

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: P400435

Luminaire Tested: **ARCH-L-PA3-280-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400435
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-PA3-280-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36067 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

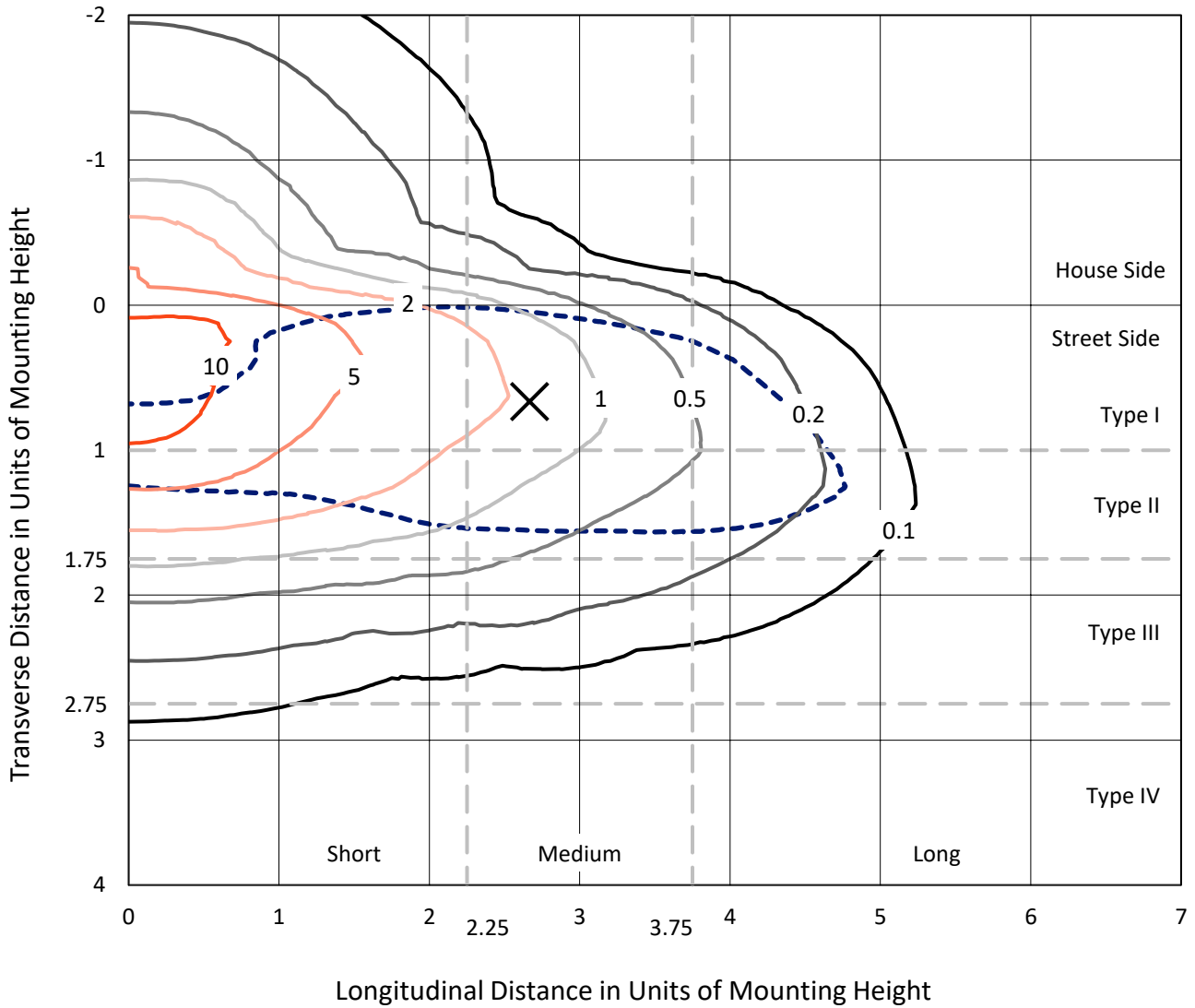
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

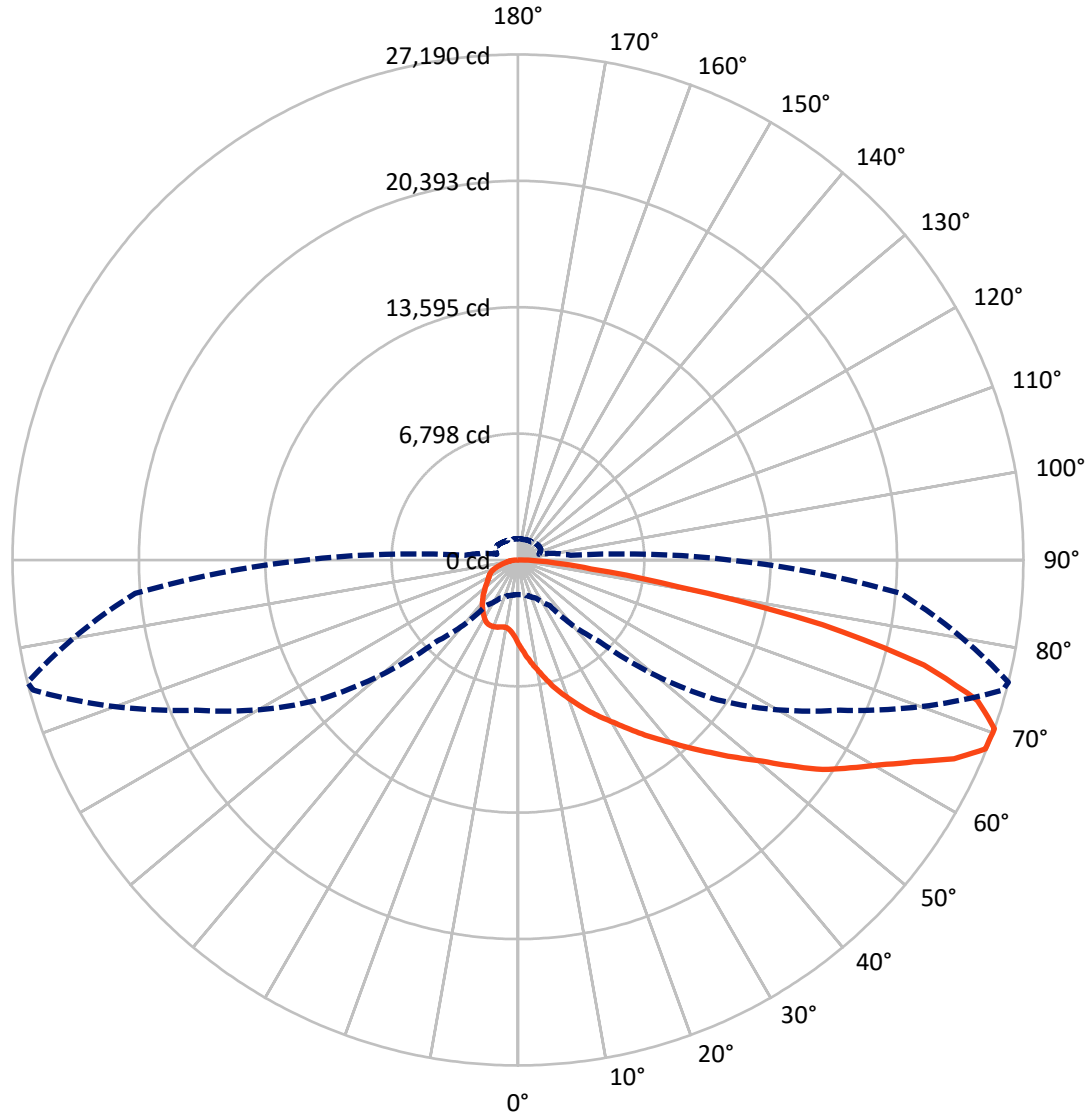
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	5888.3	0.0	5888.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	30178.7	0.0	30178.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	36067.0	0.0	36067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.6	1.3
10°-20°	1592.8	4.4
20°-30°	2849.7	7.9
30°-40°	4609.8	12.8
40°-50°	6668.7	18.5
50°-60°	7632.7	21.2
60°-70°	7021.2	19.5
70°-80°	4341.8	12.0
80°-90°	881.7	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°	36067.0	100.0
0°-180°	36067.0	100.0

Coefficient of Utilization



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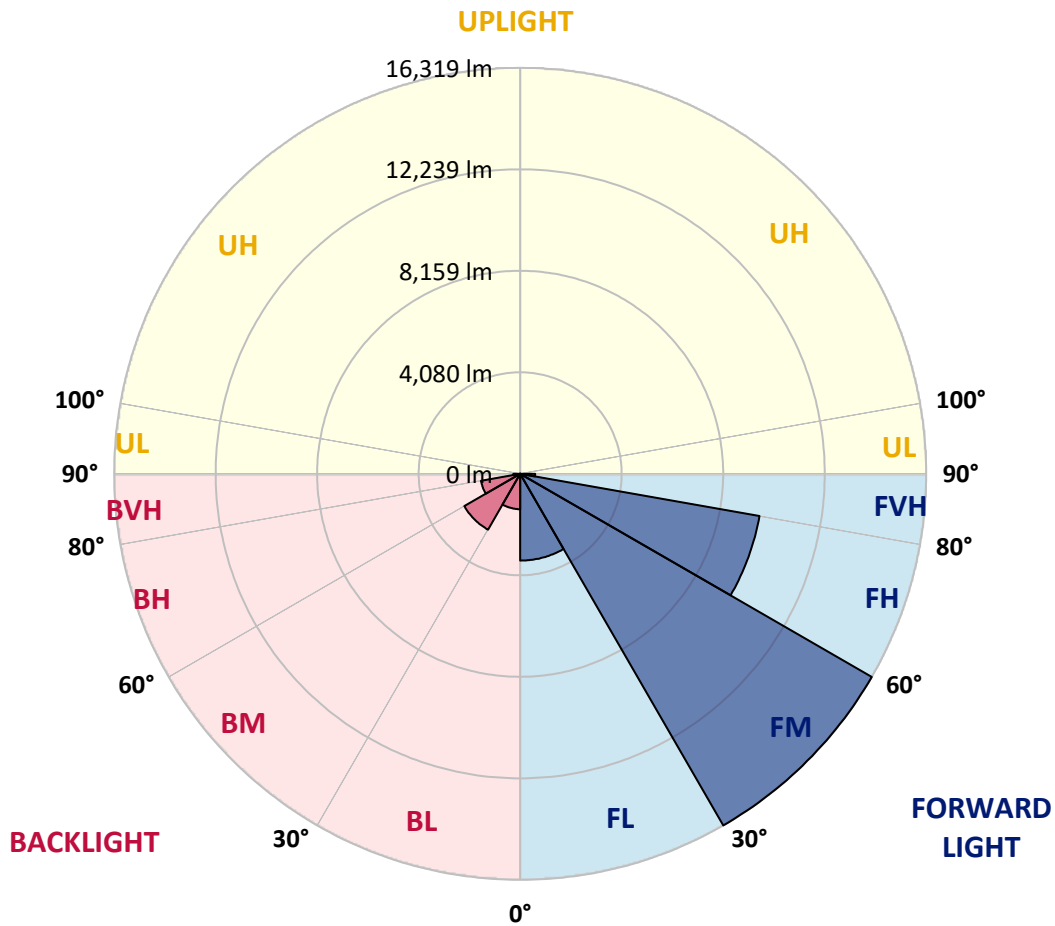
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3488.9	9.7			
FM (30°-60°)	16318.6	45.2			
FH (60°-80°)	9766.0	27.1			G4/12000
FVH (80°-90°)	605.3	1.7			G4/750
BL (0°-30°)	1422.2	3.9	B3/2500		
BM (30°-60°)	2592.6	7.2	B3/5000		
BH (60°-80°)	1597.1	4.4	B3/2500		G3/2500
BVH (80°-90°)	276.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3
