

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: P400327

Luminaire Tested: **ARCH-L-PA3-260-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400327
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-PA3-260-830-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27487 lumens
Efficiency: N/A
Efficacy: 105.3 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

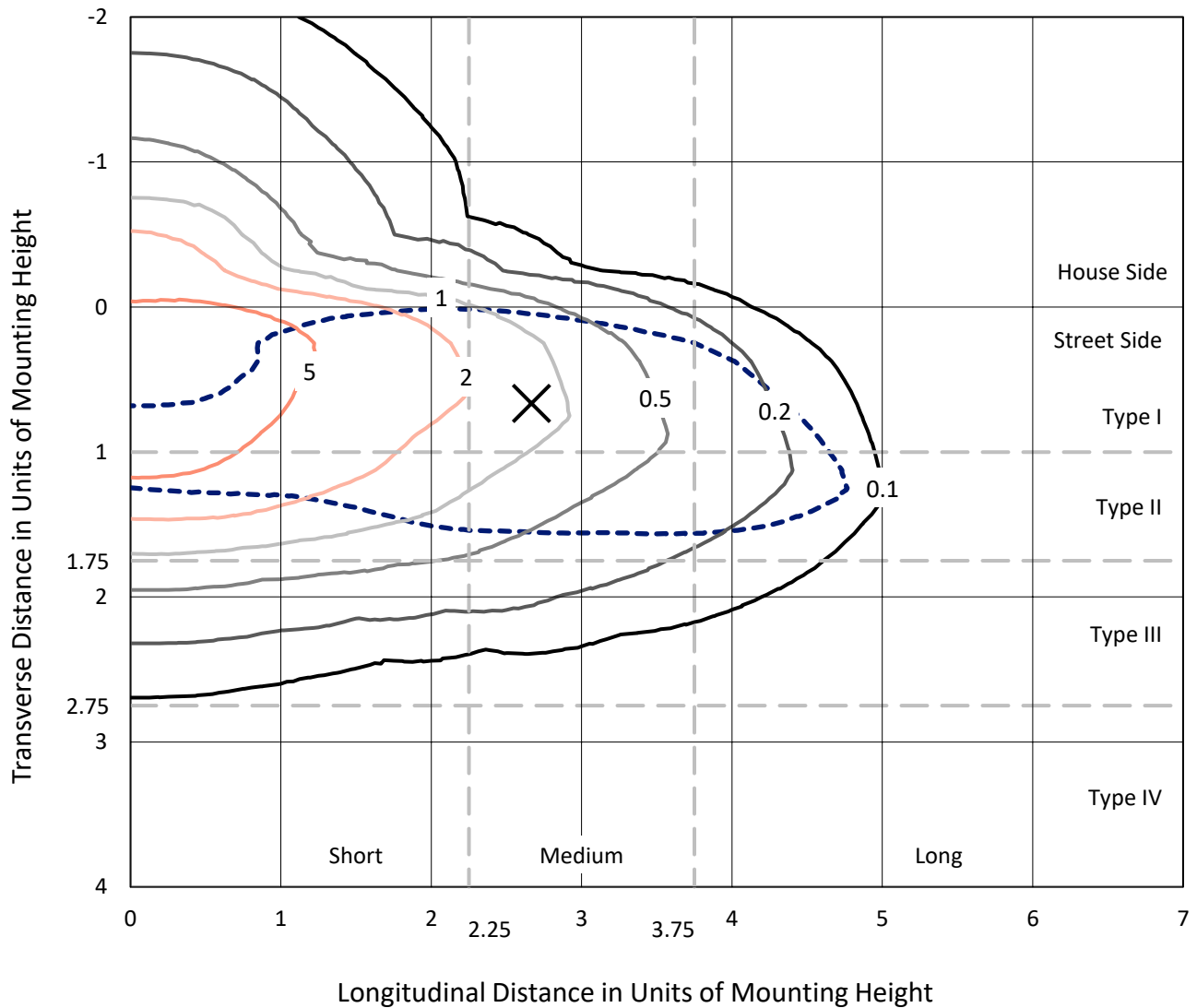
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

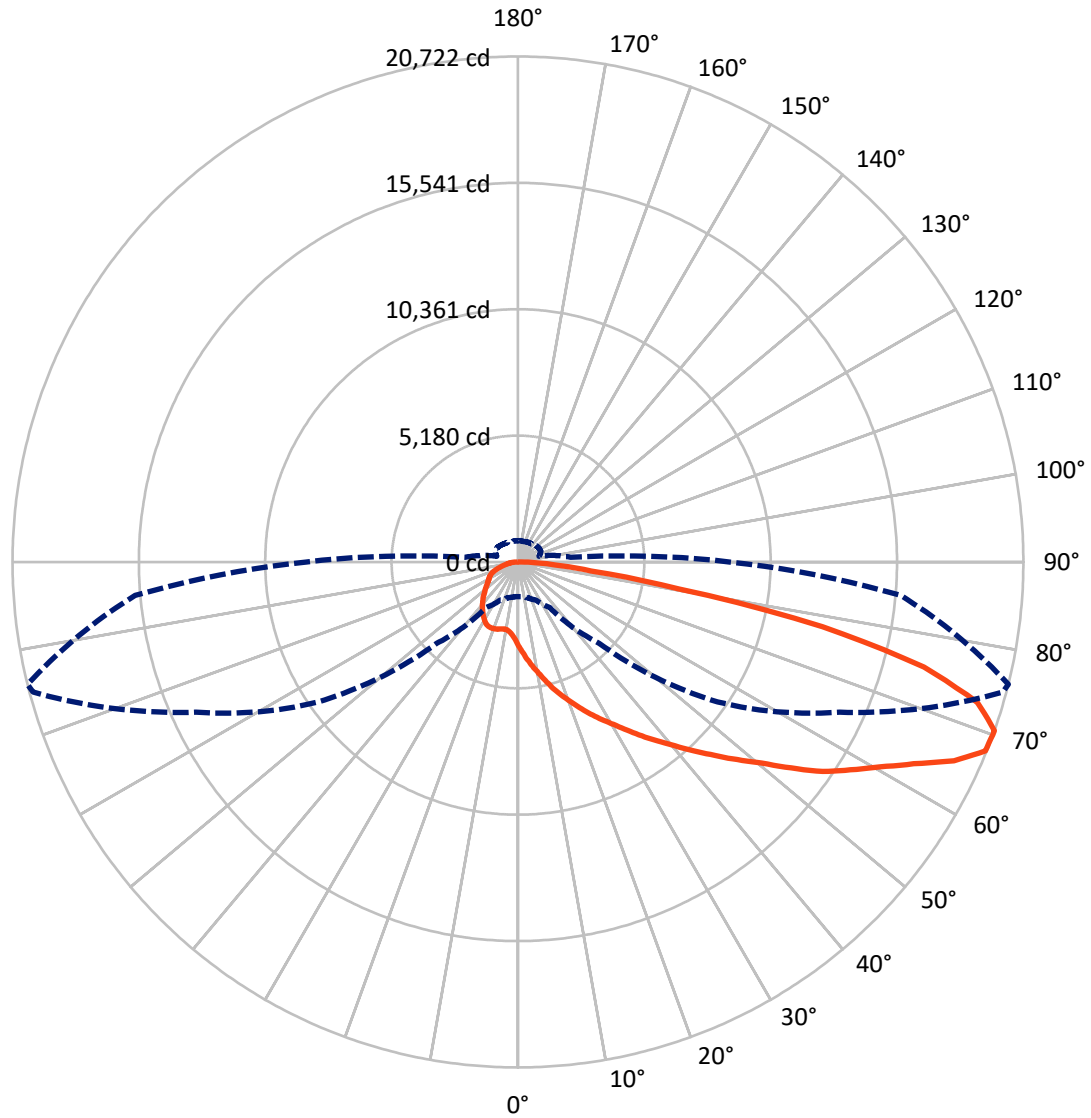
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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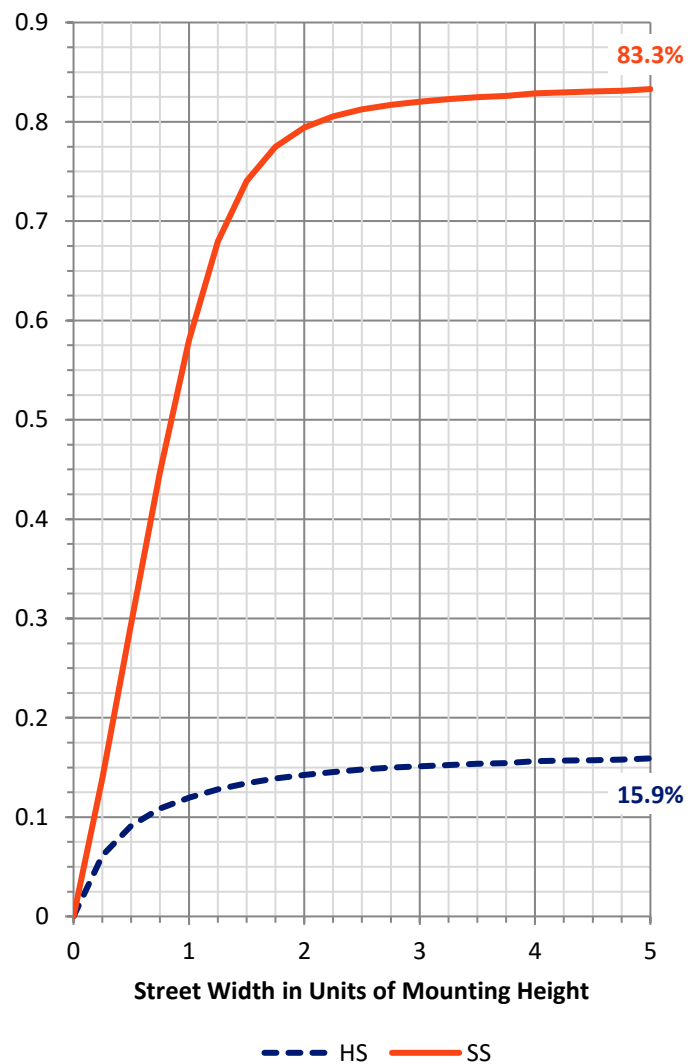
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4487.5	0.0	4487.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22999.5	0.0	22999.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	27487.0	0.0	27487.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	1.3
10°-20°	1213.9	4.4
20°-30°	2171.8	7.9
30°-40°	3513.1	12.8
40°-50°	5082.3	18.5
50°-60°	5817.0	21.2
60°-70°	5351.0	19.5
70°-80°	3308.9	12.0
80°-90°	671.9	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°	27487.0	100.0
0°-180°	27487.0	100.0



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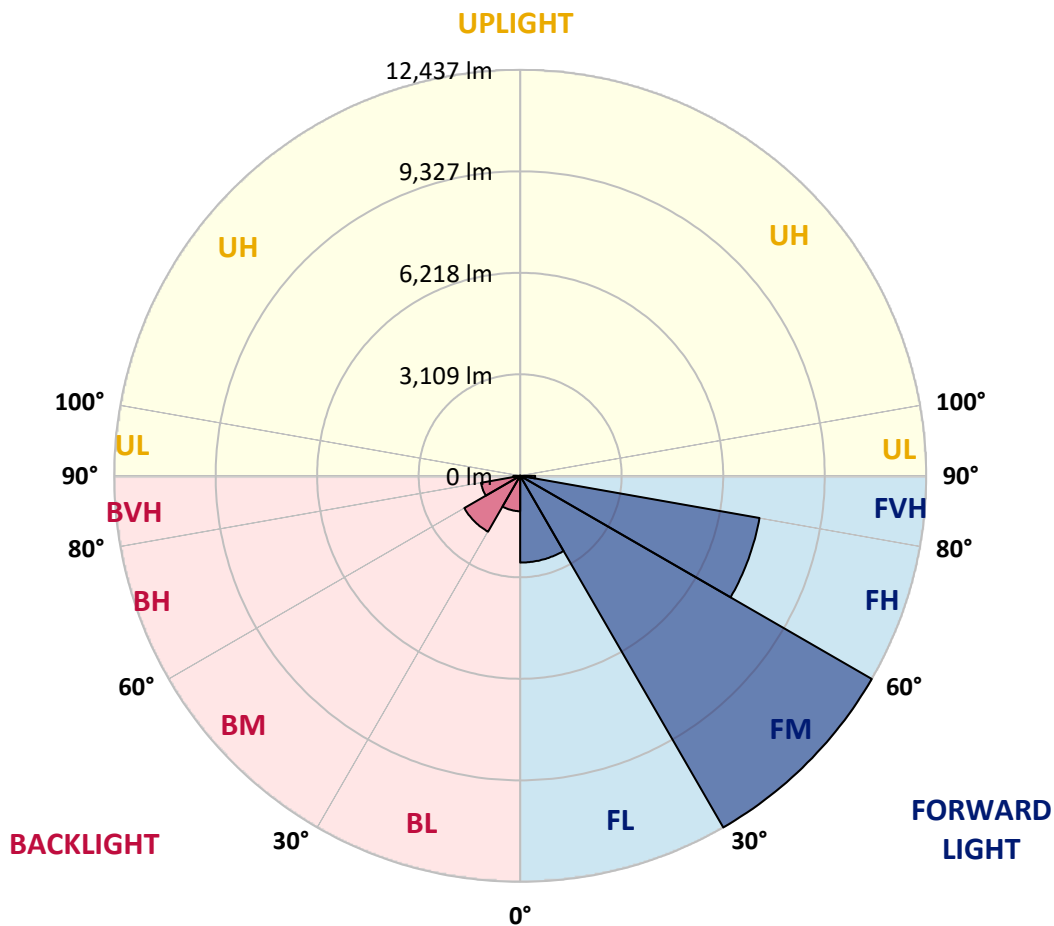
