

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: P841580

Luminaire Tested: **ARCH4-200-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27449 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

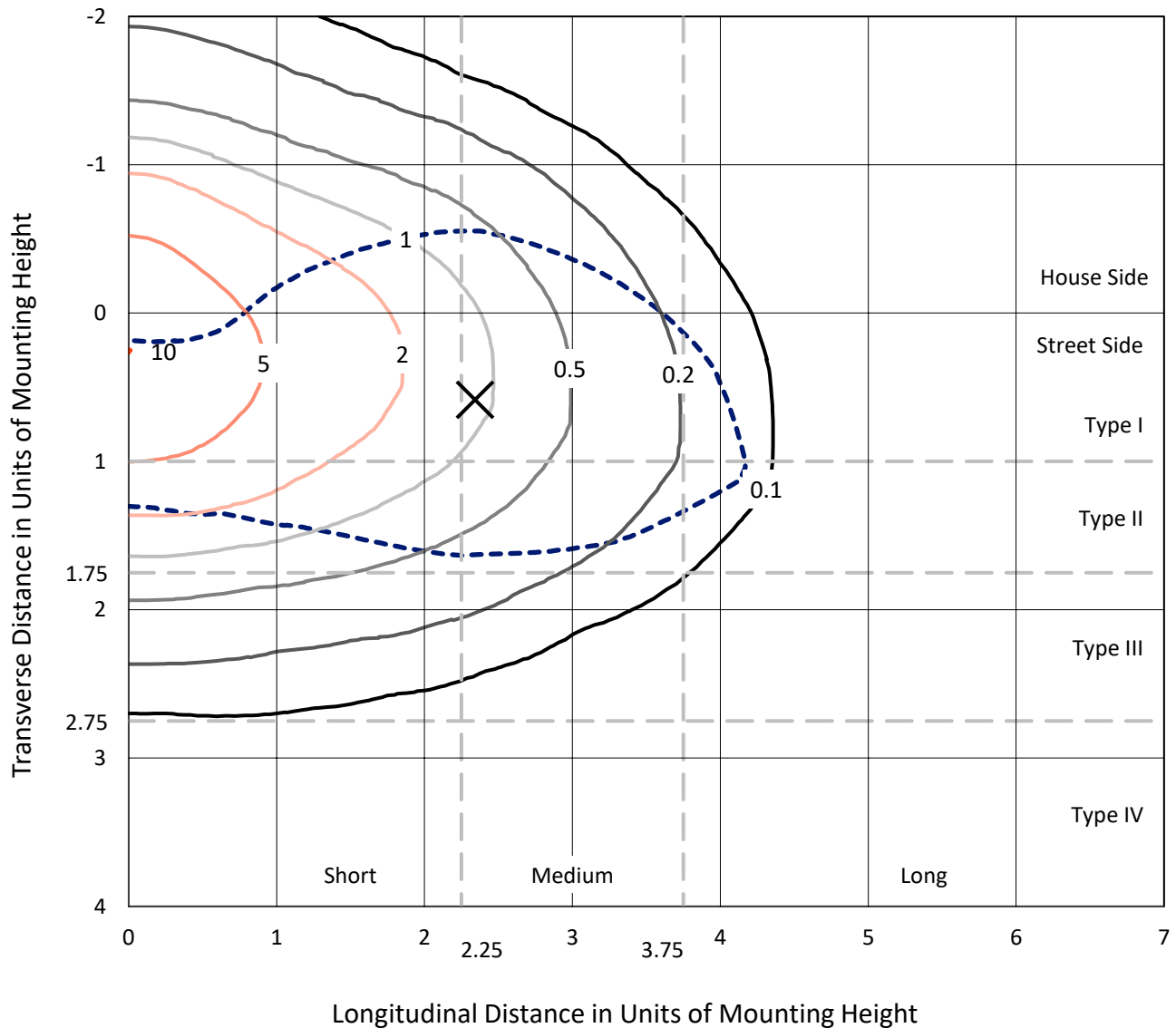
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

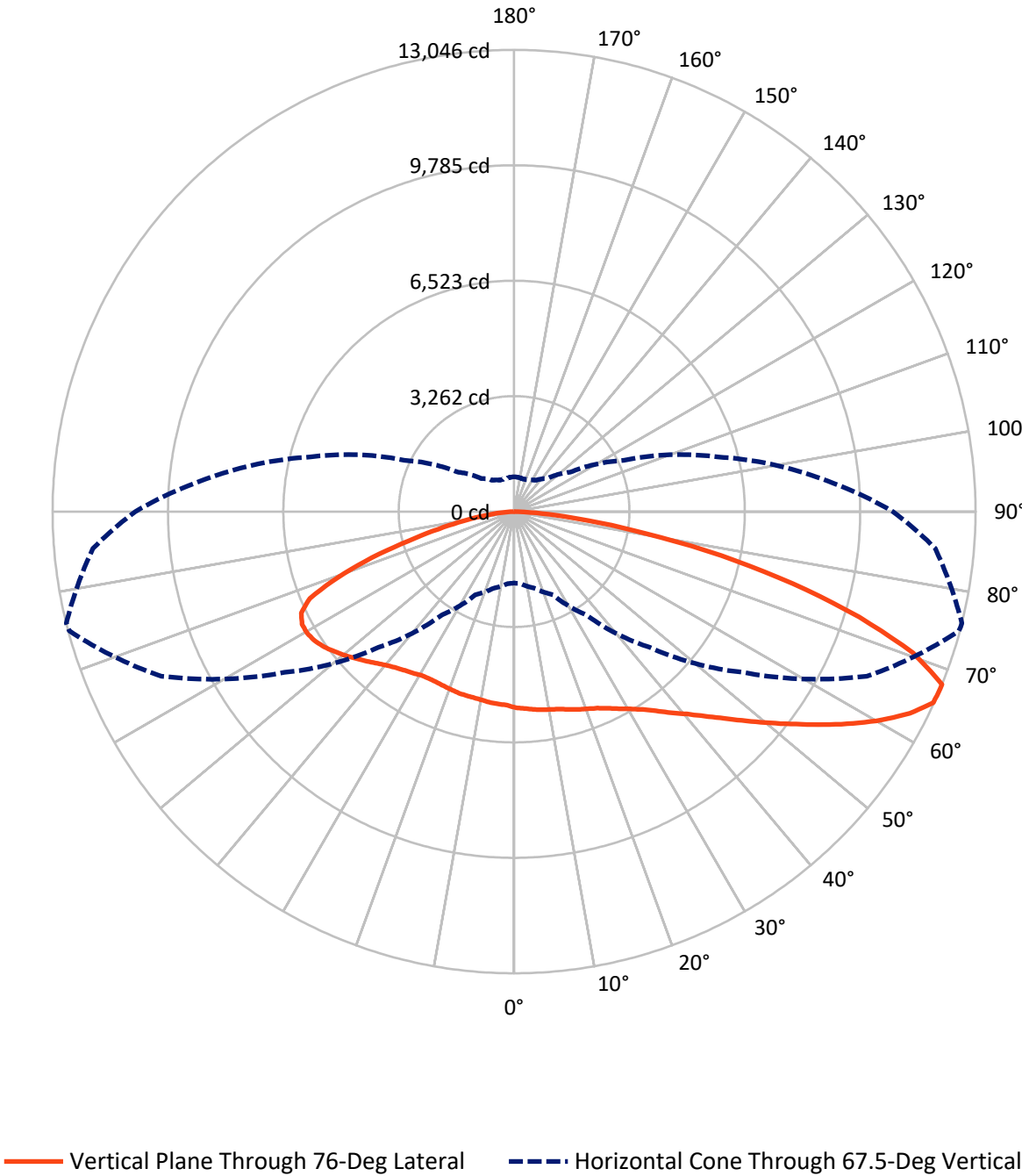
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9275.2	0.0	9275.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	18173.9	0.0	18173.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	27449.0	0.0	27449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.6	1.9
10°-20°	1634.5	6.0
20°-30°	2777.1	10.1
30°-40°	3951.5	14.4
40°-50°	4990.6	18.2
50°-60°	5403.3	19.7
60°-70°	5025.6	18.3
70°-80°	2699.2	9.8
80°-90°	432.5	1.6
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°	27449.0	100.0
0°-180°	27449.0	100.0

Coefficient of Utilization



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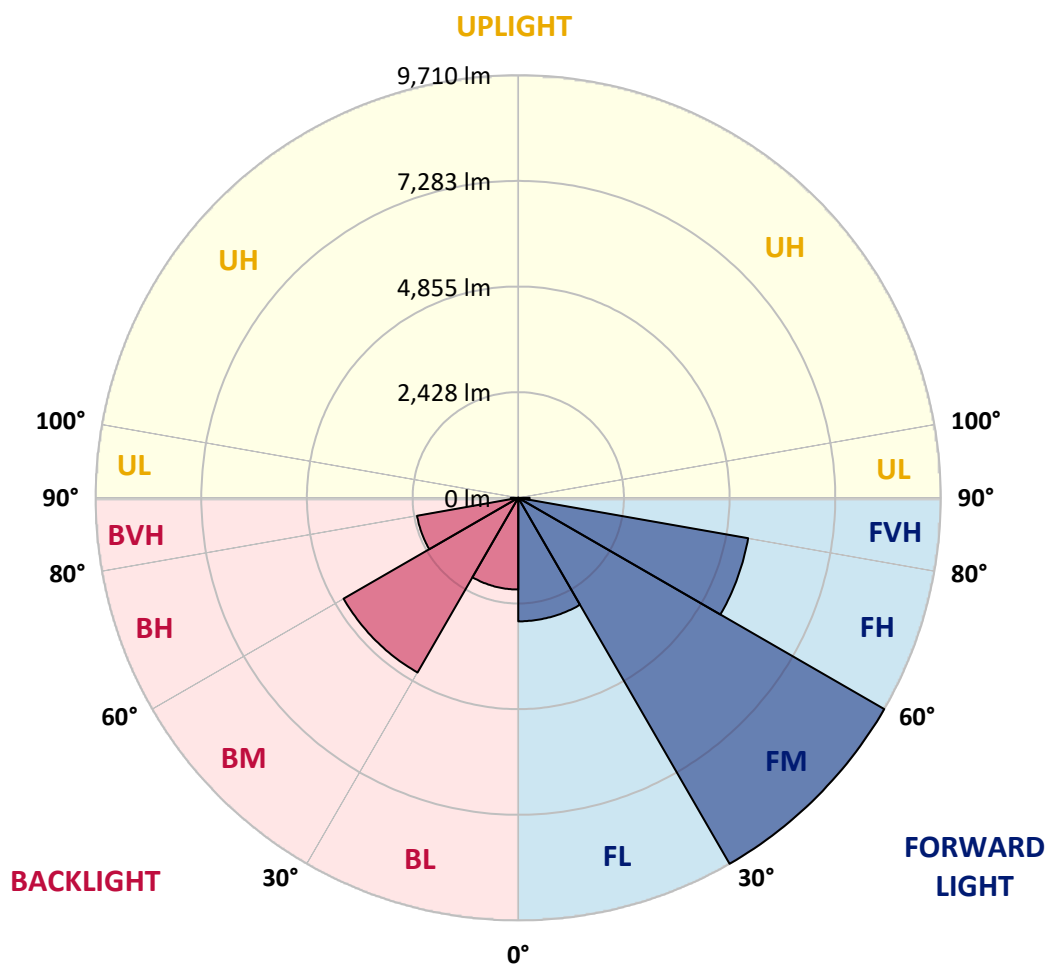
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2838.5	10.3			
FM	(30°-60°)	9710.4	35.4			
FH	(60°-80°)	5363.3	19.5			G3/7500
FVH	(80°-90°)	261.6	1.0			G3/500
BL	(0°-30°)	2107.8	7.7	B3/2500		
BM	(30°-60°)	4634.9	16.9	B3/5000		
BH	(60°-80°)	2361.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	170.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6
2.5°	5712.8	5702.6	5661.8	5666.9	5666.9	5661.8	5600.7	5575.2	5575.2	5570.1	5514.1
