

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: P841544

Luminaire Tested: **ARCH4-190-740-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841544
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: ARCH4-190-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31398 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

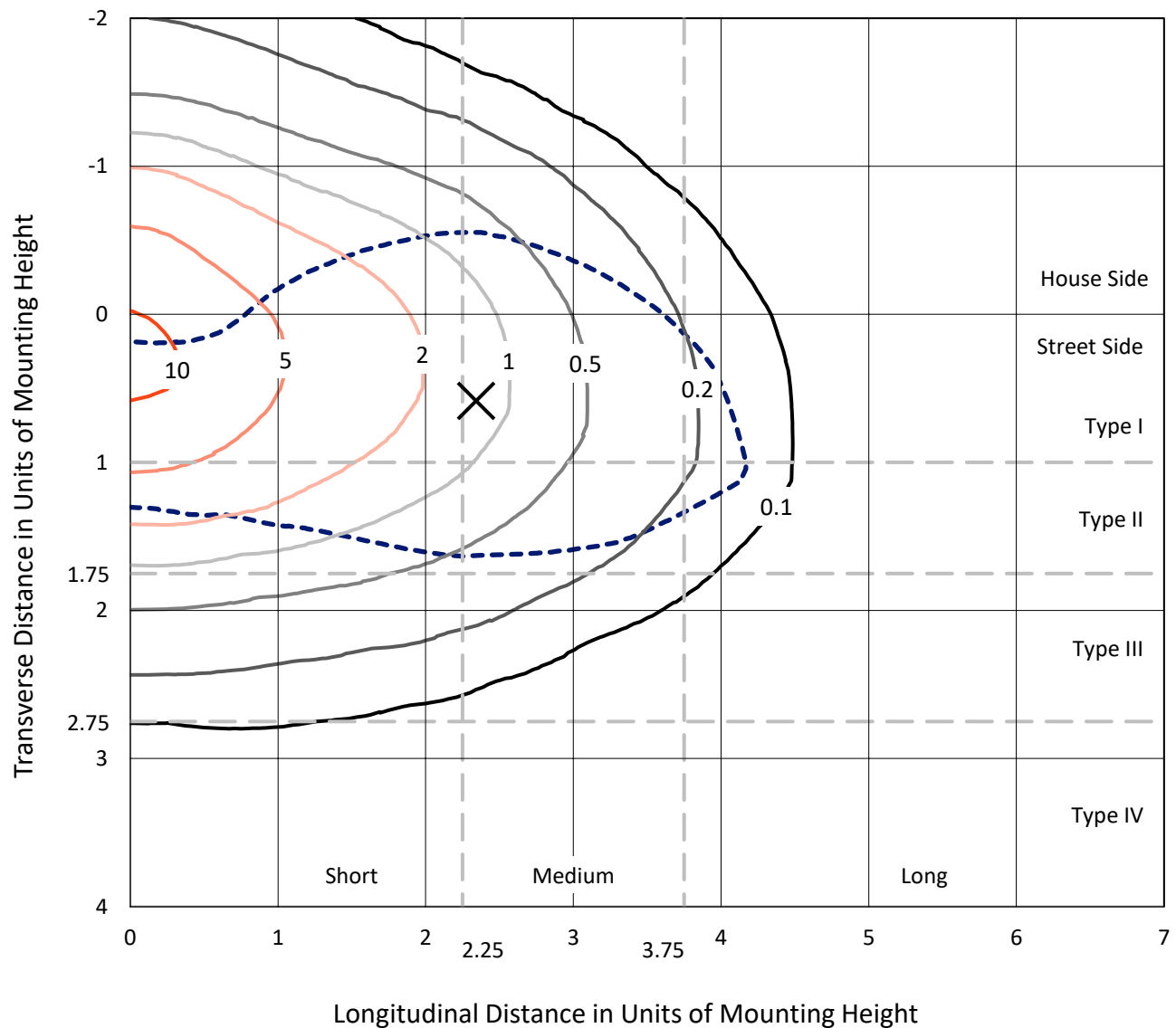
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

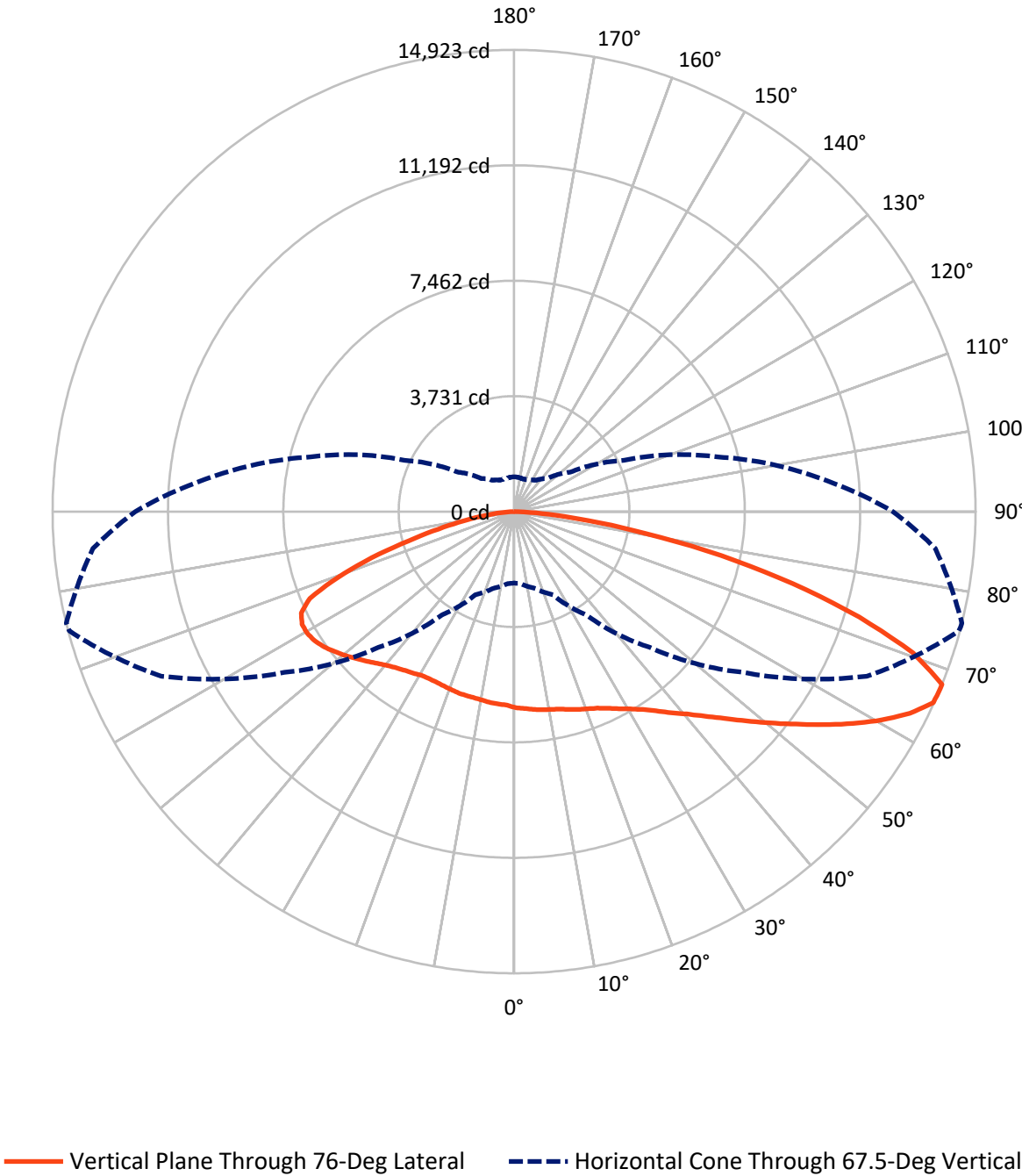
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	10609.5	0.0	10609.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	20788.5	0.0	20788.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	31398.0	0.0	31398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.6	1.9
10°-20°	1869.7	6.0
20°-30°	3176.7	10.1
30°-40°	4520.0	14.4
40°-50°	5708.6	18.2
50°-60°	6180.6	19.7
60°-70°	5748.6	18.3
70°-80°	3087.5	9.8
80°-90°	494.7	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°	31398.0	100.0
0°-180°	31398.0	100.0

Coefficient of Utilization



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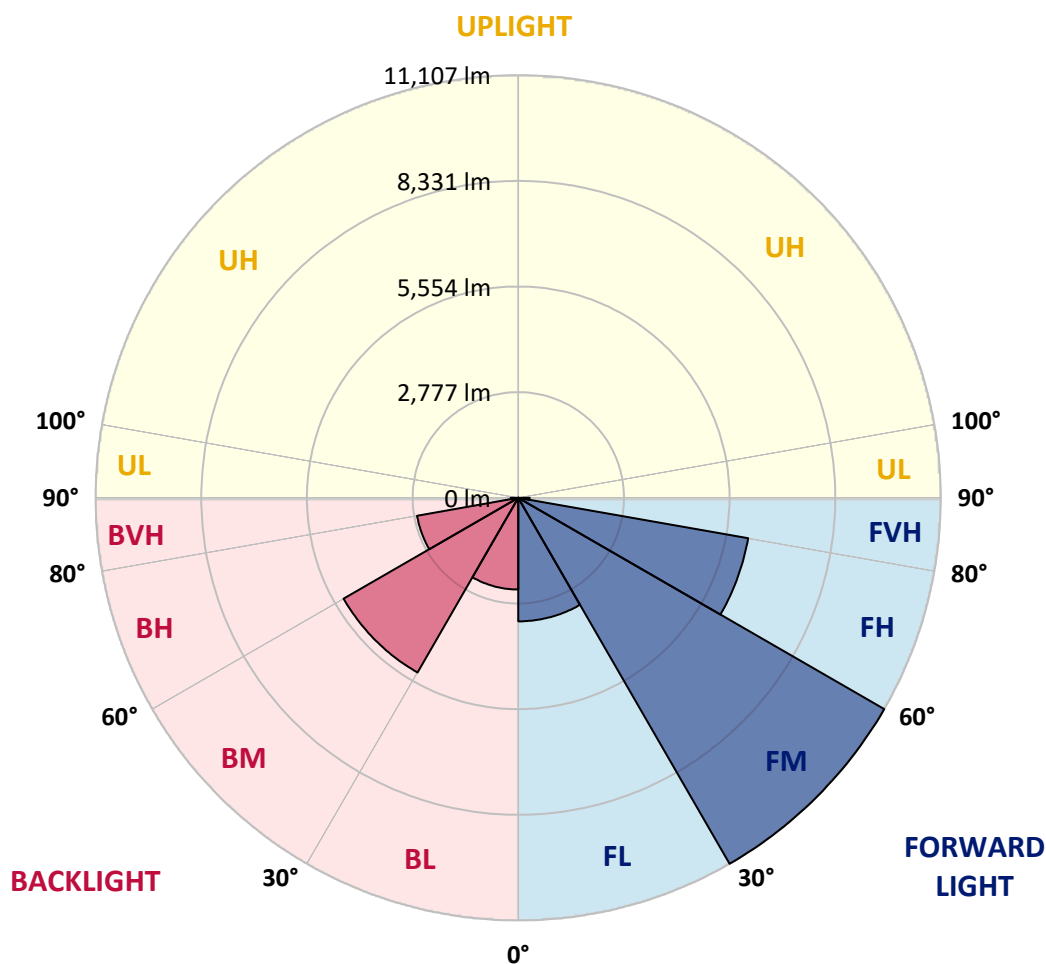
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3246.9	10.3			
FM	(30°-60°)	11107.4	35.4			
FH	(60°-80°)	6134.9	19.5			G3/7500
FVH	(80°-90°)	299.3	1.0			G3/500
BL	(0°-30°)	2411.1	7.7	B3/2500		
BM	(30°-60°)	5301.7	16.9	B4/8500		
BH	(60°-80°)	2701.3	8.6	B4/5000		G4/5000
BVH	(80°-90°)	195.5	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3