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2658.9	9.7			
FM (30°-60°)	12436.6	45.2			
FH (60°-80°)	7442.7	27.1			G3/7500
FVH (80°-90°)	461.3	1.7			G3/500
BL (0°-30°)	1083.9	3.9	B3/2500		
BM (30°-60°)	1975.8	7.2	B2/2500		
BH (60°-80°)	1217.2	4.4	B3/2500		G3/2500
BVH (80°-90°)	210.7	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°	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4
2.5°	4380.7	4348.2	4344.6	4294.0	4247.0	4120.5	4030.1	3871.1	3712.1	3708.5	3549.4
5°	5063.9	5031.4	5013.3	4951.8	4872.3	4706.0	4543.4	4297.6	4026.5	4008.5	3708.5
7.5°	5526.5	5497.6	5461.5	5436.2	5360.3	5212.1	5013.3	4720.5	4348.2	4312.1	3892.8
10°	5837.4	5819.3	5812.1	5794.0	5747.0	5627.7	5436.2	5125.3	4669.9	4630.1	4088.0
12.5°	5971.1	5963.9	5996.4	6047.0	6065.1	6018.1	5833.8	5541.0	5024.1	4980.7	4322.9
15°	5815.7	5822.9	5906.1	6079.5	6263.9	6365.1	6256.7	5971.1	5425.3	5363.9	4597.6
17.5°	5743.4	5754.2	5812.1	5978.3	6238.6	6553.0	6603.6	6379.6	5812.1	5725.3	4886.8
20°	5869.9	5884.4	5927.7	6057.9	6238.6	6574.7	6838.6	6769.9	6191.6	6101.2	5165.1
22.5°	6191.6	6209.7	6206.1	6289.2	6412.1	6643.4	6968.7	7138.6	6589.2	6488.0	5454.2
25°	6878.3	6863.9	6741.0	6701.2	6733.8	6882.0	7142.2	7492.8	7004.9	6903.6	5757.9