2.5°	5748.2	5705.5	5700.8	5634.4	5572.7	5406.7	5288.1	5079.5	4870.8	4866.0	4657.4
5°	6644.6	6601.9	6578.2	6497.5	6393.2	6175.0	5961.6	5639.1	5283.4	5259.7	4866.0
7.5°	7251.6	7213.7	7166.3	7133.1	7033.5	6839.0	6578.2	6194.0	5705.5	5658.1	5107.9
10°	7659.5	7635.8	7626.3	7602.6	7540.9	7384.4	7133.1	6725.2	6127.6	6075.4	5364.0
12.5°	7835.0	7825.5	7868.2	7934.6	7958.3	7896.6	7654.8	7270.6	6592.4	6535.5	5672.3
15°	7631.0	7640.5	7749.6	7977.3	8219.1	8351.9	8209.7	7835.0	7118.8	7038.2	6032.7
17.5°	7536.2	7550.4	7626.3	7844.5	8185.9	8598.6	8665.0	8370.9	7626.3	7512.5	6412.2
20°	7702.2	7721.2	7778.1	7948.8	8185.9	8627.0	8973.2	8883.1	8124.3	8005.7	6777.4
22.5°	8124.3	8148.0	8143.3	8252.3	8413.6	8717.1	9144.0	9366.9	8646.0	8513.2	7156.8
25°	9025.4	9006.4	8845.2	8793.0	8835.7	9030.2	9371.6	9831.7	9191.4	9058.6	7555.2
27.5°	10249.0	10225.3	9931.3	9665.7	9428.5	9513.9	9694.1	10206.3	9746.3	9594.5	7934.6
30°	11558.0	11529.6	11188.1	10756.5	10230.1	10106.7	10083.0	10533.6	10305.9	10144.7	8337.7
32.5°	12833.8	12810.1	12444.9	11942.2	11216.5	10846.6	10619.0	10898.8	10941.5	10785.0	8778.8
35°	13995.8	13995.8	13682.8	13085.2	12264.7	11705.0	11330.4	11349.3	11671.8	11491.6	9281.5
37.5°	15029.7	15025.0	14683.5	14095.4	13308.1	12667.8	12203.0	11894.8	12369.0	12212.5	9808.0
40°	15850.2	15817.0	15565.6	15053.4	14261.4	13625.9	13156.3	12535.0	13146.8	13004.6	10367.6
42.5°	16447.8	16428.8	16258.1	15812.2	15058.2	14460.6	14138.1	13341.3	14029.0	13886.7	11022.1
45°	16680.2	16718.1	16718.1	16296.0	15698.4	15153.0	15010.7	14228.2	14982.3	14840.0	11724.0
