.4	2756.8	2915.1	2649.6	811.7
82.5°	469.7	469.7	546.3	556.5	602.4	668.8	576.9	827.0	806.6	765.8	367.6
85°	255.3	245.1	270.6	306.3	331.8	393.1	347.2	413.5	423.7	418.6	245.1
87.5°	51.1	45.9	71.5	81.7	91.9	122.5	112.3	168.5	234.8	229.7	107.2
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°	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1
2.5°	6544.9	6539.8	6595.9	6662.3	6738.9	6784.8	6805.3	6841.0	6815.5	6825.7	6856.3
5°	6641.9	6657.2	6738.9	6825.7	6861.4	6835.9	6779.7	6759.3	6713.4	6703.2	6692.9
7.5°	6784.8	6810.4	6892.0	6912.5	6805.3	6626.6	6498.9	6427.5	6350.9	6330.5	6320.3
10°	7019.7	7035.0	7055.4	6846.1	6580.6	6340.7	6182.4	6116.1	6065.0	6024.2	6034.4
12.5°	7315.8	7305.6	7147.3	6713.4	6335.6	6090.5	5983.3	5942.5	5906.7	5881.2	5876.1
15°	7688.5	7617.0	7162.6	6529.6	6105.8	5901.6	5825.1	5809.7	5768.9	5768.9	5763.8
17.5°	8066.2	7882.5	7152.4	6335.6	5886.3	5774.0	5728.1	5717.8	5707.6	5702.5	5717.8
20°	8444.0	8117.3	7070.7	6095.6	5733.2	5666.8	5656.6	5661.7	5651.5	5666.8	5656.6
22.5°	8775.9	8270.5	6917.6	5840.4	5626.0	5620.8	5595.3	5605.5	5641.3	5646.4	5661.7
25°	9031.1	8326.6	6692.9	5605.5	5549.4	5539.2	5569.8	5610.6	5641.3	5646.4	5671.9
27.5°	9240.5	8296.0	6412.2	5421.7	5416.6	5472.8	5564.7	5580.0	5585.1	5585.1	5564.7
30°	9398.7	8229.6	6054.8	5217.5	5243.1	5380.9	5467.7	5467.7	5426.8	5416.6	5447.3
32.5°	9434.4	8142.8	5666.8	5008.2	5049.1	5212.4	5319.6	5283.9	5238.0	5238.0	5258.4
35°	9465.1	8025.4	5355.4	4722.3	4783.6	4977.6	5079.7	5008.2	4957.2	4941.9	4936.7
37.5°	9454.9	7979.5	5074.6	4359.9	4441.5	4630.4	4696.8	4630.4	4553.9	4518.1	4564.1
40°	9465.1	7948.8	4722.3	3961.7	4043.3	4155.6	4242.4	4191.4	4119.9	4028.0	4074.0
42.5°	9526.3	7989.7	4334.3	3573.7	3573.7	3634.9	3783.0	3747.2	3573.7	3537.9	3578.8
45°	9853.1	8209.2	3946.3	3185.7	3129.5	3170.3	3323.5	3170.3	3063.1	3063.1	3098.9
47.5°	10644.4	8617.6	3604.3	2843.6	2710.9	2792.6	2833.4	2690.5	2608.8	2588.3	2624.1
50°	12257.6	9434.4	3400.1	2562.8	2399.5	2460.7	2435.2	2430.1	2348.4	2358.6	2379.0
52.5°	14708.1	11027.3	3338.8	2425.0	2220.8	2236.1	2210.6	2220.8	2205.5	2256.5	2271.8
55°	17378.2	12706.9	3415.4	2445.4	2098.2	1991.0	2001.2	2052.3	2113.6	2195.2	2210.6
57.5°	19374.3	13549.3	3614.5	2583.2	1945.1	1781.7	1807.2	1904.2	2021.7	2088.0	2123.8
60°	20859.9	13447.2	3905.5	2619.0	1761.3	1592.8	1638.8	1781.7	1883.8	1940.0	1975.7
62.5°	21344.9	12809.0	3977.0	2358.6	1521.4	1414.1	1526.5	1674.5	1720.5	1781.7	1807.2
65°	20946.7	11905.4	3456.2	1914.5	1337.6	1281.4	1444.8	1557.1	1618.4	1649.0	1654.1
66°	20477.0	11364.2	3175.4	1740.9	1271.2	1240.6	1414.1	1506.0	1567.3	1562.2	1567.3
67.5°	19445.8	10230.9	2721.1	1495.8	1174.2	1179.3	1363.1	1424.4	1444.8	1429.5	1429.5
70°	15938.5	7203.5	1950.2	1133.4	1031.3	1102.7	1225.3	1240.6	1286.5	1266.1	1266.1
72.5°	9827.6	3537.9	1306.9	867.9	918.9	1031.3	1026.1	1077.2	1184.4	1215.0	1235.5
75°	4829.5	1434.6	862.8	735.2	821.9	862.8	852.6	980.2	1133.4	1266.1	1312.0
77.5°	1832.8	714.7	602.4	643.3	663.7	648.4	679.0	888.3	1133.4	1373.3	1419.3
80°	566.7	495.2	474.8	530.9	500.3	474.8	510.5	735.2	959.8	1041.5	1041.5
82.5°	342.0	388.0	367.6	362.5	336.9	342.0	367.6	525.8	740.3	776.0	776.0
85°	239.9	255.3	209.3	199.1	194.0	188.9	188.9	306.3	439.0	433.9	449.3
87.5°	91.9	102.1	76.6	76.6	71.5	51.1	40.8	51.1	51.1	35.7	25.5
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)