

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: P399850

Luminaire Tested: **ARCH-L-PA3-200-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399850
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-PA3-200-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26608 lumens
Efficiency: N/A
Efficacy: 132.4 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

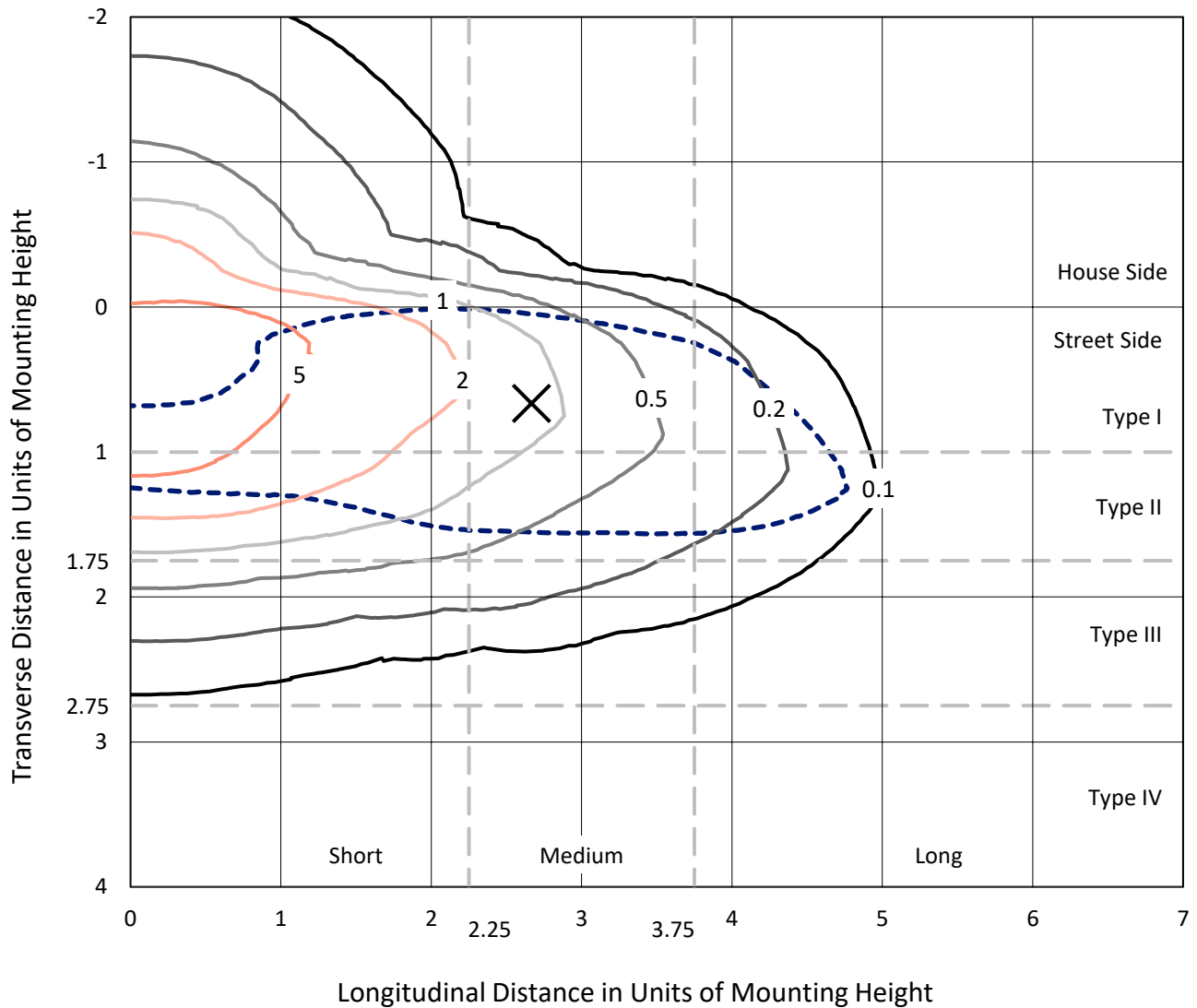
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

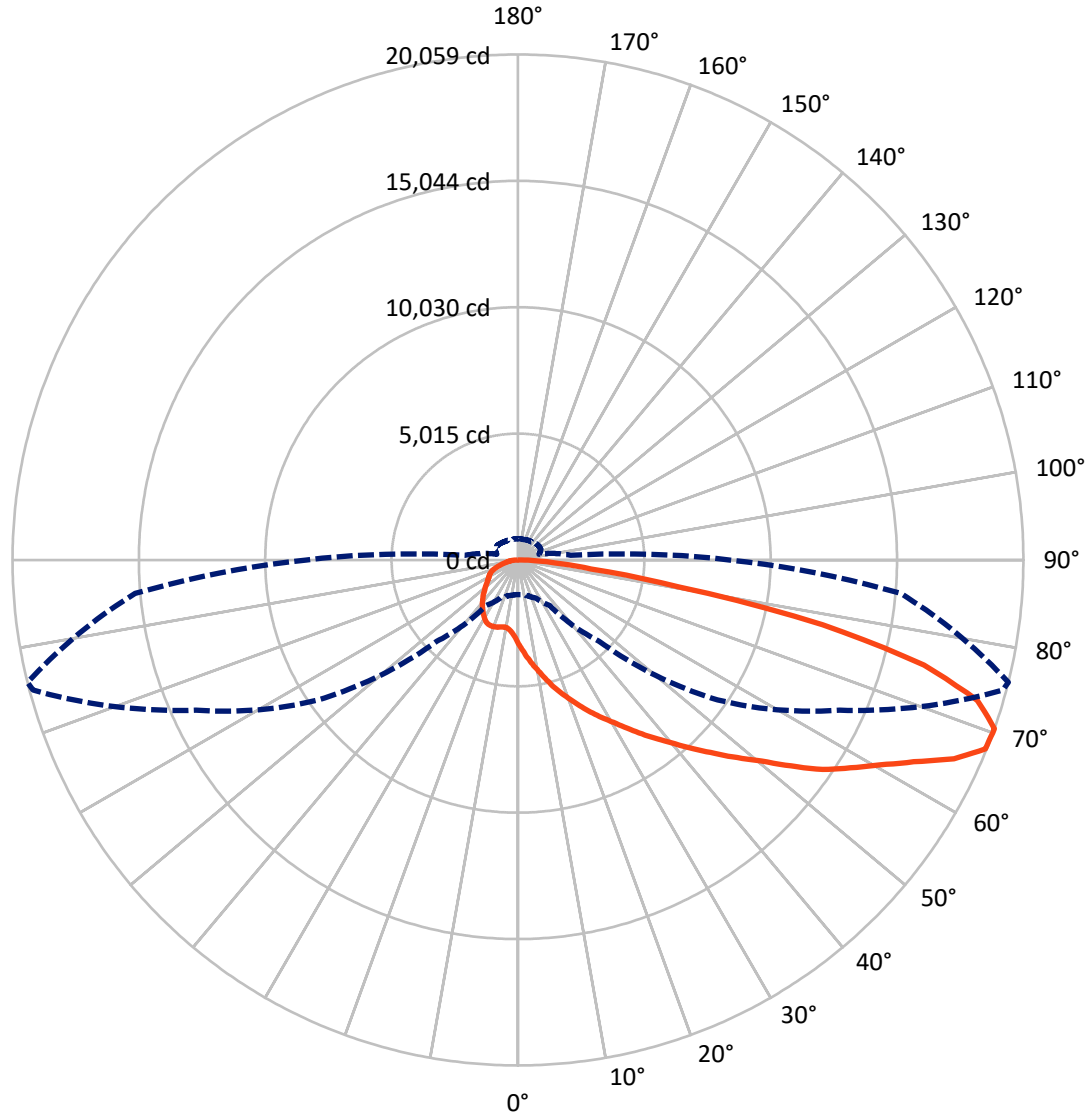
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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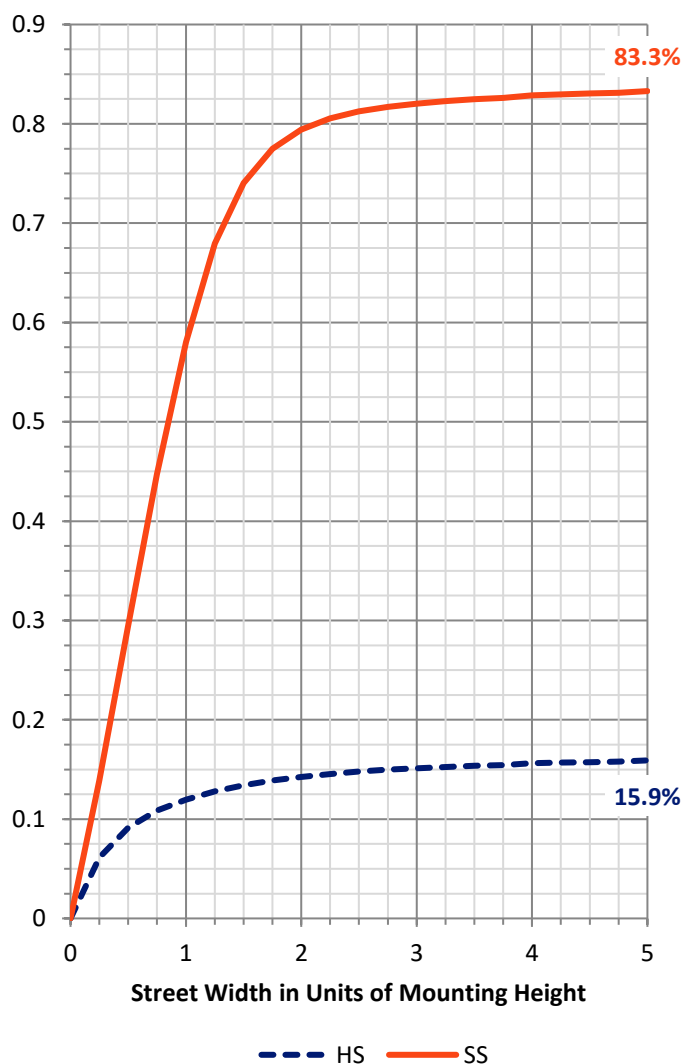
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4344.0	0.0	4344.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22264.0	0.0	22264.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	26608.0	0.0	26608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	1.3
10°-20°	1175.0	4.4
20°-30°	2102.3	7.9
30°-40°	3400.8	12.8
40°-50°	4919.8	18.5
