

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: P400174

Luminaire Tested: **ARCH-L-PA3-240-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24281 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

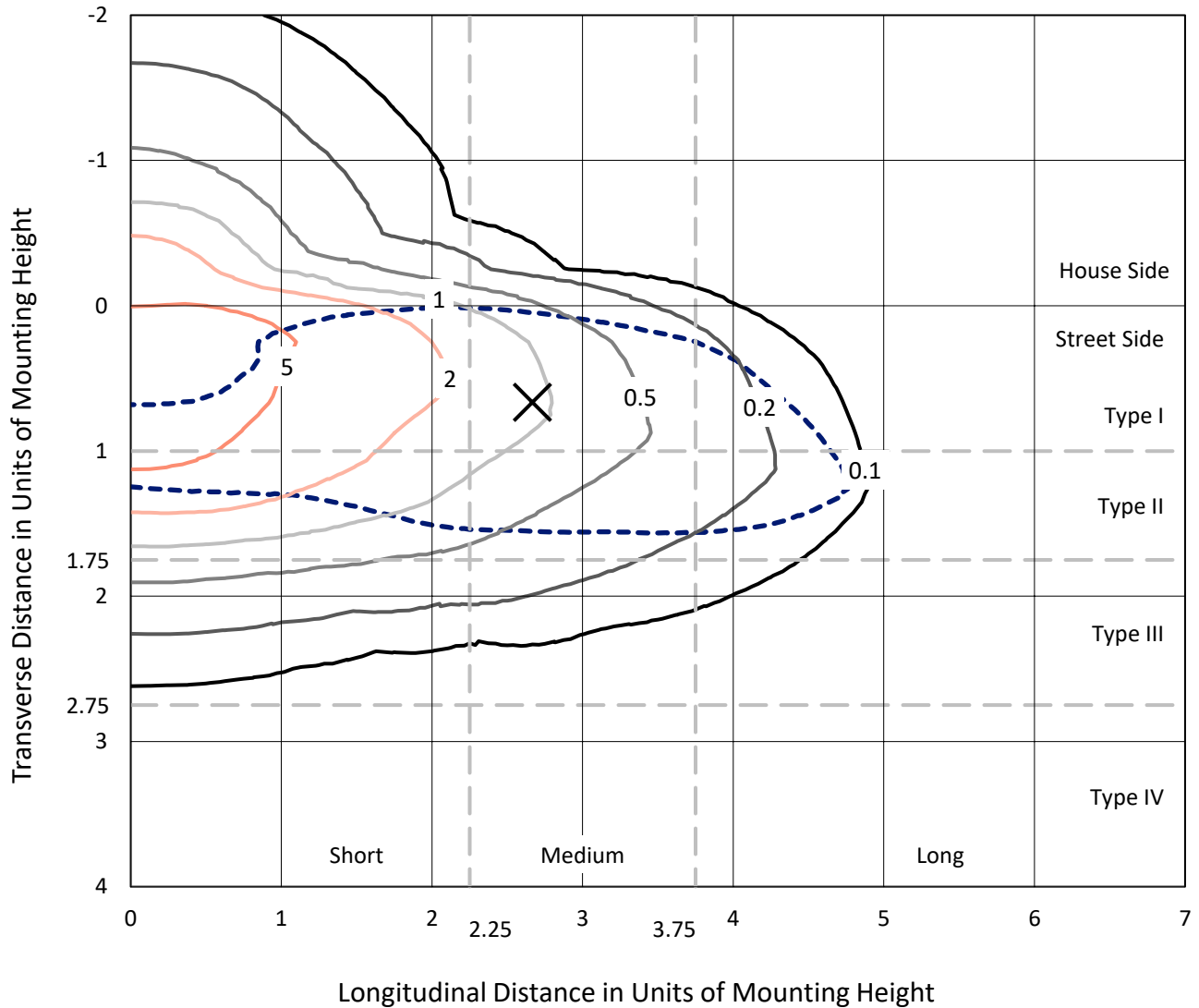
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

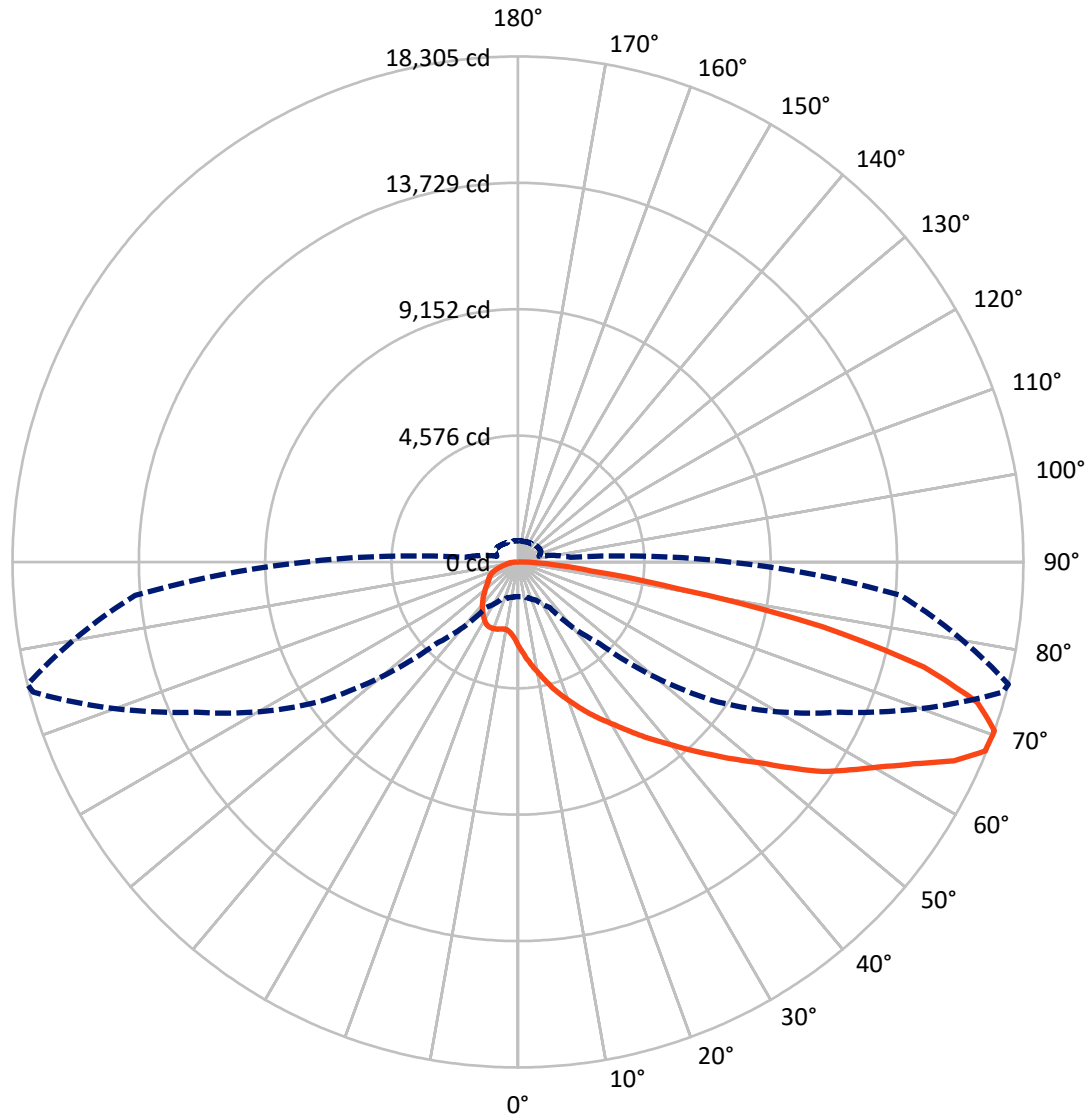
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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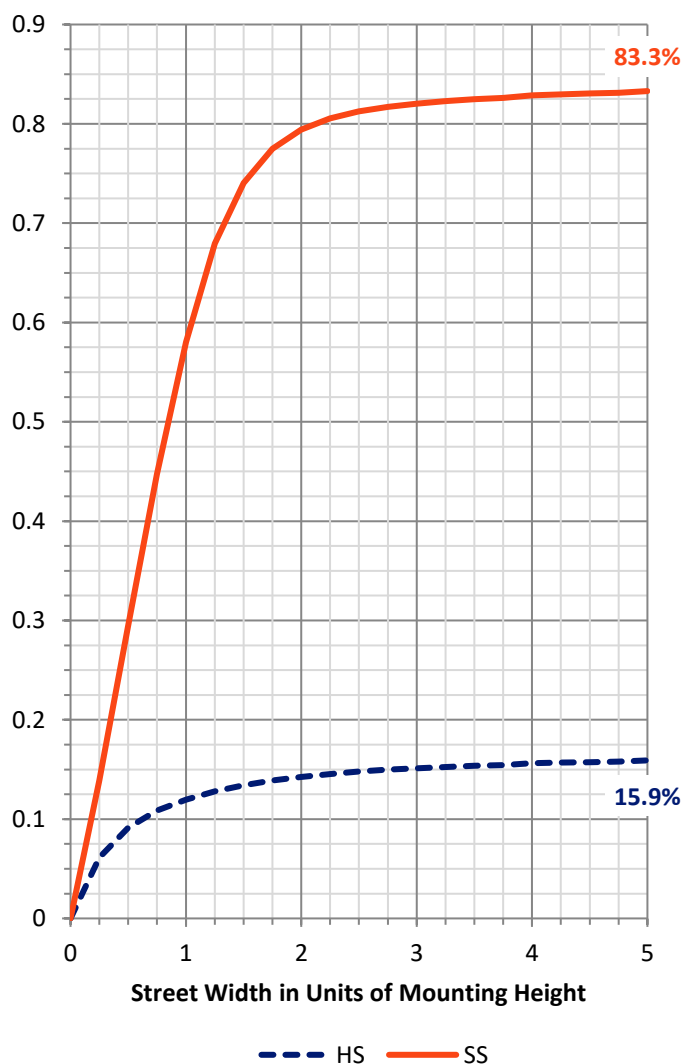
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3964.1	0.0	3964.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	20316.9	0.0	20316.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	24281.0	0.0	24281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.5	1.3
10°-20°	1072.3	4.4
20°-30°	1918.5	7.9
30°-40°	3103.4	12.8
40°-50°	4489.5	18.5
50°-60°	5138.5	21.2
60°-70°	4726.8	19.5
70°-80°	2923.0	12.0
80°-90°	593.6	2.4
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°	24281.0	100.0
0°-180°	24281.0	100.0

Coefficient of Utilization



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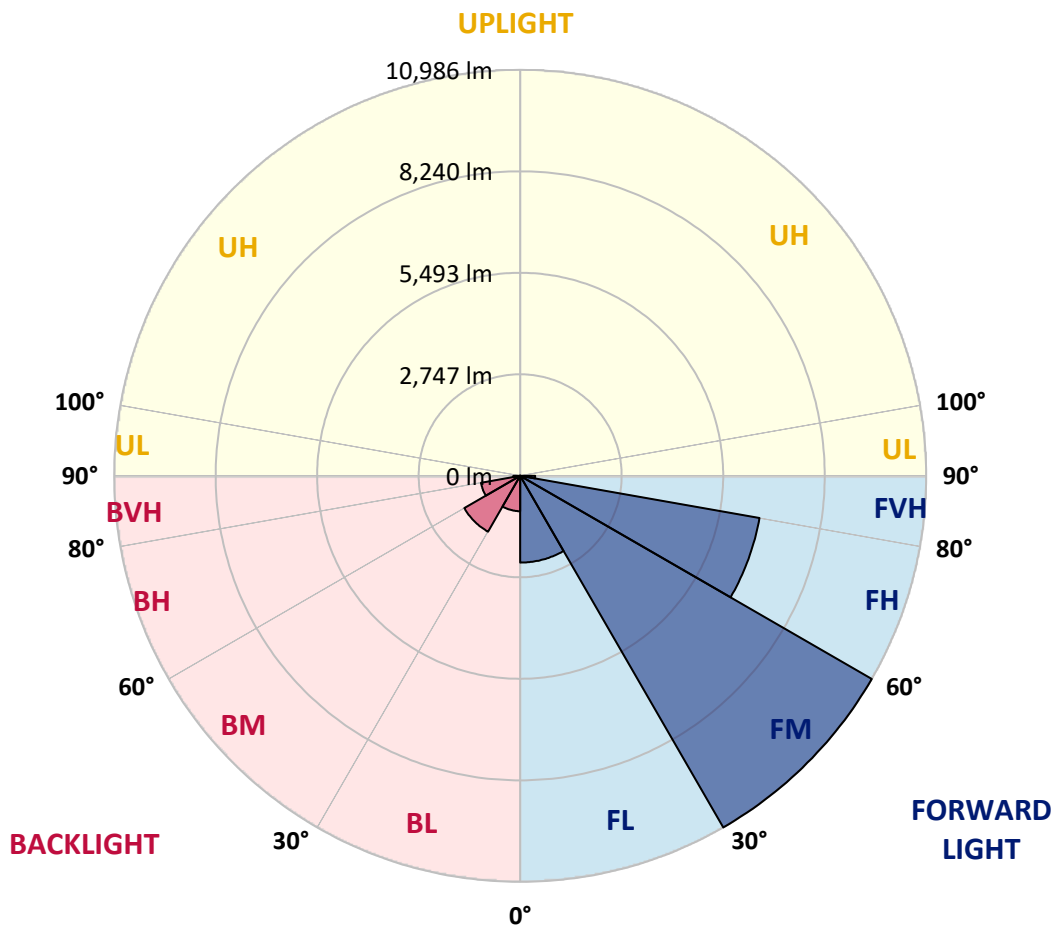
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2348.8	9.7			
FM (30°-60°)	10986.0	45.2			
