

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: P842052

Luminaire Tested: **ARCH4-260-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842052
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: ARCH4-260-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38778 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - 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

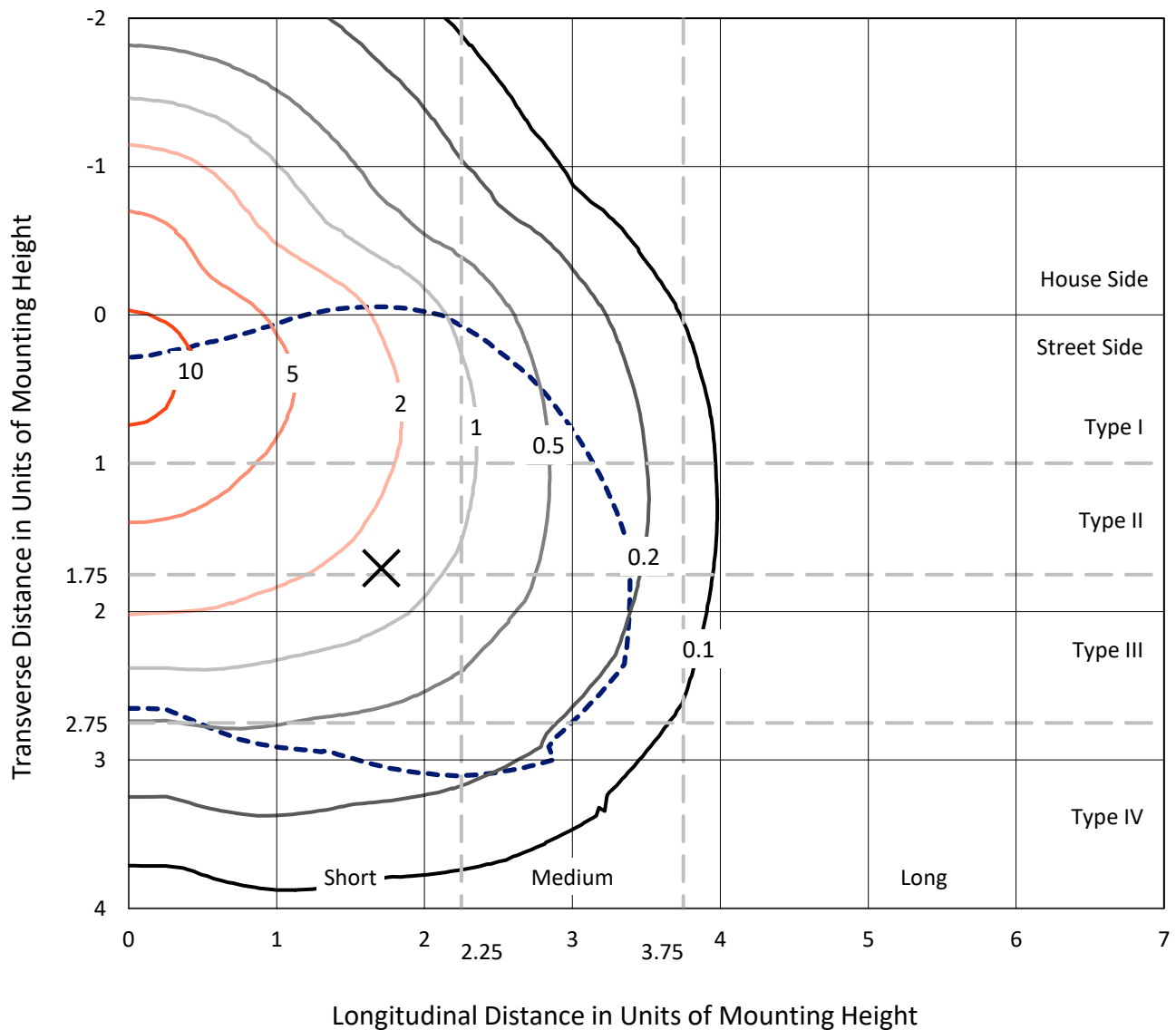


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

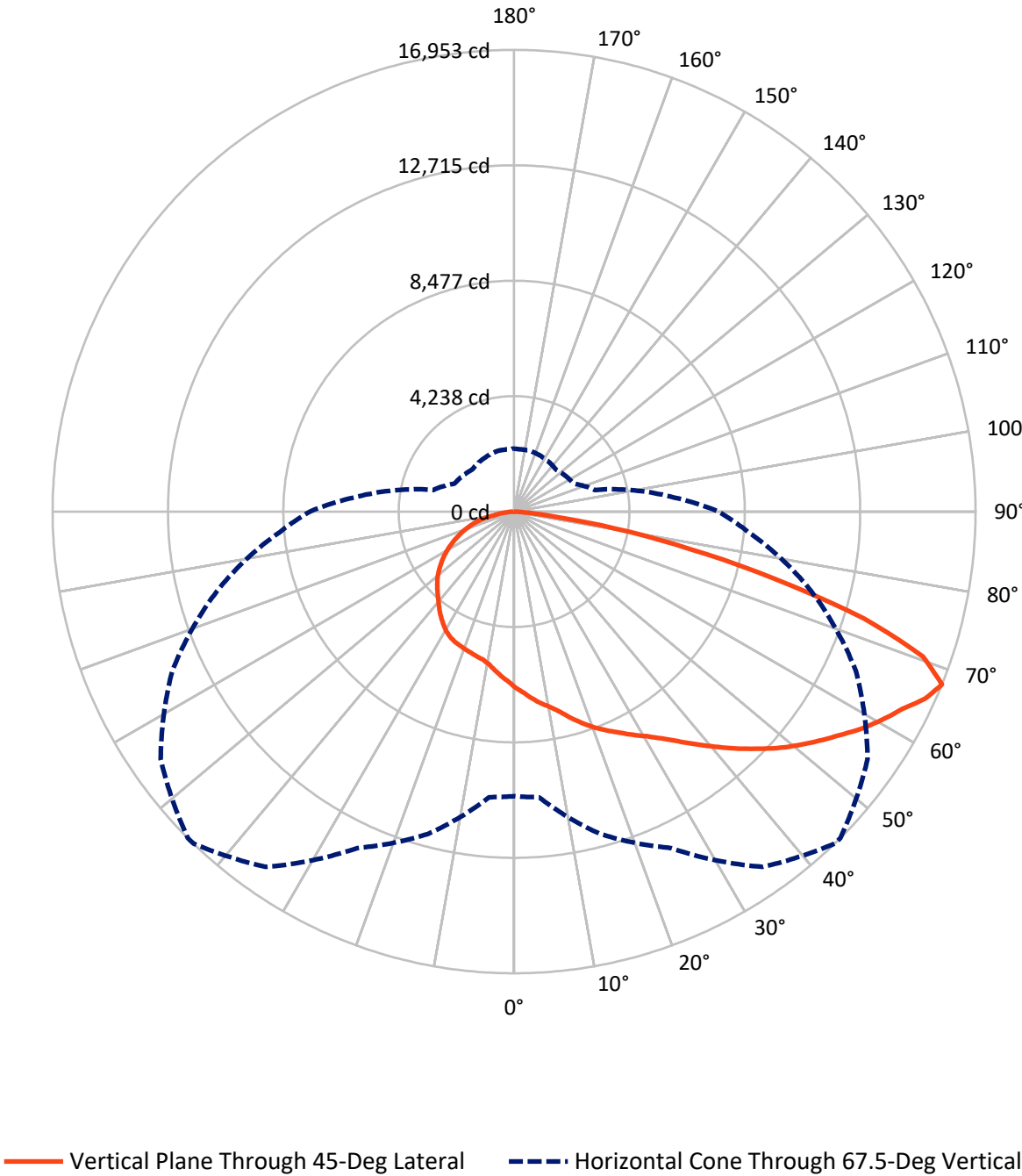


Based on 25 foot mounting height. Maximum calculated value = 12 fc

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	10359.6	0.0	10359.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	28418.4	0.0	28418.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	38778.0	0.0	38778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.2	1.6
10°-20°	1912.9	4.9
20°-30°	3301.8	8.5
30°-40°	4869.0	12.6
40°-50°	6596.6	17.0
50°-60°	8062.6	20.8
60°-70°	8315.4	21.4
70°-80°	4554.6	11.7
80°-90°	545.9	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°	38778.0	100.0
0°-180°	38778.0	100.0