27.5°	7810.9	7792.8	7568.7	7366.3	7185.6	7250.6	7388.0	7778.4	7427.7	7312.1	6047.0
30°	8808.5	8786.8	8526.5	8197.6	7796.4	7702.4	7684.4	8027.8	7854.3	7731.4	6354.2
32.5°	9780.8	9762.7	9484.4	9101.3	8548.2	8266.3	8092.8	8306.1	8338.6	8219.3	6690.4
35°	10666.3	10666.3	10427.8	9972.3	9347.0	8920.5	8635.0	8649.4	8895.2	8757.9	7073.5
37.5°	11454.3	11450.7	11190.4	10742.2	10142.2	9654.3	9300.0	9065.1	9426.6	9307.3	7474.7
40°	12079.6	12054.3	11862.7	11472.3	10868.7	10384.4	10026.6	9553.1	10019.3	9910.9	7901.2
42.5°	12535.0	12520.5	12390.4	12050.7	11476.0	11020.5	10774.8	10167.5	10691.6	10583.2	8400.0
45°	12712.1	12741.0	12741.0	12419.3	11963.9	11548.3	11439.8	10843.4	11418.1	11309.7	8935.0
47.5°	12426.6	12502.5	12657.9	12679.6	12278.4	11996.4	12032.6	11523.0	12166.3	12108.5	9520.5
50°	11533.8	11674.8	12014.5	12629.0	12404.9	12339.8	12538.6	12216.9	12968.7	12950.7	10232.6
52.5°	9231.4	9574.7	10633.8	11736.2	12318.1	12498.9	13041.0	12997.7	14002.5	14031.4	11161.5
55°	7080.8	7210.9	8436.2	10312.1	11786.8	12448.3	13377.2	13760.3	15123.0	15159.1	12014.5
57.5°	5725.3	5812.1	6480.8	8436.2	10576.0	12173.6	13641.0	14204.9	15983.2	16077.2	12773.6
60°	4536.2	4662.7	5110.9	6455.5	8880.8	11512.1	13825.4	14700.1	16908.5	17049.5	13680.8
62.5°	3372.3	3433.8	3856.6	4782.0	7030.2	10322.9	13727.8	15238.6	18043.5	18213.3	14772.4
