

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: P842025

Luminaire Tested: **ARCH4-260-727-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35639 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 259.2
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

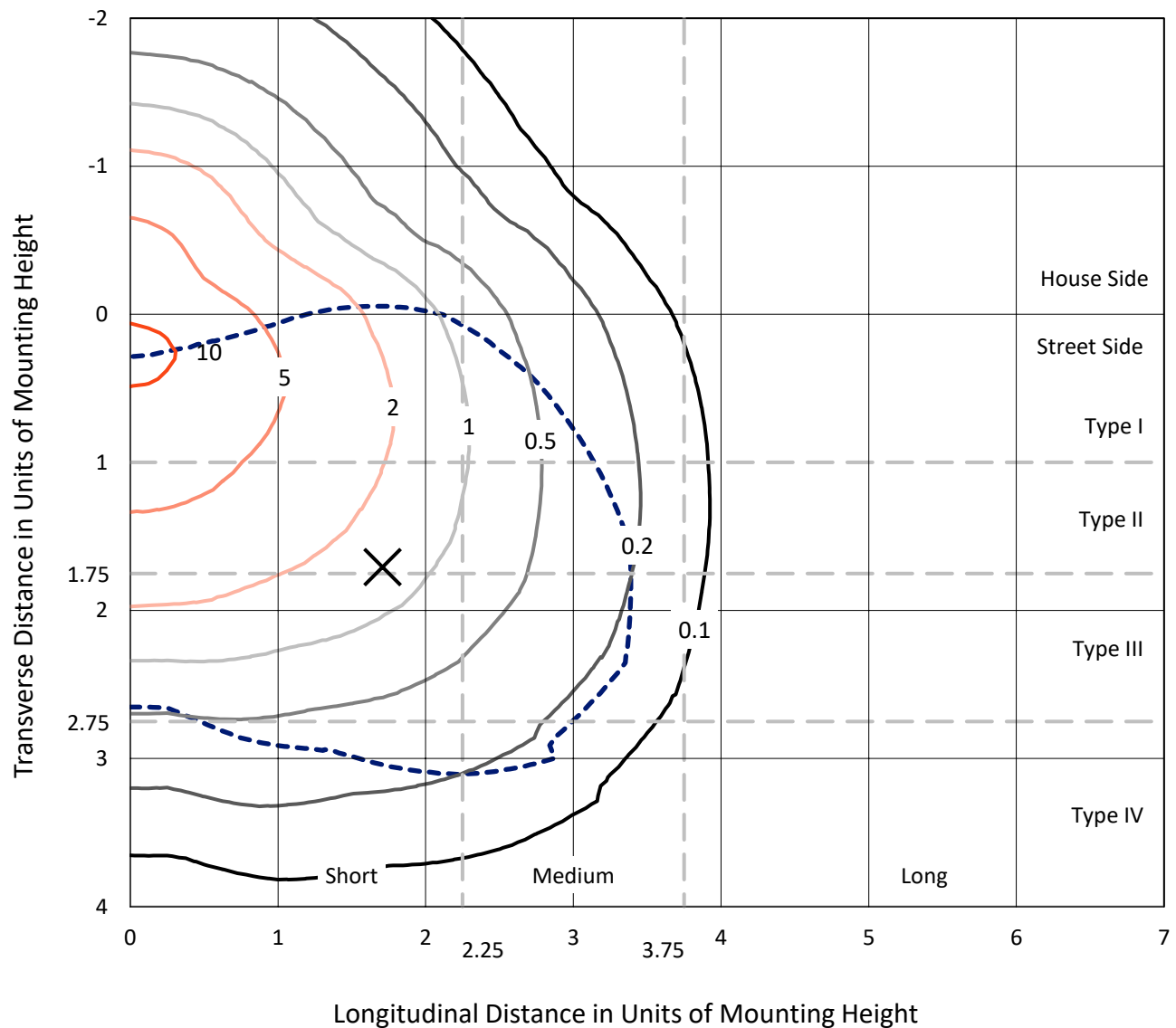


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

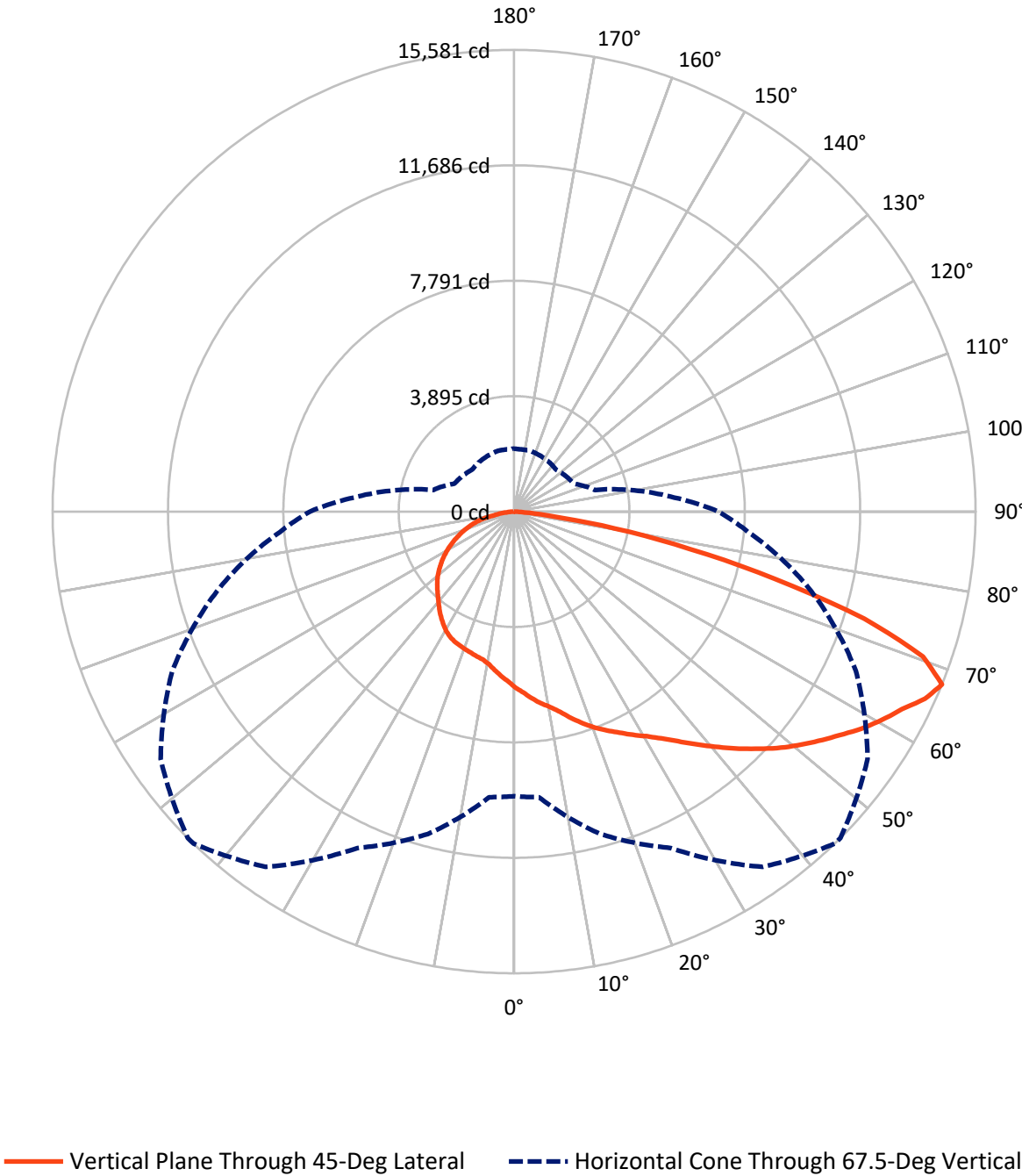


Based on 25 foot mounting height. Maximum calculated value = 11 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9521.0	0.0	9521.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	26118.0	0.0	26118.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	35639.0	0.0	35639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.1	1.6
10°-20°	1758.0	4.9
20°-30°	3034.5	8.5
30°-40°	4474.9	12.6
40°-50°	6062.6	17.0
50°-60°	7409.9	20.8
60°-70°	7642.3	21.4
70°-80°	4185.9	11.7
80°-90°	501.7	1.4
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°	35639.0	100.0
0°-180°	35639.0	100.0

Coefficient of Utilization



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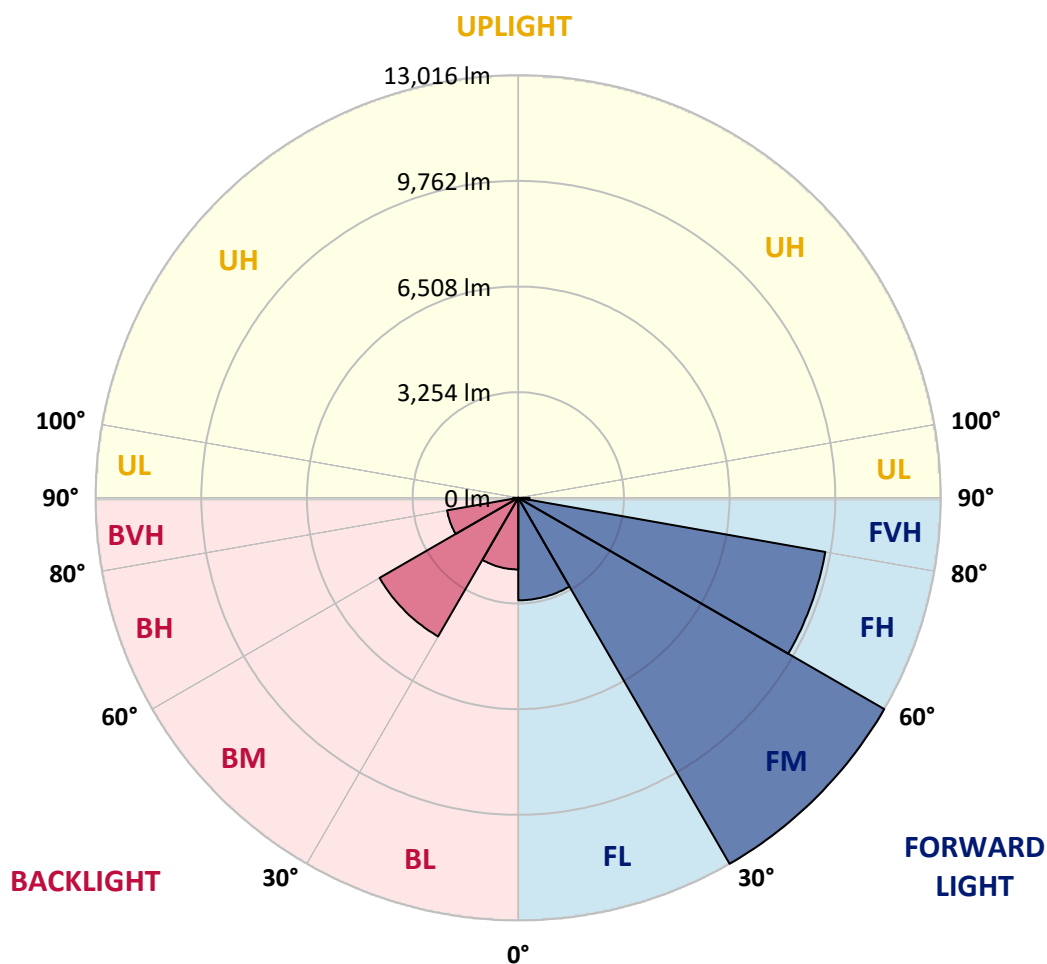
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3155.0	8.9			
FM	(30°-60°)	13015.7	36.5			
FH	(60°-80°)	9601.7	26.9			G4/12000
FVH	(80°-90°)	345.6	1.0			G3/500
BL	(0°-30°)	2206.6	6.2	B3/2500		
BM	(30°-60°)	4931.7	13.8	B3/5000		
BH	(60°-80°)	2226.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	156.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9