Coefficient of Utilization



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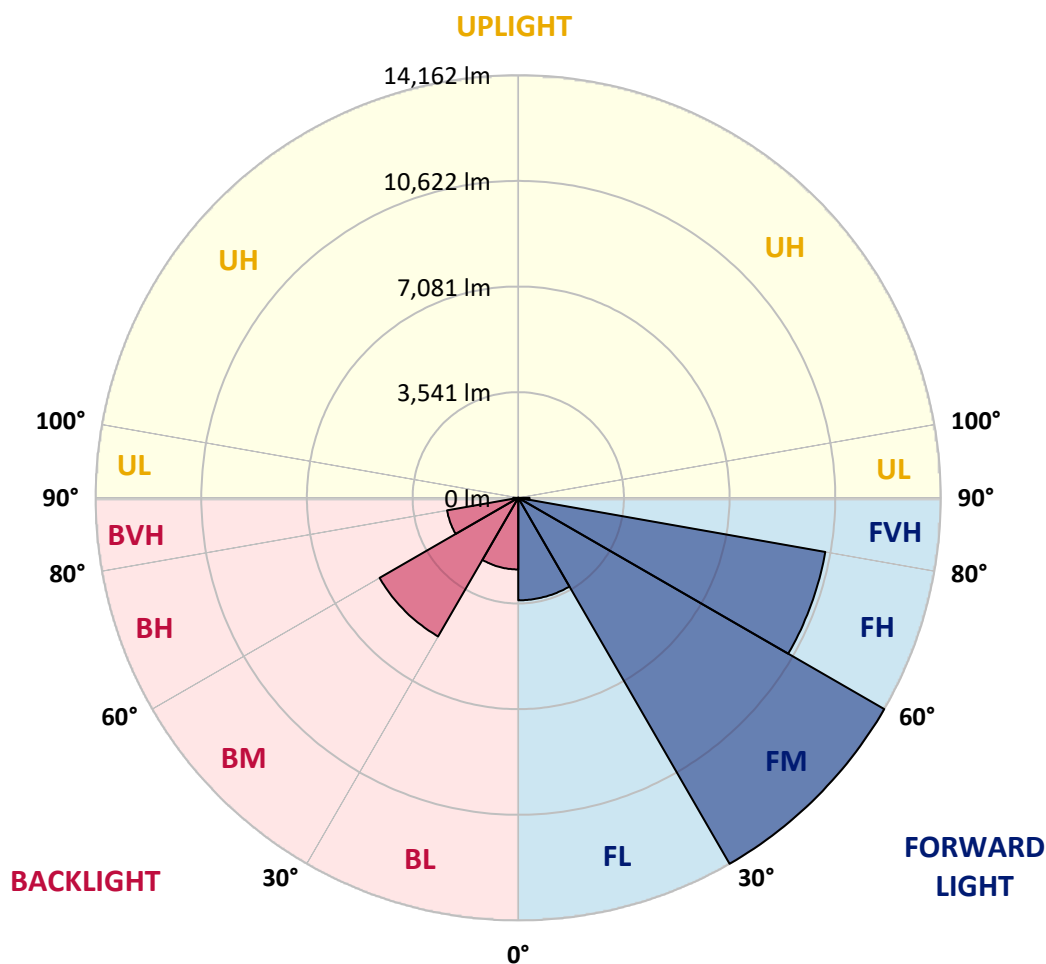
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3432.9	8.9			
FM	(30°-60°)	14162.1	36.5			
FH	(60°-80°)	10447.4	26.9			G4/12000
FVH	(80°-90°)	376.1	1.0			G3/500
BL	(0°-30°)	2401.0	6.2	B3/2500		
BM	(30°-60°)	5366.1	13.8	B4/8500		
BH	(60°-80°)	2422.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	169.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4
2.5°	6750.7	6744.8	6756.6	6715.3	6662.2	6656.3	6656.3	6620.9	6579.6	6496.9	6432.0
5°	7069.3	7057.5	7063.4	7004.4	6933.6	6898.2	6892.3	6815.6	6721.2	6591.4	6473.3
7.5°	7364.4	7352.6	7346.7	7281.8	7175.5	7116.5	7110.6	6998.5	6886.4	6685.8	6514.6
10°	7641.7	7629.9	7618.1	7529.6	7399.8	7311.3	7299.5	7157.8	7016.2	6768.4	6550.0
12.5°	7995.8	7972.2	7960.4	7854.2	7665.3	7570.9	7553.2	7364.4	7187.4	6886.4	6620.9
15°	8367.5	8349.8	8332.1	8231.8	8019.4	7895.5	7866.0	7629.9	7388.0	7039.8	6727.1
17.5°	8644.9	8627.2	8627.2	8538.7	8343.9	8202.3	8178.7	7895.5	7594.5	7181.4	6809.7
20°	8816.0	8798.3	8816.0	8762.9	8615.4	8497.4	8473.8	8161.0	7801.0	7311.3	6880.5
22.5°	8939.9	8922.2	8951.7	8928.1	8821.9	8751.1	8733.4	8426.5	8013.5	7447.0	6951.3
25°	9158.3	9158.3	9158.3	9117.0	9016.6	8993.0	8993.0	8727.5	8284.9	7624.0	7057.5
27.5°	9594.9	9571.3	9541.8	9423.8	9252.7	9246.8	9282.2	9034.3	8597.7	7854.2	7187.4
30°	10238.1	10226.3	10114.2	9866.4	9577.2	9547.7	9571.3	9364.8	8934.0	8096.1	7334.9
32.5°	11070.2	11028.9	10798.7	10427.0	10013.9	9878.2	9925.4	9707.1	9288.1	8343.9	7476.5
35°	11660.3	11672.1	11506.8	11170.5	10680.7	10320.8	10356.2	10090.6	9671.6	8621.3	7653.5
37.5°	12338.9	12380.2	12132.3	11878.6	11424.2	10810.5	10845.9	10486.0	10055.2	8969.4	7842.4
40°	13277.1	13194.5	12775.5	12474.6	11973.0	11323.9	11353.4	10928.5	10497.8	9299.9	8060.7
42.5°	14062.0	13914.4	13406.9	13023.4	12421.5	11866.8	11896.3	11406.5	10946.3	9665.7	8302.6
45°	15189.0	14781.9	14050.1	13861.3	12881.8	12397.9	12427.4	11914.0	11418.3	10055.2	8562.3
47.5°	15844.0	15194.9	14728.8	14628.4	13389.2	12946.7	12982.1	12451.0	11925.8	10497.8	8833.7