47.5°	16305.5	16405.1	16609.0	16637.5	16111.0	15741.1	15788.5	15119.8	15964.0	15888.1	12492.3
50°	15134.0	15319.0	15764.8	16571.1	16277.0	16191.7	16452.5	16030.4	17016.9	16993.2	13426.7
52.5°	12112.9	12563.5	13953.1	15399.6	16163.2	16400.3	17111.8	17054.8	18373.3	18411.3	14645.5
55°	9291.0	9461.7	11069.5	13531.0	15466.0	16333.9	17552.8	18055.6	19843.6	19891.0	15764.8
57.5°	7512.5	7626.3	8503.7	11069.5	13877.2	15973.5	17899.0	18638.9	20972.3	21095.6	16760.8
60°	5952.1	6118.1	6706.2	8470.5	11652.9	15105.6	18140.9	19288.7	22186.5	22371.4	17951.2
62.5°	4425.0	4505.6	5060.5	6274.6	9224.6	13545.2	18012.9	19995.3	23675.7	23898.6	19383.5
65°	3149.2	3220.3	3614.0	4462.9	6820.0	11434.7	17268.3	20521.8	25544.3	25772.0	20825.3
67.5°	2357.1	2385.6	2608.5	3120.7	4595.7	8883.1	15760.1	20431.7	26910.2	27114.2	21403.9
70°	1863.9	1873.4	1982.5	2257.5	2987.9	6184.5	13118.4	19108.4	27009.8	27190.0	20673.5
72.5°	1546.1	1541.4	1603.0	1735.8	2082.1	3912.7	9717.8	16651.7	25729.3	25852.6	18634.2
75°	1275.8	1285.3	1328.0	1403.8	1588.8	2580.0	6298.3	13284.4	22698.7	22565.9	15636.8
77.5°	1071.9	1067.1	1086.1	1152.5	1285.3	1854.4	3689.8	9599.3	16822.4	16756.1	10263.3
80°	863.2	872.7	901.1	958.0	1081.3	1413.3	2181.7	5990.1	9025.4	8783.5	4904.0
82.5°	578.6	668.7	725.6	792.0	934.3	1043.4	1384.9	3044.8	4036.1	3974.4	2224.3
85°	275.1	365.2	540.7	616.6	758.8	654.5	939.1	1451.3	2020.4	1996.7	801.5
87.5°	56.9	56.9	289.3	346.2	469.5	279.8	521.7	630.8	977.0	915.3	327.2