5°	5916.7	5901.4	5855.5	5845.3	5824.9	5799.4	5702.6	5646.6	5621.1	5616.0	5539.5
7.5°	6156.2	6135.8	6079.7	6049.2	5998.2	5931.9	5809.6	5723.0	5661.8	5656.8	5549.7
10°	6395.7	6375.3	6309.1	6253.0	6181.7	6074.6	5916.7	5789.3	5692.4	5682.2	5554.8
12.5°	6681.1	6660.7	6579.2	6507.8	6400.8	6258.1	6049.2	5875.9	5743.4	5728.1	5570.1
15°	6981.8	6951.2	6869.6	6788.1	6655.6	6472.1	6222.4	5993.1	5824.9	5799.4	5616.0
17.5°	7231.5	7190.7	7124.5	7042.9	6895.1	6681.1	6395.7	6110.3	5901.4	5881.0	5661.8
20°	7445.5	7414.9	7343.6	7267.1	7109.2	6874.7	6558.8	6227.5	5972.7	5947.2	5697.5
22.5°	7649.4	7608.6	7567.8	7511.8	7338.5	7078.6	6747.3	6370.2	6064.4	6033.9	5743.4
25°	7883.8	7837.9	7822.6	7792.1	7588.2	7323.2	6976.7	6548.6	6191.9	6156.2	5824.9
27.5°	8174.3	8123.3	8092.7	8092.7	7848.1	7572.9	7221.3	6757.5	6339.6	6309.1	5926.9
30°	8480.0	8418.9	8373.0	8373.0	8097.8	7822.6	7460.8	6966.5	6507.8	6472.1	6059.4
32.5°	8750.1	8689.0	8638.0	8632.9	8347.5	8072.3	7710.5	7195.8	6711.7	6665.8	6222.4
35°	8959.1	8903.0	8857.2	8867.3	8597.2	8327.1	7990.8	7501.6	6966.5	6915.5	6436.5
37.5°	9086.5	9066.1	9040.6	9076.3	8826.6	8571.8	8281.3	7797.1	7257.0	7211.1	6701.5
40°	9152.7	9137.4	9239.4	9285.2	9020.2	8790.9	8571.8	8102.9	7572.9	7522.0	7007.2
42.5°	9249.6	9377.0	9417.7	9407.5	9162.9	8959.1	8836.8	8434.2	7944.9	7899.1	7374.2
45°	8903.0	8872.4	9096.7	9219.0	9173.1	9066.1	9086.5	8831.7	8378.1	8332.2	7797.1