FH (60°-80°)	6574.6	27.1			G3/7500
FVH (80°-90°)	407.5	1.7			G3/500
BL (0°-30°)	957.5	3.9	B2/1000		
BM (30°-60°)	1745.4	7.2	B2/2500		
BH (60°-80°)	1075.2	4.4	B3/2500		G3/2500
BVH (80°-90°)	186.1	0.8			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°	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4
2.5°	3869.8	3841.1	3837.9	3793.2	3751.7	3639.9	3560.1	3419.6	3279.1	3275.9	3135.4
5°	4473.2	4444.5	4428.5	4374.3	4304.0	4157.1	4013.5	3796.4	3556.9	3540.9	3275.9
7.5°	4881.9	4856.4	4824.5	4802.1	4735.1	4604.2	4428.5	4169.9	3841.1	3809.1	3438.7
10°	5156.5	5140.6	5134.2	5118.2	5076.7	4971.3	4802.1	4527.5	4125.2	4090.1	3611.2
12.5°	5274.7	5268.3	5297.0	5341.7	5357.7	5316.2	5153.3	4894.7	4438.1	4399.8	3818.7
15°	5137.4	5143.8	5217.2	5370.4	5533.3	5622.7	5526.9	5274.7	4792.5	4738.3	4061.4
17.5°	5073.5	5083.1	5134.2	5281.0	5510.9	5788.7	5833.4	5635.5	5134.2	5057.5	4316.8
20°	5185.3	5198.0	5236.3	5351.3	5510.9	5807.9	6041.0	5980.3	5469.4	5389.6	4562.6
22.5°	5469.4	5485.4	5482.2	5555.6	5664.2	5868.5	6155.9	6306.0	5820.6	5731.2	4818.1
25°	6076.1	6063.3	5954.7	5919.6	5948.4	6079.3	6309.2	6618.9	6187.8	6098.4	5086.3
27.5°	6899.8	6883.9	6685.9	6507.1	6347.5	6404.9	6526.3	6871.1	6561.4	6459.2	5341.7
