

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: P400228

Luminaire Tested: **ARCH-L-PA3-250-750-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400228
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-PA3-250-750-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33789 lumens
Efficiency: N/A
Efficacy: 134.6 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

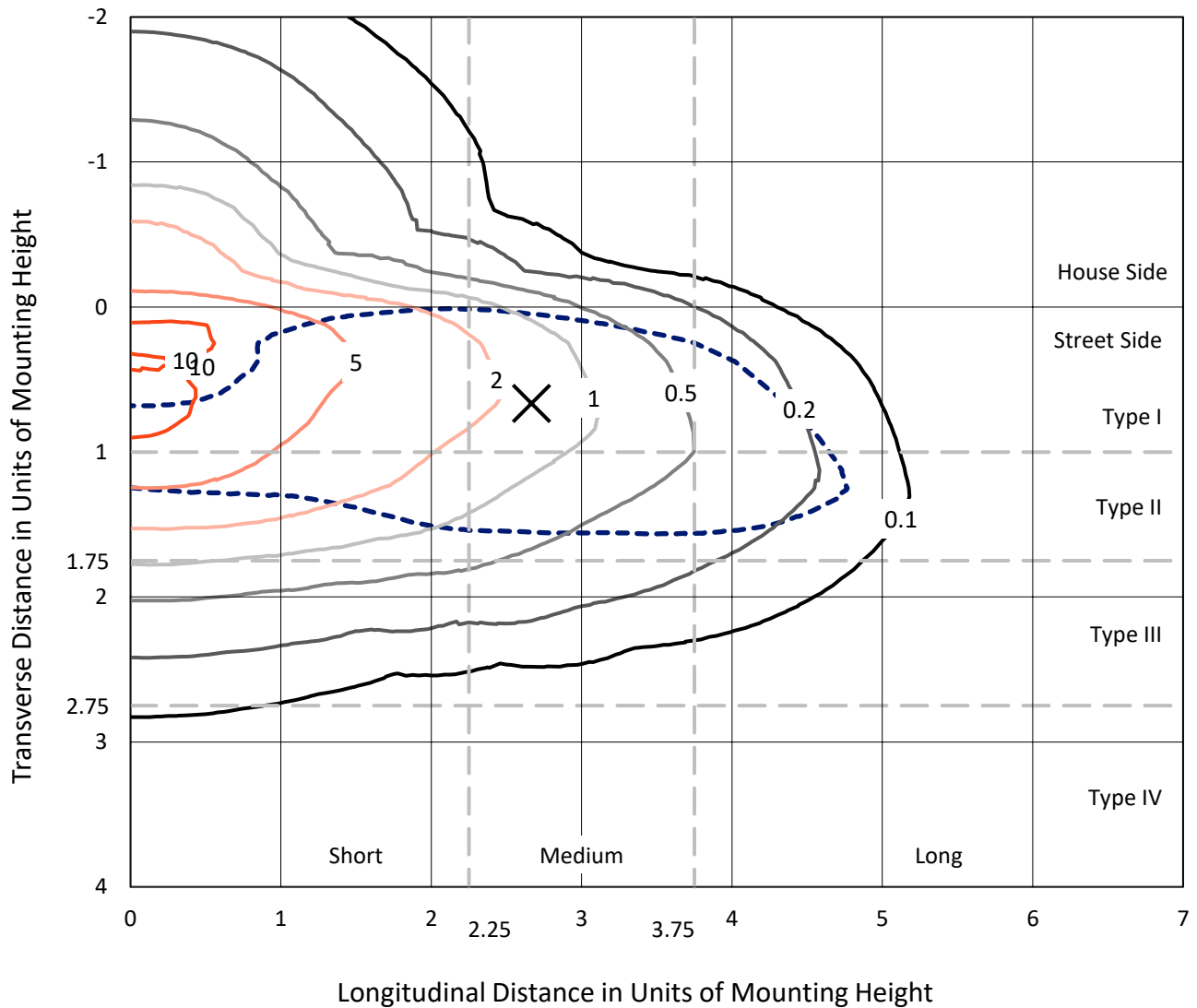
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

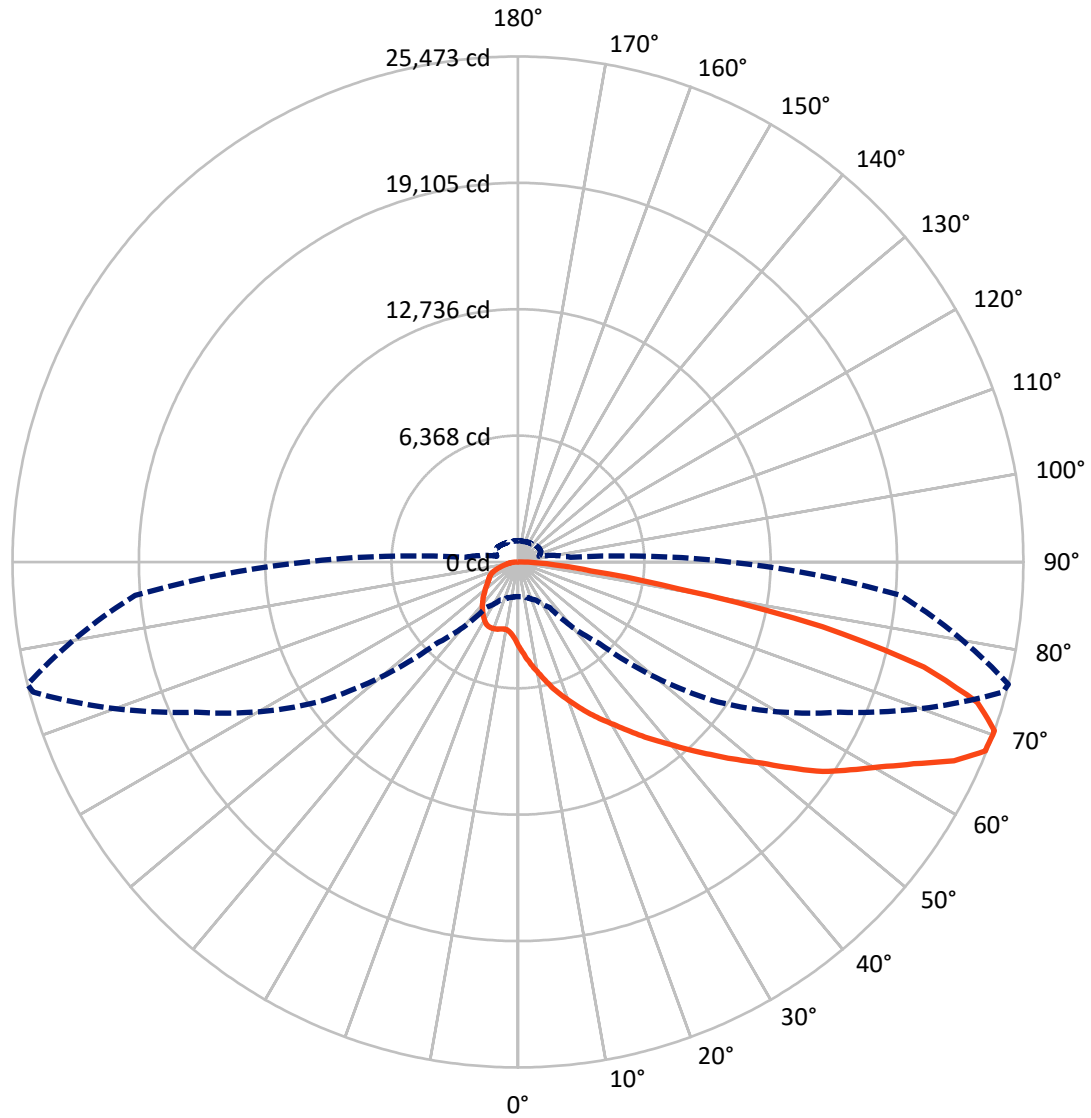
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	5516.4	0.0	5516.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	28272.6	0.0	28272.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	33789.0	0.0	33789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.0	1.3
10°-20°	1492.2	4.4
20°-30°	2669.7	7.9
30°-40°	4318.6	12.8
40°-50°	6247.5	18.5
50°-60°	7150.6	21.2
60°-70°	6577.8	19.5
70°-80°	4067.6	12.0
80°-90°	826.0	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°	33789.0	100.0
0°-180°	33789.0	100.0

Coefficient of Utilization



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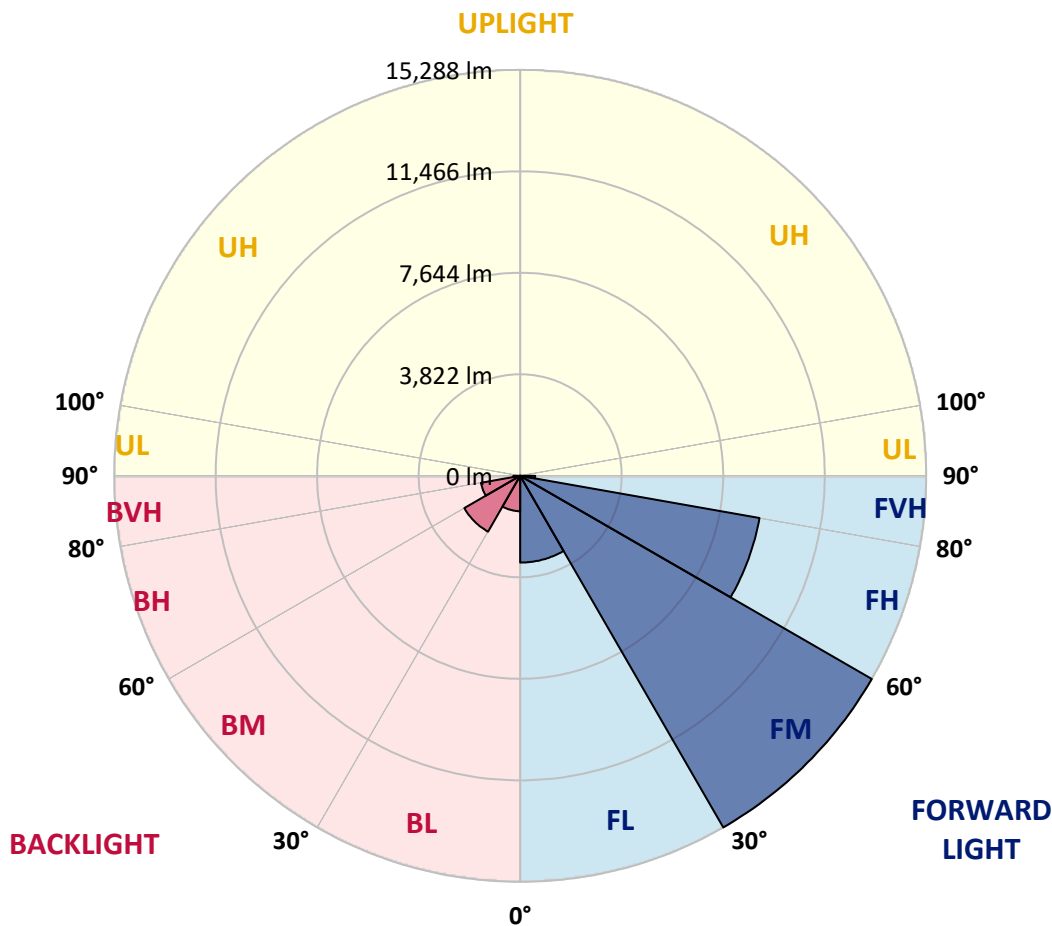
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3268.5	9.7			
FM (30°-60°)	15287.9	45.2			
FH (60°-80°)	9149.1	27.1			G4/12000
FVH (80°-90°)	567.0	1.7			G4/750
BL (0°-30°)	1332.4	3.9	B3/2500		
BM (30°-60°)	2428.8	7.2	B2/2500		
BH (60°-80°)	1496.2	4.4	B3/2500		G3/2500
BVH (80°-90°)	258.9	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°	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5