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°	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3
2.5°	4534.0	4406.0	4149.9	3945.9	3737.3	3618.7	3471.7	3400.5	3386.3	3348.4	3376.8
5°	4614.7	4363.3	3879.6	3561.8	3348.4	3244.0	3191.9	3172.9	3168.1	3158.7	3158.7
7.5°	4723.8	4339.6	3708.8	3386.3	3248.8	3215.6	3229.8	3258.3	3263.0	3272.5	3267.7
10°	4856.6	4344.3	3614.0	3343.6	3277.2	3282.0	3329.4	3367.3	3386.3	3400.5	3395.8
12.5°	5041.5	4401.2	3599.7	3372.1	3343.6	3362.6	3410.0	3448.0	3466.9	3471.7	3471.7
15°	5283.4	4519.8	3632.9	3433.7	3410.0	3424.2	3452.7	3466.9	3471.7	3466.9	3466.9
17.5°	5549.0	4662.1	3680.4	3471.7	3433.7	3419.5	3410.0	3395.8	3367.3	3348.4	3348.4
20°	5805.1	4790.2	3704.1	3466.9	3400.5	3343.6	3286.7	3215.6	3168.1	3130.2	3130.2
22.5°	6061.2	4908.7	3704.1	3414.8	3310.4	3201.3	3082.8	2968.9	2897.8	2850.4	2850.4
25°	6331.5	5022.5	3675.6	3324.7	3168.1	3011.6	2850.4	2708.1	2637.0	2589.5	2580.0
27.5°	6559.2	5088.9	3599.7	3196.6	2992.7	2793.5	2608.5	2461.5	2409.3	2366.6	2366.6
30°	6801.1	5131.6	3457.4	3030.6	2793.5	2565.8	2376.1	2257.5	2200.6	2139.0	2134.2
32.5°	7071.4	5160.1	3296.2	2855.1	2589.5	2347.6	2186.4	2091.5	1968.2	1901.8	1892.3
35°	7384.4	5198.0	3125.5	2655.9	2385.6	2167.4	2072.6	1916.1	1797.5	1740.6	1735.8
37.5°	7716.4	5226.5	2940.5	2480.4	2200.6	2048.9	1954.0	1769.0	1664.7	1579.3	1569.8
40°	8067.4	5226.5	2750.8	2309.7	2053.6	1996.7	1816.5	1650.5	1475.0	1432.3	1422.8
42.5°	8456.3	5217.0	2561.1	2143.7	1916.1	1878.1	1735.8	1560.4	1470.2	1432.3	1422.8