30°	7781.1	7761.9	7532.0	7241.5	6887.1	6804.1	6788.1	7091.4	6938.2	6829.6	5613.1
32.5°	8640.0	8624.0	8378.2	8039.7	7551.2	7302.2	7148.9	7337.3	7366.0	7260.6	5910.0
35°	9422.2	9422.2	9211.5	8809.2	8256.8	7880.1	7627.8	7640.6	7857.7	7736.4	6248.5
37.5°	10118.3	10115.1	9885.2	9489.3	8959.3	8528.2	8215.3	8007.8	8327.1	8221.7	6602.9
40°	10670.7	10648.3	10479.1	10134.2	9601.0	9173.2	8857.1	8438.8	8850.7	8754.9	6979.7
42.5°	11073.0	11060.2	10945.2	10645.1	10137.4	9735.1	9518.0	8981.6	9444.6	9348.8	7420.3
45°	11229.4	11255.0	11255.0	10970.8	10568.5	10201.3	10105.5	9578.7	10086.4	9990.6	7892.8
47.5°	10977.2	11044.2	11181.5	11200.7	10846.3	10597.2	10629.1	10178.9	10747.3	10696.2	8410.1
50°	10188.5	10313.1	10613.2	11156.0	10958.0	10900.5	11076.2	10792.0	11456.1	11440.1	9039.1
52.5°	8154.7	8458.0	9393.5	10367.3	10881.4	11041.0	11520.0	11481.6	12369.3	12394.8	9859.7
55°	6254.9	6369.8	7452.2	9109.3	10412.0	10996.3	11816.9	12155.4	13359.1	13391.0	10613.2
57.5°	5057.5	5134.2	5724.9	7452.2	9342.4	10753.7	12050.0	12548.1	14119.0	14202.0	11283.7
60°	4007.1	4118.8	4514.8	5702.5	7844.9	10169.4	12212.8	12985.5	14936.4	15060.9	12085.1
62.5°	2979.0	3033.3	3406.8	4224.2	6210.2	9118.9	12126.6	13461.2	15938.9	16089.0	13049.4