65°	2400.0	2454.2	2754.2	3401.2	5197.6	8714.5	13160.3	15639.8	19467.6	19641.1	15871.2
67.5°	1796.4	1818.1	1988.0	2378.3	3502.4	6769.9	12010.9	15571.2	20508.5	20664.0	16312.1
70°	1420.5	1427.7	1510.9	1720.5	2277.1	4713.3	9997.6	14562.7	20584.4	20721.8	15755.5
72.5°	1178.3	1174.7	1221.7	1322.9	1586.8	2981.9	7406.1	12690.4	19608.5	19702.5	14201.3
75°	972.3	979.5	1012.1	1069.9	1210.8	1966.3	4800.0	10124.1	17298.9	17197.7	11916.9
77.5°	816.9	813.3	827.7	878.3	979.5	1413.3	2812.1	7315.7	12820.5	12769.9	7821.7
80°	657.8	665.1	686.8	730.1	824.1	1077.1	1662.7	4565.1	6878.3	6694.0	3737.4
82.5°	441.0	509.6	553.0	603.6	712.1	795.2	1055.4	2320.5	3075.9	3028.9	1695.2
85°	209.6	278.3	412.1	469.9	578.3	498.8	715.7	1106.0	1539.8	1521.7	610.8
87.5°	43.4	43.4	220.5	263.9	357.8	213.3	397.6	480.7	744.6	697.6	249.4
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°	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4
2.5°	3455.4	3357.8	3162.7	3007.2	2848.2	2757.8	2645.8	2591.6	2580.7	2551.8	2573.5
5°	3516.9	3325.3	2956.6	2714.5	2551.8	2472.3	2432.5	2418.1	2414.5	2407.2	2407.2
7.5°	3600.0	3307.2	2826.5	2580.7	2475.9	2450.6	2461.5	2483.1	2486.8	2494.0	2490.4
10°	3701.2	3310.9	2754.2	2548.2	2497.6	2501.2	2537.4	2566.3	2580.7	2591.6	2588.0