2.5°	5385.1	5345.1	5340.7	5278.5	5220.7	5065.2	4954.1	4758.6	4563.1	4558.7	4363.2
5°	6224.9	6184.9	6162.7	6087.1	5989.4	5785.0	5585.1	5282.9	4949.7	4927.5	4558.7
7.5°	6793.6	6758.1	6713.6	6682.5	6589.2	6407.1	6162.7	5802.8	5345.1	5300.7	4785.3
10°	7175.7	7153.5	7144.6	7122.4	7064.6	6918.0	6682.5	6300.4	5740.6	5691.7	5025.2
12.5°	7340.1	7331.2	7371.2	7433.4	7455.6	7397.9	7171.3	6811.4	6176.0	6122.7	5314.0
15°	7149.1	7158.0	7260.1	7473.4	7700.0	7824.4	7691.1	7340.1	6669.2	6593.7	5651.7
17.5°	7060.2	7073.5	7144.6	7349.0	7668.9	8055.5	8117.7	7842.2	7144.6	7038.0	6007.2
20°	7215.7	7233.5	7286.8	7446.8	7668.9	8082.1	8406.5	8322.1	7611.2	7500.1	6349.3
22.5°	7611.2	7633.4	7628.9	7731.1	7882.2	8166.6	8566.4	8775.3	8099.9	7975.5	6704.8
25°	8455.4	8437.6	8286.5	8237.6	8277.6	8459.8	8779.7	9210.7	8610.9	8486.5	7078.0
27.5°	9601.7	9579.5	9304.0	9055.2	8833.0	8913.0	9081.8	9561.7	9130.7	8988.5	7433.4
30°	10828.0	10801.4	10481.4	10077.1	9583.9	9468.4	9446.2	9868.3	9655.0	9504.0	7811.1
32.5°	12023.2	12001.0	11658.9	11187.9	10508.1	10161.5	9948.3	10210.4	10250.4	10103.8	8224.3
35°	13111.8	13111.8	12818.6	12258.7	11490.0	10965.8	10614.7	10632.5	10934.7	10765.8	8695.3
37.5°	14080.4	14076.0	13756.1	13205.1	12467.5	11867.7	11432.3	11143.5	11587.8	11441.2	9188.5
40°	14849.1	14818.0	14582.5	14102.6	13360.6	12765.2	12325.4	11743.3	12316.5	12183.2	9712.8
42.5°	15408.9	15391.2	15231.2	14813.5	14107.1	13547.2	13245.1	12498.7	13142.9	13009.6	10325.9