65°	2120.1	2168.0	2433.0	3004.5	4591.4	7698.1	11625.3	13815.7	17196.9	17350.2	14020.0
67.5°	1586.9	1606.0	1756.1	2100.9	3093.9	5980.3	10610.0	13755.0	18116.5	18253.8	14409.5
70°	1254.8	1261.2	1334.6	1519.8	2011.5	4163.5	8831.5	12864.2	18183.5	18304.9	13917.8
72.5°	1040.9	1037.7	1079.2	1168.6	1401.7	2634.1	6542.2	11210.3	17321.5	17404.5	12544.9
75°	858.9	865.3	894.0	945.1	1069.6	1736.9	4240.2	8943.3	15281.2	15191.8	10527.0
77.5°	721.6	718.4	731.2	775.9	865.3	1248.4	2484.1	6462.4	11325.2	11280.5	6909.4
80°	581.1	587.5	606.7	645.0	728.0	951.5	1468.7	4032.6	6076.1	5913.2	3301.5
82.5°	389.5	450.2	488.5	533.2	629.0	702.4	932.3	2049.8	2717.2	2675.6	1497.5
85°	185.2	245.9	364.0	415.1	510.9	440.6	632.2	977.0	1360.2	1344.2	539.6
87.5°	38.3	38.3	194.8	233.1	316.1	188.4	351.2	424.7	657.7	616.2	220.3
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°	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4	3036.4
2.5°	3052.4	2966.2	2793.8	2656.5	2516.0	2436.2	2337.2	2289.3	2279.7	2254.2	2273.3
5°	3106.7	2937.5	2611.8	2397.9	2254.2	2183.9	2148.8	2136.0	2132.9	2126.5	2126.5
7.5°	3180.1	2921.5	2496.8	2279.7	2187.1	2164.8	2174.4	2193.5	2196.7	2203.1	2199.9
10°	3269.5	2924.7	2433.0	2251.0	2206.3	2209.5	2241.4	2267.0	2279.7	2289.3	2286.1