50°-60°	5631.0	21.2
60°-70°	5179.8	19.5
70°-80°	3203.1	12.0
80°-90°	650.4	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°	26608.0	100.0
0°-180°	26608.0	100.0

Coefficient of Utilization

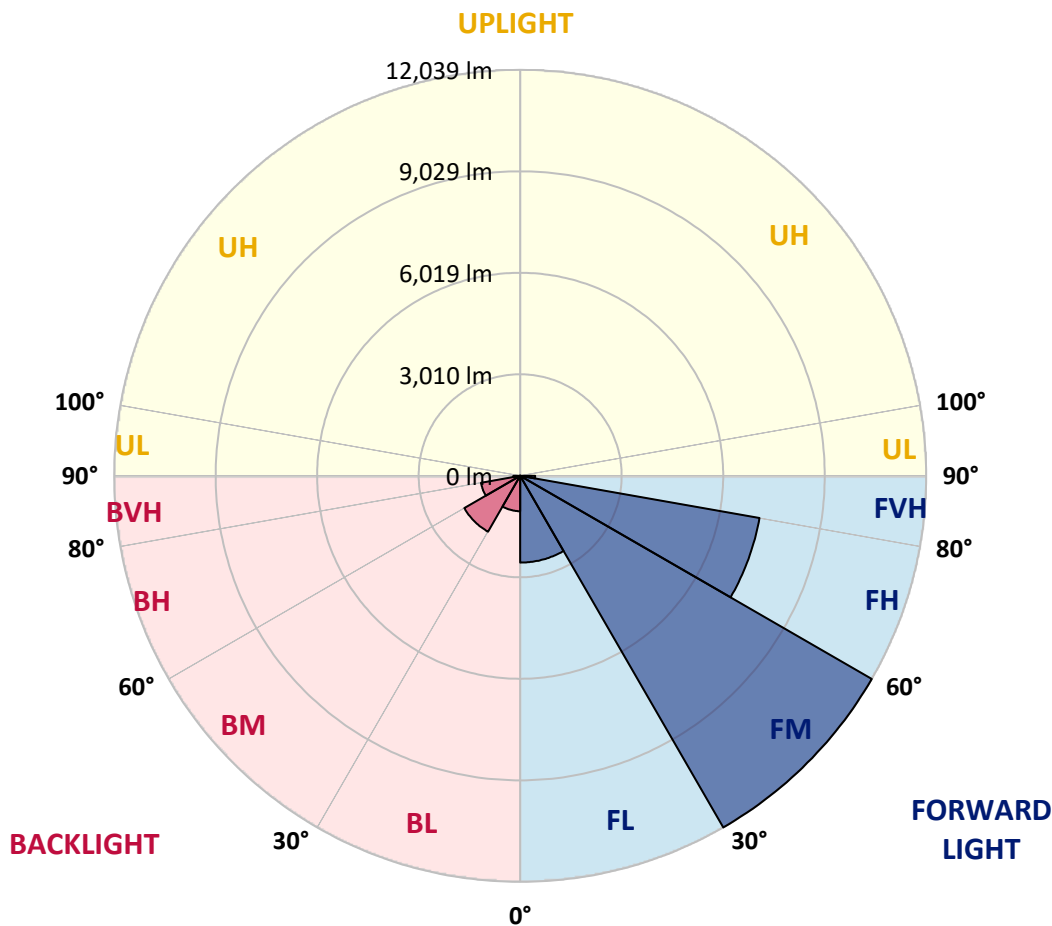


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2573.9	9.7			
FM (30°-60°)	12038.9	45.2			
FH (60°-80°)	7204.7	27.1			G3/7500
FVH (80°-90°)	446.5	1.7			G3/500
BL (0°-30°)	1049.2	3.9	B3/2500		
BM (30°-60°)	1912.6	7.2	B2/2500		
BH (60°-80°)	1178.3	4.4	B3/2500		G3/2500
BVH (80°-90°)	203.9	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°	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4
2.5°	4240.7	4209.2	4205.7	4156.7	4111.2	3988.7	3901.3	3747.3	3593.4	3589.9	3435.9
5°	4901.9	4870.5	4853.0	4793.5	4716.5	4555.6	4398.1	4160.2	3897.8	3880.3	3589.9
7.5°	5349.8	5321.8	5286.8	5262.3	5188.9	5045.4	4853.0	4569.6	4209.2	4174.2	3768.3
10°	5650.7	5633.2	5626.2	5608.7	5563.2	5447.8	5262.3	4961.4	4520.6	4482.1	3957.2
12.5°	5780.2	5773.2	5804.7	5853.6	5871.1	5825.7	5647.2	5363.8	4863.5	4821.5	4184.7