2.5°	6534.7	6523.0	6476.4	6482.2	6482.2	6476.4	6406.4	6377.3	6377.3	6371.5	6307.4
5°	6767.9	6750.4	6697.9	6686.3	6662.9	6633.8	6523.0	6458.9	6429.8	6423.9	6336.5
7.5°	7041.8	7018.5	6954.4	6919.4	6861.1	6785.4	6645.5	6546.4	6476.4	6470.6	6348.2
10°	7315.8	7292.5	7216.7	7152.6	7071.0	6948.6	6767.9	6622.1	6511.4	6499.7	6354.0
12.5°	7642.3	7619.0	7525.7	7444.1	7321.7	7158.4	6919.4	6721.2	6569.7	6552.2	6371.5
15°	7986.2	7951.2	7858.0	7764.7	7613.1	7403.3	7117.6	6855.3	6662.9	6633.8	6423.9
17.5°	8271.8	8225.2	8149.4	8056.2	7887.1	7642.3	7315.8	6989.4	6750.4	6727.1	6476.4
20°	8516.7	8481.7	8400.1	8312.6	8131.9	7863.8	7502.4	7123.5	6832.0	6802.8	6517.2
22.5°	8749.8	8703.2	8656.6	8592.5	8394.3	8097.0	7718.1	7286.7	6936.9	6901.9	6569.7
25°	9018.0	8965.5	8948.0	8913.1	8679.9	8376.8	7980.4	7490.7	7082.7	7041.8	6662.9
27.5°	9350.3	9292.0	9257.0	9257.0	8977.2	8662.4	8260.2	7729.7	7251.7	7216.7	6779.5
30°	9700.0	9630.1	9577.6	9577.6	9262.8	8948.0	8534.2	7968.7	7444.1	7403.3	6931.1
32.5°	10009.0	9939.0	9880.7	9874.9	9548.5	9233.7	8819.8	8231.0	7677.2	7624.8	7117.6
35°	10248.0	10183.9	10131.4	10143.1	9834.1	9525.1	9140.4	8580.8	7968.7	7910.4	7362.5
37.5°	10393.7	10370.4	10341.3	10382.1	10096.4	9805.0	9472.7	8918.9	8301.0	8248.5	7665.6
40°	10469.5	10452.0	10568.6	10621.1	10317.9	10055.6	9805.0	9268.7	8662.4	8604.1	8015.3
42.5°	10580.3	10726.0	10772.6	10761.0	10481.2	10248.0	10108.1	9647.6	9087.9	9035.5	8435.1
45°	10183.9	10148.9	10405.4	10545.3	10492.8	10370.4	10393.7	10102.3	9583.4	9531.0	8918.9