12.5°	3394.0	2963.0	2423.4	2270.1	2251.0	2263.8	2295.7	2321.2	2334.0	2337.2	2337.2
15°	3556.9	3042.8	2445.8	2311.7	2295.7	2305.3	2324.4	2334.0	2337.2	2334.0	2334.0
17.5°	3735.7	3138.6	2477.7	2337.2	2311.7	2302.1	2295.7	2286.1	2267.0	2254.2	2254.2
20°	3908.1	3224.8	2493.7	2334.0	2289.3	2251.0	2212.7	2164.8	2132.9	2107.3	2107.3
22.5°	4080.5	3304.6	2493.7	2298.9	2228.6	2155.2	2075.4	1998.8	1950.9	1918.9	1918.9
25°	4262.5	3381.3	2474.5	2238.2	2132.9	2027.5	1918.9	1823.1	1775.2	1743.3	1736.9
27.5°	4415.8	3426.0	2423.4	2152.0	2014.7	1880.6	1756.1	1657.1	1622.0	1593.3	1593.3
30°	4578.6	3454.7	2327.6	2040.3	1880.6	1727.4	1599.6	1519.8	1481.5	1440.0	1436.8
32.5°	4760.6	3473.9	2219.1	1922.1	1743.3	1580.5	1471.9	1408.1	1325.1	1280.4	1274.0
35°	4971.3	3499.4	2104.1	1788.0	1606.0	1459.2	1395.3	1289.9	1210.1	1171.8	1168.6
37.5°	5194.8	3518.6	1979.6	1669.9	1481.5	1379.3	1315.5	1190.9	1120.7	1063.2	1056.8
40°	5431.1	3518.6	1851.9	1554.9	1382.5	1344.2	1222.9	1111.1	993.0	964.3	957.9
42.5°	5692.9	3512.2	1724.2	1443.2	1289.9	1264.4	1168.6	1050.5	989.8	964.3	957.9
45°	5970.7	3489.8	1602.8	1315.5	1194.1	1143.1	1069.6	1037.7	1012.1	1012.1	1012.1
47.5°	6286.8	3470.7	1465.5	1200.5	1123.9	1066.4	1012.1	993.0	989.8	999.4	1009.0