15°	5629.7	5636.7	5717.2	5885.1	6063.6	6161.5	6056.6	5780.2	5251.8	5192.4	4450.6
17.5°	5559.7	5570.2	5626.2	5787.2	6039.1	6343.5	6392.5	6175.5	5626.2	5542.2	4730.5
20°	5682.2	5696.2	5738.2	5864.1	6039.1	6364.5	6619.9	6553.4	5993.6	5906.1	4999.9
22.5°	5993.6	6011.1	6007.6	6088.1	6207.0	6431.0	6745.9	6910.3	6378.5	6280.5	5279.8
25°	6658.4	6644.4	6525.4	6486.9	6518.4	6661.9	6913.8	7253.2	6780.8	6682.9	5573.7
27.5°	7561.1	7543.6	7326.7	7130.7	6955.8	7018.8	7151.7	7529.6	7190.2	7078.3	5853.6
30°	8526.8	8505.8	8253.9	7935.5	7547.1	7456.1	7438.6	7771.0	7603.1	7484.1	6151.0
32.5°	9468.0	9450.5	9181.1	8810.2	8274.9	8002.0	7834.0	8040.4	8071.9	7956.5	6476.4
35°	10325.2	10325.2	10094.3	9653.4	9048.1	8635.3	8358.8	8372.8	8610.8	8477.8	6847.3
37.5°	11088.0	11084.5	10832.6	10398.7	9817.9	9345.5	9002.6	8775.2	9125.1	9009.6	7235.7
40°	11693.3	11668.8	11483.4	11105.5	10521.2	10052.3	9705.9	9247.6	9698.9	9594.0	7648.6
42.5°	12134.1	12120.2	11994.2	11665.3	11109.0	10668.1	10430.2	9842.4	10349.7	10244.7	8131.4