45°	15626.6	15662.2	15662.2	15266.7	14706.9	14195.9	14062.6	13329.5	14036.0	13902.7	10983.5
47.5°	15275.6	15368.9	15560.0	15586.7	15093.5	14746.9	14791.3	14164.8	14955.7	14884.6	11703.3
50°	14178.2	14351.5	14769.1	15524.5	15249.0	15169.0	15413.4	15017.9	15942.1	15919.9	12578.6
52.5°	11347.9	11770.0	13071.8	14427.0	15142.3	15364.5	16031.0	15977.7	17212.9	17248.4	13720.5
55°	8704.2	8864.1	10370.4	12676.4	14489.2	15302.3	16444.2	16915.2	18590.2	18634.7	14769.1
57.5°	7038.0	7144.6	7966.6	10370.4	13000.7	14964.6	16768.5	17461.7	19647.7	19763.2	15702.2
60°	5576.2	5731.7	6282.6	7935.5	10916.9	14151.5	16995.1	18070.4	20785.2	20958.5	16817.4
62.5°	4145.5	4221.0	4740.9	5878.3	8642.0	12689.7	16875.2	18732.4	22180.3	22389.2	18159.3
65°	2950.3	3016.9	3385.7	4181.0	6389.3	10712.5	16177.6	19225.6	23930.9	24144.2	19510.0
67.5°	2208.3	2234.9	2443.7	2923.6	4305.4	8322.1	14764.7	19141.2	25210.6	25401.6	20052.0
70°	1746.2	1755.1	1857.2	2115.0	2799.2	5793.9	12289.8	17901.6	25303.9	25472.7	19367.8
72.5°	1448.5	1444.0	1501.8	1626.2	1950.6	3665.6	9104.1	15600.0	24104.2	24219.7	17457.2
75°	1195.2	1204.1	1244.1	1315.2	1488.5	2417.1	5900.5	12445.3	21265.0	21140.6	14649.1
77.5°	1004.2	999.7	1017.5	1079.7	1204.1	1737.3	3456.8	8993.0	15759.9	15697.7	9615.0
80°	808.7	817.5	844.2	897.5	1013.0	1324.1	2043.9	5611.7	8455.4	8228.8	4594.2
82.5°	542.1	626.5	679.8	742.0	875.3	977.5	1297.4	2852.5	3781.1	3723.4	2083.8
85°	257.7	342.1	506.5	577.6	710.9	613.2	879.7	1359.6	1892.8	1870.6	750.9
87.5°	53.3	53.3	271.0	324.4	439.9	262.1	488.7	590.9	915.3	857.5	306.6