47.5°	9653.4	9606.8	9752.5	10096.4	10300.5	10417.0	10650.2	10574.4	10154.7	10108.1	9484.3
50°	8534.2	8598.3	9140.4	9600.9	10003.2	10405.4	10865.9	11081.6	10784.3	10737.7	10090.6
52.5°	7292.5	7356.6	7922.1	8983.0	9641.7	10317.9	11023.3	11588.7	11466.3	11413.9	10737.7
55°	6389.0	6528.9	7170.1	7939.6	9128.8	10044.0	11116.6	12107.5	12200.8	12154.2	11443.0
57.5°	5491.2	5596.2	6080.0	6762.0	8429.2	9566.0	11110.7	12591.4	12970.3	12923.7	12160.0
60°	4436.1	4570.2	4954.9	5689.4	7496.5	8994.7	10947.5	12970.3	13710.6	13675.6	12853.7
62.5°	3713.3	3754.1	4028.1	4663.5	6295.7	8271.8	10580.3	13174.3	14381.0	14357.7	13477.4
65°	2990.5	2996.3	3246.9	3777.4	5135.7	7374.1	9956.5	13098.5	14888.1	14899.8	13926.3
67.5°	2308.4	2337.6	2564.9	2967.1	4080.5	6208.3	9064.6	12585.6	14894.0	14923.1	13669.8
70°	1597.2	1620.6	1964.5	2355.1	3153.7	4949.1	7858.0	11227.3	13669.8	13693.1	12253.3
72.5°	1125.1	1136.7	1504.0	1882.9	2465.8	3730.8	5928.4	9286.1	11652.9	11670.3	10306.3
75°	839.4	851.1	1060.9	1428.2	1888.7	2582.4	4051.4	7111.8	9309.5	9309.5	8137.8
77.5°	594.6	600.4	687.9	985.2	1259.1	1743.0	2436.7	4657.6	6832.0	6843.7	5928.4
80°	402.2	408.1	448.9	664.5	787.0	944.4	1323.3	2442.5	4307.9	4325.4	3765.8
82.5°	209.9	221.5	250.7	338.1	396.4	524.6	682.0	1241.7	2384.2	2430.8	2261.8
85°	81.6	81.6	93.3	110.8	145.7	204.0	314.8	472.2	1078.4	1113.4	996.8
87.5°	29.1	29.1	35.0	35.0	40.8	46.6	52.5	70.0	122.4	122.4	116.6