50°	15802.7	15383.8	15248.0	15000.2	13837.7	13460.1	13495.5	13005.7	12439.2	10934.4	9093.4
52.5°	15531.3	15608.0	15537.2	15124.1	14286.2	13955.7	13997.0	13554.5	12964.4	11341.6	9335.3
55°	15950.3	16003.4	15867.6	15324.8	14781.9	14451.4	14498.6	14132.8	13483.7	11701.6	9541.8
57.5°	16451.8	16263.0	16127.3	15678.8	15295.2	14988.4	15041.5	14722.9	13932.1	11990.7	9701.2
60°	16428.2	16032.9	16168.6	15702.4	15643.4	15484.1	15531.3	15206.7	14274.4	12203.2	9766.1
62.5°	15218.5	15006.1	15690.6	15531.3	15926.6	15926.6	15985.7	15501.8	14480.9	12291.7	9730.7
65°	13117.8	13129.6	14333.4	14994.3	16263.0	16534.4	16581.7	15684.7	14362.9	12032.0	9400.2
67.5°	10450.6	10527.3	12256.3	13631.2	15926.6	16947.5	16953.4	15849.9	13855.4	11300.3	8633.1
70°	7647.6	7706.6	9748.4	11418.3	14339.3	16032.9	15938.5	15383.8	12751.9	10025.7	7435.2
72.5°	5169.2	5222.3	7323.1	8768.8	11766.5	13654.8	13448.3	13595.8	10869.5	8237.7	5977.7
75°	3475.7	3540.6	5210.5	6272.7	8656.7	10368.0	9907.7	10297.1	8408.8	6237.3	4360.8
77.5°	2189.3	2230.6	3310.4	4113.0	5912.7	7057.5	6597.3	6603.2	4844.7	3357.6	2342.7
80°	1392.6	1404.4	2006.3	2372.2	3422.5	4242.8	3753.0	3050.8	2183.3	1782.1	1398.5
82.5°	808.4	790.7	1197.9	1339.5	1628.7	1611.0	1333.6	1262.8	956.0	891.0	714.0
85°	324.6	300.9	525.2	489.8	495.7	525.2	389.5	389.5	312.8	241.9	177.0
87.5°	64.9	64.9	70.8	64.9	64.9	70.8	53.1	53.1	47.2	47.2	47.2
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°	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4	6467.4
2.5°	6420.2	6408.4	6378.9	6302.2	6260.9	6237.3	6201.9	6190.1	6184.2	6190.1	6207.8
5°	6437.9	6396.6	6314.0	6190.1	6107.5	6054.4	5995.4	5971.8	5954.1	5954.1	5971.8
7.5°	6449.7	6384.8	6243.2	6060.3	5942.3	5859.6	5788.8	5759.3	5753.4	5771.1	5777.0
10°	6455.6	6361.2	6160.6	5930.4	5777.0	5670.8	5600.0	5582.3	5600.0	5635.4	5641.3
12.5°	6496.9	6367.1	6113.4	5841.9	5659.0	5552.8	5499.7	5499.7	5546.9	5611.8	5617.7
15°	6567.8	6408.4	6089.8	5771.1	5582.3	5487.9	5470.2	5499.7	5570.5	5670.8	5682.6
17.5°	6620.9	6432.0	6036.7	5676.7	5482.0	5423.0	5452.5	5523.3	5623.6	5759.3	5771.1
20°	6656.3	6432.0	5960.0	5564.6	5381.7	5369.9	5452.5	5564.6	5670.8	5830.1	5847.8
22.5°	6691.7	6420.2	5871.4	5428.9	5269.5	5304.9	5458.4	5600.0	5706.2	5877.3	5906.8