12.5°	3842.2	3354.2	2743.4	2569.9	2548.2	2562.7	2598.8	2627.7	2642.2	2645.8	2645.8
15°	4026.5	3444.6	2768.7	2616.9	2598.8	2609.7	2631.3	2642.2	2645.8	2642.2	2642.2
17.5°	4228.9	3553.0	2804.8	2645.8	2616.9	2606.0	2598.8	2588.0	2566.3	2551.8	2551.8
20°	4424.1	3650.6	2822.9	2642.2	2591.6	2548.2	2504.8	2450.6	2414.5	2385.6	2385.6
22.5°	4619.3	3741.0	2822.9	2602.4	2522.9	2439.8	2349.4	2262.7	2208.4	2172.3	2172.3
25°	4825.3	3827.7	2801.2	2533.7	2414.5	2295.2	2172.3	2063.9	2009.6	1973.5	1966.3
27.5°	4998.8	3878.3	2743.4	2436.2	2280.7	2128.9	1988.0	1875.9	1836.2	1803.6	1803.6
30°	5183.2	3910.9	2635.0	2309.7	2128.9	1955.4	1810.9	1720.5	1677.1	1630.1	1626.5
32.5°	5389.2	3932.6	2512.1	2175.9	1973.5	1789.2	1666.3	1594.0	1500.0	1449.4	1442.2
35°	5627.7	3961.5	2381.9	2024.1	1818.1	1651.8	1579.5	1460.2	1369.9	1326.5	1322.9
37.5°	5880.8	3983.2	2241.0	1890.4	1677.1	1561.5	1489.2	1348.2	1268.7	1203.6	1196.4
40°	6148.2	3983.2	2096.4	1760.2	1565.1	1521.7	1384.3	1257.8	1124.1	1091.6	1084.3
42.5°	6444.6	3975.9	1951.8	1633.7	1460.2	1431.3	1322.9	1189.2	1120.5	1091.6	1084.3
45°	6759.1	3950.6	1814.5	1489.2	1351.8	1294.0	1210.8	1174.7	1145.8	1145.8	1145.8
47.5°	7116.9	3928.9	1659.0	1359.0	1272.3	1207.2	1145.8	1124.1	1120.5	1131.3	1142.2