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°	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3	6342.3
2.5°	6284.0	6284.0	6254.9	6266.5	6260.7	6249.1	6237.4	6254.9	6237.4	6196.6	6190.8
5°	6295.7	6284.0	6237.4	6231.6	6214.1	6190.8	6161.6	6173.3	6144.1	6109.2	6103.3
7.5°	6301.5	6278.2	6214.1	6190.8	6155.8	6109.2	6062.5	6062.5	6021.7	5986.7	5980.9
10°	6289.9	6260.7	6173.3	6126.6	6062.5	5992.6	5928.4	5911.0	5864.3	5823.5	5823.5
12.5°	6295.7	6254.9	6144.1	6068.3	5980.9	5893.5	5811.9	5788.5	5747.7	5706.9	5701.1
15°	6330.7	6272.4	6132.5	6033.4	5905.1	5806.0	5718.6	5701.1	5666.1	5637.0	5637.0
17.5°	6365.6	6289.9	6115.0	5975.1	5817.7	5706.9	5625.3	5625.3	5602.0	5584.5	5584.5
20°	6383.1	6295.7	6080.0	5893.5	5712.8	5596.2	5520.4	5532.0	5526.2	5520.4	5520.4
22.5°	6423.9	6307.4	6050.9	5817.7	5602.0	5479.6	5409.6	5427.1	5421.3	5421.3	5427.1
25°	6488.1	6336.5	6027.5	5747.7	5497.1	5363.0	5287.2	5298.9	5298.9	5298.9	5298.9
27.5°	6575.5	6394.8	6021.7	5683.6	5392.1	5240.6	5147.3	5147.3	5124.0	5129.8	5135.7
30°	6709.6	6505.5	6033.4	5625.3	5281.4	5089.0	4978.3	4960.8	4954.9	4966.6	4972.4
32.5°	6872.8	6657.1	6103.3	5584.5	5164.8	4920.0	4780.1	4774.2	4756.7	4756.7	4756.7
35°	7076.8	6802.8	6167.4	5578.7	5048.2	4739.3	4587.7	4570.2	4529.4	4511.9	4511.9
37.5°	7339.1	7030.2	6243.2	5537.9	4949.1	4564.4	4383.7	4325.4	4278.7	4272.9	4272.9
40°	7659.8	7286.7	6354.0	5491.2	4844.2	4383.7	4144.7	4045.6	4051.4	4074.7	4074.7
42.5°	8038.7	7601.5	6493.9	5467.9	4692.6	4197.1	3864.9	3748.3	3789.1	3812.4	3818.2