25°	6756.6	6437.9	5782.9	5293.1	5151.5	5251.8	5452.5	5623.6	5735.7	5912.7	5960.0
27.5°	6845.1	6479.2	5718.0	5169.2	5033.5	5169.2	5411.2	5617.7	5735.7	5906.8	5960.0
30°	6939.5	6526.4	5641.3	5033.5	4897.8	5051.2	5322.7	5552.8	5688.5	5847.8	5912.7
32.5°	7039.8	6579.6	5576.4	4886.0	4732.6	4891.9	5192.8	5452.5	5600.0	5747.5	5818.3
35°	7175.5	6674.0	5541.0	4768.0	4585.0	4726.7	5027.6	5322.7	5482.0	5617.7	5700.3
37.5°	7340.8	6792.0	5523.3	4649.9	4425.7	4543.7	4850.6	5163.3	5334.5	5446.6	5523.3
40°	7529.6	6939.5	5517.4	4537.8	4266.4	4354.9	4667.6	4980.4	5145.6	5234.1	5299.0
42.5°	7742.0	7104.7	5505.6	4425.7	4107.1	4177.9	4490.6	4797.5	4939.1	5015.8	5074.8
45°	7966.3	7270.0	5482.0	4290.0	3935.9	4018.5	4307.7	4579.1	4726.7	4791.6	4856.5
47.5°	8190.5	7435.2	5434.8	4136.6	3782.5	3859.2	4113.0	4349.0	4467.0	4526.0	4590.9
50°	8408.8	7582.7	5322.7	3959.5	3623.2	3694.0	3888.7	4048.0	4136.6	4183.8	4248.7
52.5°	8603.6	7683.0	5163.3	3753.0	3463.9	3499.3	3629.1	3764.8	3835.6	3841.5	3900.5
55°	8768.8	7736.1	4933.2	3540.6	3292.7	3298.6	3369.4	3475.7	3505.2	3481.6	3522.9
57.5°	8863.2	7706.6	4679.4	3322.2	3115.7	3092.1	3145.2	3198.3	3204.2	3145.2	3186.5
60°	8886.8	7570.9	4349.0	3103.9	2938.7	2873.8	2891.5	2879.7	2867.9	2844.3	2879.7
62.5°	8768.8	7281.8	3983.1	2891.5	2749.8	2649.5	2643.6	2637.7	2655.4	2661.3	2667.2
65°	8338.0	6738.9	3546.5	2673.1	2549.2	2413.5	2407.6	2478.4	2502.0	2466.6	2478.4
67.5°	7506.0	5906.8	3068.5	2419.4	2295.5	2177.4	2224.7	2266.0	2307.3	2295.5	2307.3
70°	6325.8	4850.6	2631.8	2136.1	2018.1	1953.2	2006.3	2041.7	2047.6	2035.8	2047.6
72.5°	4974.5	3788.4	2224.7	1847.0	1740.8	1711.3	1776.2	1805.7	1858.8	1882.4	1888.3
75°	3593.7	2797.0	1823.4	1534.2	1445.7	1445.7	1504.7	1557.8	1605.1	1575.6	1557.8
77.5°	2006.3	1670.0	1310.0	1056.3	1074.0	1156.6	1180.2	1239.2	1286.4	1280.5	1268.7
80°	1215.6	1044.5	885.1	684.5	678.6	743.5	896.9	997.3	1020.9	967.8	961.9
82.5°	631.4	548.8	472.1	383.6	424.9	495.7	519.3	625.5	690.4	666.8	696.3
85°	159.3	153.4	171.1	177.0	218.3	241.9	265.5	312.8	206.5	100.3	100.3
87.5°	47.2	47.2	59.0	59.0	76.7	94.4	88.5	88.5	47.2	5.9	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)