47.5°	8439.3	8398.5	8525.9	8826.6	9004.9	9106.9	9310.7	9244.5	8877.5	8836.8	8291.5
50°	7460.8	7516.9	7990.8	8393.4	8745.0	9096.7	9499.3	9687.8	9427.9	9387.2	8821.5
52.5°	6375.3	6431.4	6925.7	7853.2	8429.1	9020.2	9636.9	10131.2	10024.2	9978.3	9387.2
55°	5585.4	5707.7	6268.3	6941.0	7980.6	8780.7	9718.4	10584.8	10666.3	10625.5	10003.8
57.5°	4800.6	4892.3	5315.3	5911.6	7369.1	8362.8	9713.3	11007.7	11339.0	11298.2	10630.6
60°	3878.2	3995.4	4331.7	4973.9	6553.7	7863.4	9570.6	11339.0	11986.2	11955.6	11237.1
62.5°	3246.3	3281.9	3521.5	4076.9	5503.9	7231.5	9249.6	11517.4	12572.3	12551.9	11782.4
65°	2614.3	2619.4	2838.6	3302.3	4489.7	6446.7	8704.3	11451.1	13015.6	13025.8	12174.8
67.5°	2018.1	2043.6	2242.3	2594.0	3567.3	5427.4	7924.6	11002.6	13020.7	13046.2	11950.5
70°	1396.4	1416.7	1717.4	2058.9	2757.0	4326.7	6869.6	9815.2	11950.5	11970.9	10712.2
72.5°	983.6	993.8	1314.8	1646.1	2155.7	3261.6	5182.8	8118.2	10187.3	10202.5	9010.0
75°	733.8	744.0	927.5	1248.6	1651.2	2257.6	3541.8	6217.3	8138.6	8138.6	7114.3
77.5°	519.8	524.9	601.3	861.3	1100.8	1523.8	2130.2	4071.8	5972.7	5982.9	5182.8
80°	351.6	356.7	392.4	581.0	688.0	825.6	1156.8	2135.3	3766.1	3781.4	3292.1
82.5°	183.5	193.7	219.1	295.6	346.5	458.7	596.3	1085.5	2084.3	2125.1	1977.3
85°	71.3	71.3	81.5	96.8	127.4	178.4	275.2	412.8	942.8	973.4	871.4
87.5°	25.5	25.5	30.6	30.6	35.7	40.8	45.9	61.2	107.0	107.0	101.9
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°	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6	5544.6