45°	12305.6	12333.6	12333.6	12022.2	11581.3	11179.0	11074.0	10496.7	11053.0	10948.0	8649.3
47.5°	12029.2	12102.7	12253.1	12274.1	11885.7	11612.8	11647.8	11154.5	11777.3	11721.3	9216.1
50°	11165.0	11301.4	11630.3	12225.1	12008.2	11945.2	12137.6	11826.2	12554.0	12536.5	9905.4
52.5°	8936.2	9268.6	10293.7	11360.9	11924.2	12099.2	12624.0	12582.0	13554.7	13582.7	10804.6
55°	6854.3	6980.3	8166.4	9982.3	11409.9	12050.2	12949.4	13320.3	14639.4	14674.3	11630.3
57.5°	5542.2	5626.2	6273.5	8166.4	10237.8	11784.3	13204.8	13750.6	15472.1	15563.1	12365.1
60°	4391.1	4513.6	4947.4	6249.0	8596.8	11144.0	13383.3	14230.0	16367.8	16504.3	13243.3
62.5°	3264.5	3323.9	3733.3	4629.0	6805.3	9992.8	13288.8	14751.3	17466.5	17630.9	14300.0
65°	2323.3	2375.7	2666.2	3292.5	5031.4	8435.8	12739.5	15139.7	18845.0	19013.0	15363.6
67.5°	1738.9	1759.9	1924.4	2302.3	3390.4	6553.4	11626.8	15073.2	19852.7	20003.2	15790.5
70°	1375.1	1382.1	1462.5	1665.5	2204.3	4562.6	9677.9	14097.0	19926.2	20059.1	15251.7