2.5°	6204.2	6198.8	6209.6	6171.7	6122.9	6117.5	6117.5	6084.9	6047.0	5971.0	5911.4
5°	6497.1	6486.2	6491.7	6437.4	6372.3	6339.8	6334.4	6263.9	6177.1	6057.8	5949.3
7.5°	6768.2	6757.4	6752.0	6692.3	6594.7	6540.5	6535.0	6432.0	6329.0	6144.6	5987.3
10°	7023.1	7012.3	7001.4	6920.1	6800.8	6719.4	6708.6	6578.4	6448.3	6220.5	6019.8
12.5°	7348.5	7326.8	7316.0	7218.4	7044.8	6958.1	6941.8	6768.2	6605.5	6329.0	6084.9
15°	7690.2	7673.9	7657.7	7565.5	7370.2	7256.3	7229.2	7012.3	6789.9	6470.0	6182.5
17.5°	7945.1	7928.8	7928.8	7847.5	7668.5	7538.4	7516.7	7256.3	6979.8	6600.1	6258.5
20°	8102.4	8086.1	8102.4	8053.6	7918.0	7809.5	7787.8	7500.4	7169.6	6719.4	6323.5
22.5°	8216.3	8200.0	8227.1	8205.4	8107.8	8042.7	8026.4	7744.4	7364.8	6844.2	6388.6
25°	8416.9	8416.9	8416.9	8379.0	8286.8	8265.1	8265.1	8021.0	7614.3	7006.9	6486.2
27.5°	8818.2	8796.6	8769.4	8661.0	8503.7	8498.3	8530.8	8303.0	7901.7	7218.4	6605.5
30°	9409.4	9398.5	9295.5	9067.7	8802.0	8774.9	8796.6	8606.7	8210.8	7440.7	6741.1
32.5°	10174.1	10136.1	9924.6	9582.9	9203.3	9078.6	9121.9	8921.3	8536.2	7668.5	6871.3
35°	10716.4	10727.2	10575.4	10266.3	9816.1	9485.3	9517.8	9273.8	8888.7	7923.4	7034.0
37.5°	11340.1	11378.0	11150.3	10917.1	10499.5	9935.4	9968.0	9637.2	9241.3	8243.4	7207.5
40°	12202.4	12126.4	11741.4	11464.8	11003.8	10407.3	10434.4	10043.9	9648.0	8547.1	7408.2
42.5°	12923.7	12788.1	12321.7	11969.2	11416.0	10906.2	10933.3	10483.2	10060.2	8883.3	7630.5
45°	13959.5	13585.3	12912.8	12739.3	11839.0	11394.3	11421.4	10949.6	10494.0	9241.3	7869.2