2.5°	5493.7	5493.7	5468.2	5478.4	5473.3	5463.1	5452.9	5468.2	5452.9	5417.2	5412.1
5°	5503.9	5493.7	5452.9	5447.8	5432.5	5412.1	5386.7	5396.8	5371.4	5340.8	5335.7
7.5°	5509.0	5488.6	5432.5	5412.1	5381.6	5340.8	5300.0	5300.0	5264.3	5233.8	5228.7
10°	5498.8	5473.3	5396.8	5356.1	5300.0	5238.9	5182.8	5167.5	5126.8	5091.1	5091.1
12.5°	5503.9	5468.2	5371.4	5305.1	5228.7	5152.2	5080.9	5060.5	5024.8	4989.2	4984.1
15°	5534.4	5483.5	5361.2	5274.5	5162.4	5075.8	4999.3	4984.1	4953.5	4928.0	4928.0
17.5°	5565.0	5498.8	5345.9	5223.6	5086.0	4989.2	4917.8	4917.8	4897.4	4882.1	4882.1
20°	5580.3	5503.9	5315.3	5152.2	4994.3	4892.3	4826.1	4836.3	4831.2	4826.1	4826.1
22.5°	5616.0	5514.1	5289.8	5086.0	4897.4	4790.4	4729.2	4744.5	4739.4	4739.4	4744.5
25°	5672.0	5539.5	5269.4	5024.8	4805.7	4688.5	4622.2	4632.4	4632.4	4632.4	4632.4
27.5°	5748.5	5590.5	5264.3	4968.8	4714.0	4581.5	4499.9	4499.9	4479.5	4484.6	4489.7
30°	5865.7	5687.3	5274.5	4917.8	4617.1	4449.0	4352.1	4336.8	4331.7	4341.9	4347.0
32.5°	6008.4	5819.8	5335.7	4882.1	4515.2	4301.2	4178.9	4173.8	4158.5	4158.5	4158.5
35°	6186.8	5947.2	5391.8	4877.0	4413.3	4143.2	4010.7	3995.4	3959.7	3944.4	3944.4
37.5°	6416.1	6146.0	5458.0	4841.4	4326.7	3990.3	3832.3	3781.4	3740.6	3735.5	3735.5
40°	6696.4	6370.2	5554.8	4800.6	4234.9	3832.3	3623.4	3536.7	3541.8	3562.2	3562.2
42.5°	7027.6	6645.4	5677.1	4780.2	4102.4	3669.2	3378.8	3276.8	3312.5	3332.9	3338.0