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°	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5	4225.5
2.5°	4247.7	4127.7	3887.8	3696.7	3501.2	3390.1	3252.4	3185.8	3172.4	3136.9	3163.5
5°	4323.2	4087.7	3634.5	3336.8	3136.9	3039.1	2990.3	2972.5	2968.0	2959.2	2959.2
7.5°	4425.4	4065.5	3474.6	3172.4	3043.6	3012.5	3025.8	3052.5	3056.9	3065.8	3061.3
10°	4549.8	4069.9	3385.7	3132.4	3070.2	3074.7	3119.1	3154.7	3172.4	3185.8	3181.3
12.5°	4723.1	4123.3	3372.4	3159.1	3132.4	3150.2	3194.6	3230.2	3248.0	3252.4	3252.4
15°	4949.7	4234.3	3403.5	3216.9	3194.6	3208.0	3234.6	3248.0	3252.4	3248.0	3248.0
17.5°	5198.5	4367.6	3447.9	3252.4	3216.9	3203.5	3194.6	3181.3	3154.7	3136.9	3136.9
20°	5438.4	4487.6	3470.1	3248.0	3185.8	3132.4	3079.1	3012.5	2968.0	2932.5	2932.5
22.5°	5678.4	4598.7	3470.1	3199.1	3101.3	2999.1	2888.1	2781.4	2714.8	2670.3	2670.3
25°	5931.6	4705.3	3443.5	3114.7	2968.0	2821.4	2670.3	2537.1	2470.4	2426.0	2417.1
27.5°	6144.9	4767.5	3372.4	2994.7	2803.6	2617.0	2443.7	2306.0	2257.1	2217.1	2217.1
30°	6371.5	4807.5	3239.1	2839.2	2617.0	2403.8	2226.0	2115.0	2061.6	2003.9	1999.4
32.5°	6624.8	4834.2	3088.0	2674.8	2426.0	2199.4	2048.3	1959.4	1843.9	1781.7	1772.8
35°	6918.0	4869.7	2928.1	2488.2	2234.9	2030.5	1941.7	1795.0	1684.0	1630.6	1626.2
37.5°	7229.0	4896.4	2754.8	2323.8	2061.6	1919.5	1830.6	1657.3	1559.6	1479.6	1470.7
40°	7557.8	4896.4	2577.0	2163.8	1923.9	1870.6	1701.7	1546.2	1381.8	1341.8	1333.0
42.5°	7922.2	4887.5	2399.3	2008.3	1795.0	1759.5	1626.2	1461.8	1377.4	1341.8	1333.0