47.5°	14561.5	13964.9	13536.5	13444.3	12305.4	11898.7	11931.2	11443.1	10960.4	9648.0	8118.6
50°	14523.5	14138.5	14013.7	13786.0	12717.6	12370.5	12403.0	11952.9	11432.3	10049.3	8357.3
52.5°	14274.1	14344.6	14279.5	13899.9	13129.7	12826.0	12864.0	12457.3	11914.9	10423.5	8579.6
55°	14659.1	14707.9	14583.2	14084.2	13585.3	13281.6	13325.0	12988.7	12392.2	10754.4	8769.4
57.5°	15120.1	14946.5	14821.8	14409.6	14057.1	13775.1	13823.9	13531.1	12804.4	11020.1	8915.9
60°	15098.4	14735.0	14859.8	14431.3	14377.1	14230.7	14274.1	13975.8	13118.9	11215.3	8975.5
62.5°	13986.6	13791.4	14420.5	14274.1	14637.4	14637.4	14691.7	14246.9	13308.7	11296.7	8943.0
65°	12055.9	12066.8	13173.1	13780.5	14946.5	15196.0	15239.4	14415.1	13200.3	11058.1	8639.3
67.5°	9604.6	9675.1	11264.1	12527.8	14637.4	15575.6	15581.1	14566.9	12733.8	10385.6	7934.3
70°	7028.6	7082.8	8959.3	10494.0	13178.6	14735.0	14648.3	14138.5	11719.7	9214.1	6833.3
72.5°	4750.8	4799.6	6730.3	8059.0	10814.0	12549.5	12359.6	12495.2	9989.7	7570.9	5493.8
75°	3194.3	3254.0	4788.8	5764.9	7955.9	9528.7	9105.7	9463.6	7728.2	5732.4	4007.8
77.5°	2012.0	2050.0	3042.5	3780.0	5434.1	6486.2	6063.2	6068.6	4452.5	3085.8	2153.0
80°	1279.9	1290.7	1843.9	2180.2	3145.5	3899.3	3449.2	2803.8	2006.6	1637.8	1285.3
82.5°	743.0	726.7	1100.9	1231.1	1496.8	1480.6	1225.7	1160.6	878.6	818.9	656.2
85°	298.3	276.6	482.7	450.1	455.6	482.7	357.9	357.9	287.4	222.4	162.7
87.5°	59.7	59.7	65.1	59.7	59.7	65.1	48.8	48.8	43.4	43.4	43.4