45°	7414.9	6971.6	5814.7	4754.7	3980.1	3485.8	3118.9	2991.5	3006.7	3011.8	3016.9
47.5°	7863.4	7333.4	5957.4	4734.3	3842.5	3256.5	2833.5	2665.3	2660.2	2629.6	2639.8
50°	8332.2	7715.6	6105.2	4698.7	3674.3	2986.4	2532.8	2334.0	2293.3	2247.4	2252.5
52.5°	8831.7	8108.0	6242.8	4642.6	3465.4	2711.2	2247.4	2033.4	1951.8	1900.9	1911.1
55°	9382.1	8510.6	6375.3	4556.0	3246.3	2436.0	1992.6	1773.5	1671.5	1630.8	1635.9
57.5°	9886.6	8897.9	6472.1	4449.0	3006.7	2186.3	1768.4	1554.3	1488.1	1483.0	1488.1
60°	10375.8	9224.1	6512.9	4301.2	2762.1	1956.9	1559.4	1396.4	1350.5	1376.0	1381.1
62.5°	10788.6	9433.0	6492.5	4102.4	2512.4	1737.8	1391.3	1274.0	1243.5	1294.4	1299.5
65°	11028.1	9499.3	6349.8	3817.0	2242.3	1523.8	1233.3	1105.9	1090.6	1121.2	1136.4
67.5°	10712.2	9086.5	5962.5	3424.6	1941.6	1325.0	1080.4	978.5	953.0	978.5	978.5
70°	9494.2	7873.6	5045.2	2802.9	1610.4	1131.4	937.7	866.3	846.0	866.3	861.3
72.5°	7909.3	6548.6	3975.0	2186.3	1268.9	953.0	815.4	749.1	728.8	708.4	698.2
75°	6135.8	4973.9	2884.4	1605.3	958.1	764.4	682.9	621.7	570.8	591.2	581.0
77.5°	4494.8	3490.9	2043.6	1111.0	688.0	591.2	535.1	489.2	453.6	494.3	489.2
80°	2894.6	2257.6	1365.8	744.0	473.9	412.8	392.4	366.9	402.6	524.9	535.1
82.5°	1768.4	1432.0	815.4	484.1	310.9	275.2	254.8	254.8	412.8	453.6	458.7
85°	789.9	759.3	443.4	249.7	173.3	158.0	142.7	183.5	168.2	122.3	127.4
87.5°	127.4	132.5	96.8	86.6	66.3	66.3	51.0	35.7	25.5	15.3	15.3
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)