50°	6692.3	3464.3	1350.6	1117.5	1069.6	1002.6	996.2	980.2	983.4	983.4	983.4
52.5°	7184.0	3406.8	1242.0	1056.8	1015.3	935.5	954.7	970.6	977.0	973.8	970.6
55°	7544.8	3304.6	1149.4	1015.3	977.0	910.0	935.5	961.1	967.4	957.9	957.9
57.5°	7870.5	3161.0	1076.0	983.4	951.5	894.0	922.7	948.3	941.9	938.7	935.5
60°	8244.1	3023.7	1018.5	967.4	925.9	887.6	913.2	929.1	919.6	913.2	910.0
62.5°	8649.6	2889.6	977.0	967.4	906.8	884.4	903.6	910.0	890.8	884.4	884.4
65°	8837.9	2678.8	932.3	967.4	897.2	878.0	884.4	878.0	858.9	858.9	855.7
67.5°	8528.2	2330.8	874.9	954.7	910.0	868.5	855.7	846.1	823.8	823.8	817.4
70°	7672.5	1915.7	791.8	913.2	913.2	865.3	817.4	795.0	769.5	779.1	766.3
72.5°	6555.0	1519.8	689.7	842.9	894.0	862.1	775.9	740.8	718.4	728.0	708.8
75°	5309.8	1178.2	568.3	731.2	846.1	846.1	734.4	686.5	660.9	660.9	638.6
77.5°	3384.5	871.7	463.0	606.7	759.9	823.8	699.2	625.8	587.5	577.9	561.9
80°	1676.3	613.0	380.0	482.1	648.2	772.7	673.7	555.6	501.3	482.1	453.4
82.5°	890.8	424.7	303.3	376.8	517.2	696.1	641.8	478.9	411.9	383.1	351.2
85°	399.1	261.8	242.7	287.4	392.7	571.5	577.9	392.7	316.1	376.8	277.8
87.5°	146.9	118.1	118.1	146.9	226.7	239.5	408.7	252.2	201.2	137.3	108.6
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)