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°	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9	5943.9
2.5°	5900.5	5889.7	5862.6	5792.1	5754.1	5732.4	5699.9	5689.0	5683.6	5689.0	5705.3
5°	5916.8	5878.8	5802.9	5689.0	5613.1	5564.3	5510.0	5488.4	5472.1	5472.1	5488.4
7.5°	5927.6	5868.0	5737.8	5569.7	5461.2	5385.3	5320.2	5293.1	5287.7	5304.0	5309.4
10°	5933.1	5846.3	5661.9	5450.4	5309.4	5211.8	5146.7	5130.4	5146.7	5179.2	5184.7
12.5°	5971.0	5851.7	5618.5	5369.0	5200.9	5103.3	5054.5	5054.5	5097.9	5157.5	5163.0
15°	6036.1	5889.7	5596.8	5304.0	5130.4	5043.6	5027.4	5054.5	5119.6	5211.8	5222.6
17.5°	6084.9	5911.4	5548.0	5217.2	5038.2	4984.0	5011.1	5076.2	5168.4	5293.1	5304.0
20°	6117.5	5911.4	5477.5	5114.1	4946.0	4935.2	5011.1	5114.1	5211.8	5358.2	5374.5
22.5°	6150.0	5900.5	5396.2	4989.4	4843.0	4875.5	5016.5	5146.7	5244.3	5401.6	5428.7
25°	6209.6	5916.8	5314.8	4864.7	4734.5	4826.7	5011.1	5168.4	5271.4	5434.1	5477.5
27.5°	6291.0	5954.8	5255.2	4750.8	4626.1	4750.8	4973.1	5163.0	5271.4	5428.7	5477.5
30°	6377.8	5998.1	5184.7	4626.1	4501.3	4642.3	4891.8	5103.3	5228.0	5374.5	5434.1
32.5°	6470.0	6047.0	5125.0	4490.5	4349.5	4495.9	4772.5	5011.1	5146.7	5282.3	5347.3
35°	6594.7	6133.7	5092.5	4382.0	4213.9	4344.0	4620.6	4891.8	5038.2	5163.0	5238.9
37.5°	6746.6	6242.2	5076.2	4273.5	4067.5	4175.9	4457.9	4745.4	4902.6	5005.7	5076.2
40°	6920.1	6377.8	5070.8	4170.5	3921.0	4002.4	4289.8	4577.2	4729.1	4810.4	4870.1
42.5°	7115.3	6529.6	5059.9	4067.5	3774.6	3839.7	4127.1	4409.1	4539.3	4609.8	4664.0