50°	7575.9	3921.7	1528.9	1265.1	1210.8	1134.9	1127.7	1109.6	1113.3	1113.3	1113.3
52.5°	8132.6	3856.6	1406.0	1196.4	1149.4	1059.0	1080.7	1098.8	1106.0	1102.4	1098.8
55°	8541.0	3741.0	1301.2	1149.4	1106.0	1030.1	1059.0	1088.0	1095.2	1084.3	1084.3
57.5°	8909.7	3578.3	1218.1	1113.3	1077.1	1012.1	1044.6	1073.5	1066.3	1062.7	1059.0
60°	9332.6	3422.9	1153.0	1095.2	1048.2	1004.8	1033.7	1051.8	1041.0	1033.7	1030.1
62.5°	9791.6	3271.1	1106.0	1095.2	1026.5	1001.2	1022.9	1030.1	1008.4	1001.2	1001.2
65°	10004.9	3032.5	1055.4	1095.2	1015.7	994.0	1001.2	994.0	972.3	972.3	968.7
67.5°	9654.3	2638.6	990.4	1080.7	1030.1	983.1	968.7	957.8	932.5	932.5	925.3
70°	8685.6	2168.7	896.4	1033.7	1033.7	979.5	925.3	900.0	871.1	881.9	867.5
72.5°	7420.5	1720.5	780.7	954.2	1012.1	975.9	878.3	838.6	813.3	824.1	802.4
75°	6010.9	1333.7	643.4	827.7	957.8	957.8	831.3	777.1	748.2	748.2	722.9
77.5°	3831.3	986.8	524.1	686.8	860.2	932.5	791.6	708.4	665.1	654.2	636.1
80°	1897.6	694.0	430.1	545.8	733.7	874.7	762.7	628.9	567.5	545.8	513.3
82.5°	1008.4	480.7	343.4	426.5	585.5	788.0	726.5	542.2	466.3	433.7	397.6
85°	451.8	296.4	274.7	325.3	444.6	647.0	654.2	444.6	357.8	426.5	314.5
87.5°	166.3	133.7	133.7	166.3	256.6	271.1	462.7	285.5	227.7	155.4	122.9
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)