45°	8308.7	4856.4	2230.5	1830.6	1661.7	1590.7	1488.5	1444.0	1408.5	1408.5	1408.5
47.5°	8748.6	4829.7	2039.4	1670.6	1564.0	1484.0	1408.5	1381.8	1377.4	1390.7	1404.0
50°	9312.9	4820.8	1879.5	1555.1	1488.5	1395.2	1386.3	1364.1	1368.5	1368.5	1368.5
52.5°	9997.1	4740.9	1728.4	1470.7	1412.9	1301.9	1328.5	1350.7	1359.6	1355.2	1350.7
55°	10499.2	4598.7	1599.5	1412.9	1359.6	1266.3	1301.9	1337.4	1346.3	1333.0	1333.0
57.5°	10952.4	4398.7	1497.3	1368.5	1324.1	1244.1	1284.1	1319.6	1310.7	1306.3	1301.9
60°	11472.3	4207.7	1417.4	1346.3	1288.5	1235.2	1270.7	1293.0	1279.6	1270.7	1266.3
62.5°	12036.6	4021.1	1359.6	1346.3	1261.9	1230.8	1257.4	1266.3	1239.6	1230.8	1230.8
65°	12298.7	3727.8	1297.4	1346.3	1248.5	1221.9	1230.8	1221.9	1195.2	1195.2	1190.8
67.5°	11867.7	3243.5	1217.4	1328.5	1266.3	1208.5	1190.8	1177.4	1146.3	1146.3	1137.5
70°	10676.9	2665.9	1101.9	1270.7	1270.7	1204.1	1137.5	1106.4	1070.8	1084.1	1066.4
72.5°	9121.8	2115.0	959.7	1173.0	1244.1	1199.7	1079.7	1030.8	999.7	1013.0	986.4
75°	7389.0	1639.5	790.9	1017.5	1177.4	1177.4	1021.9	955.3	919.7	919.7	888.6
77.5°	4709.8	1213.0	644.3	844.2	1057.5	1146.3	973.1	870.9	817.5	804.2	782.0
80°	2332.7	853.1	528.7	670.9	902.0	1075.2	937.5	773.1	697.6	670.9	630.9
82.5°	1239.6	590.9	422.1	524.3	719.8	968.6	893.1	666.5	573.2	533.2	488.7
85°	555.4	364.3	337.7	399.9	546.5	795.3	804.2	546.5	439.9	524.3	386.6
87.5°	204.4	164.4	164.4	204.4	315.5	333.2	568.7	351.0	279.9	191.1	151.1
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)