45°	8481.7	7974.5	6651.3	5438.8	4552.7	3987.3	3567.6	3421.8	3439.3	3445.1	3451.0
47.5°	8994.7	8388.4	6814.5	5415.5	4395.3	3725.0	3241.1	3048.7	3042.9	3007.9	3019.6
50°	9531.0	8825.6	6983.6	5374.7	4203.0	3416.0	2897.2	2669.8	2623.2	2570.7	2576.6
52.5°	10102.3	9274.5	7140.9	5310.5	3964.0	3101.2	2570.7	2325.9	2232.6	2174.3	2186.0
55°	10731.8	9735.0	7292.5	5211.4	3713.3	2786.4	2279.3	2028.6	1912.0	1865.4	1871.2
57.5°	11308.9	10178.0	7403.3	5089.0	3439.3	2500.8	2022.8	1778.0	1702.2	1696.3	1702.2
60°	11868.5	10551.1	7449.9	4920.0	3159.5	2238.5	1783.8	1597.2	1544.8	1573.9	1579.8
62.5°	12340.7	10790.1	7426.6	4692.6	2873.9	1987.8	1591.4	1457.3	1422.4	1480.7	1486.5
65°	12614.7	10865.9	7263.4	4366.2	2564.9	1743.0	1410.7	1265.0	1247.5	1282.5	1299.9
67.5°	12253.3	10393.7	6820.3	3917.3	2221.0	1515.6	1235.8	1119.2	1090.1	1119.2	1119.2
70°	10860.1	9006.3	5771.1	3206.1	1842.1	1294.1	1072.6	991.0	967.7	991.0	985.2
72.5°	9047.1	7490.7	4546.9	2500.8	1451.5	1090.1	932.7	856.9	833.6	810.3	798.6
75°	7018.5	5689.4	3299.4	1836.2	1095.9	874.4	781.1	711.2	652.9	676.2	664.5
77.5°	5141.5	3993.1	2337.6	1270.8	787.0	676.2	612.1	559.6	518.8	565.4	559.6
80°	3311.1	2582.4	1562.3	851.1	542.1	472.2	448.9	419.7	460.5	600.4	612.1
82.5°	2022.8	1638.0	932.7	553.8	355.6	314.8	291.5	291.5	472.2	518.8	524.6
85°	903.5	868.6	507.2	285.6	198.2	180.7	163.2	209.9	192.4	139.9	145.7
87.5°	145.7	151.6	110.8	99.1	75.8	75.8	58.3	40.8	29.1	17.5	17.5
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)