45°	8868.9	5183.8	2380.8	1954.0	1773.8	1697.9	1588.8	1541.4	1503.4	1503.4	1503.4
47.5°	9338.4	5155.3	2176.9	1783.3	1669.4	1584.1	1503.4	1475.0	1470.2	1484.5	1498.7
50°	9940.8	5145.9	2006.2	1660.0	1588.8	1489.2	1479.7	1456.0	1460.8	1460.8	1460.8
52.5°	10671.1	5060.5	1844.9	1569.8	1508.2	1389.6	1418.1	1441.8	1451.3	1446.5	1441.8
55°	11207.1	4908.7	1707.4	1508.2	1451.3	1351.7	1389.6	1427.6	1437.0	1422.8	1422.8
57.5°	11690.8	4695.3	1598.3	1460.8	1413.3	1328.0	1370.6	1408.6	1399.1	1394.4	1389.6
60°	12245.7	4491.4	1512.9	1437.0	1375.4	1318.5	1356.4	1380.1	1365.9	1356.4	1351.7
62.5°	12848.0	4292.2	1451.3	1437.0	1346.9	1313.7	1342.2	1351.7	1323.2	1313.7	1313.7
65°	13127.9	3979.1	1384.9	1437.0	1332.7	1304.2	1313.7	1304.2	1275.8	1275.8	1271.1
67.5°	12667.8	3462.2	1299.5	1418.1	1351.7	1290.0	1271.1	1256.8	1223.6	1223.6	1214.1
70°	11396.8	2845.6	1176.2	1356.4	1356.4	1285.3	1214.1	1180.9	1143.0	1157.2	1138.3
72.5°	9736.8	2257.5	1024.4	1252.1	1328.0	1280.5	1152.5	1100.3	1067.1	1081.3	1052.9
75°	7887.2	1750.1	844.2	1086.1	1256.8	1256.8	1090.8	1019.7	981.7	981.7	948.5
77.5°	5027.3	1294.8	687.7	901.1	1128.8	1223.6	1038.7	929.6	872.7	858.4	834.7
80°	2489.9	910.6	564.4	716.2	962.8	1147.7	1000.7	825.2	744.6	716.2	673.5
82.5°	1323.2	630.8	450.6	559.6	768.3	1033.9	953.3	711.4	611.8	569.1	521.7
85°	592.8	388.9	360.4	426.8	583.4	848.9	858.4	583.4	469.5	559.6	412.6
87.5°	218.2	175.5	175.5	218.2	336.7	355.7	607.1	374.7	298.8	203.9	161.3
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)