45°	7321.4	6681.5	5038.2	3942.7	3617.3	3693.3	3959.0	4208.5	4344.0	4403.7	4463.4
47.5°	7527.5	6833.3	4994.8	3801.7	3476.3	3546.8	3780.0	3997.0	4105.4	4159.7	4219.3
50°	7728.2	6968.9	4891.8	3639.0	3329.9	3395.0	3573.9	3720.4	3801.7	3845.1	3904.8
52.5°	7907.1	7061.1	4745.4	3449.2	3183.5	3216.0	3335.3	3460.0	3525.1	3530.6	3584.8
55°	8059.0	7109.9	4533.9	3254.0	3026.2	3031.6	3096.7	3194.3	3221.4	3199.7	3237.7
57.5°	8145.8	7082.8	4300.7	3053.3	2863.5	2841.8	2890.6	2939.4	2944.8	2890.6	2928.6
60°	8167.5	6958.1	3997.0	2852.6	2700.8	2641.1	2657.4	2646.6	2635.7	2614.0	2646.6
62.5°	8059.0	6692.3	3660.7	2657.4	2527.2	2435.1	2429.6	2424.2	2440.5	2445.9	2451.3
65°	7663.1	6193.4	3259.4	2456.7	2342.9	2218.1	2212.7	2277.8	2299.5	2266.9	2277.8
67.5°	6898.4	5428.7	2820.1	2223.5	2109.7	2001.2	2044.6	2082.5	2120.5	2109.7	2120.5
70°	5813.8	4457.9	2418.8	1963.2	1854.8	1795.1	1843.9	1876.5	1881.9	1871.0	1881.9
72.5°	4571.8	3481.7	2044.6	1697.5	1599.9	1572.7	1632.4	1659.5	1708.3	1730.0	1735.4
75°	3302.8	2570.6	1675.8	1410.1	1328.7	1328.7	1382.9	1431.7	1475.1	1448.0	1431.7
77.5°	1843.9	1534.8	1204.0	970.8	987.0	1063.0	1084.7	1138.9	1182.3	1176.9	1166.0
80°	1117.2	959.9	813.5	629.1	623.7	683.3	824.3	916.5	938.2	889.4	884.0
82.5°	580.3	504.4	433.9	352.5	390.5	455.6	477.2	574.9	634.5	612.8	639.9
85°	146.4	141.0	157.3	162.7	200.7	222.4	244.0	287.4	189.8	92.2	92.2
87.5°	43.4	43.4	54.2	54.2	70.5	86.8	81.3	81.3	43.4	5.4	0.0
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)