72.5°	1140.6	1137.1	1182.6	1280.6	1536.0	2886.6	7169.2	12284.6	18981.5	19072.4	13747.1
75°	941.2	948.2	979.7	1035.7	1172.1	1903.4	4646.5	9800.4	16745.7	16647.7	11535.8
77.5°	790.7	787.3	801.2	850.2	948.2	1368.1	2722.1	7081.8	12410.6	12361.6	7571.6
80°	636.8	643.8	664.8	706.8	797.7	1042.7	1609.5	4419.1	6658.4	6479.9	3617.9
82.5°	426.9	493.3	535.3	584.3	689.3	769.8	1021.7	2246.3	2977.6	2932.1	1641.0
85°	202.9	269.4	398.9	454.9	559.8	482.8	692.8	1070.7	1490.5	1473.0	591.3
87.5°	42.0	42.0	213.4	255.4	346.4	206.4	384.9	465.4	720.8	675.3	241.4
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°	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4	3327.4
2.5°	3344.9	3250.5	3061.5	2911.1	2757.1	2669.7	2561.2	2508.7	2498.2	2470.2	2491.2
5°	3404.4	3219.0	2862.1	2627.7	2470.2	2393.2	2354.8	2340.8	2337.3	2330.3	2330.3
7.5°	3484.9	3201.5	2736.1	2498.2	2396.7	2372.2	2382.7	2403.7	2407.2	2414.2	2410.7
10°	3582.9	3205.0	2666.2	2466.7	2417.7	2421.2	2456.2	2484.2	2498.2	2508.7	2505.2
12.5°	3719.3	3247.0	2655.7	2487.7	2466.7	2480.7	2515.7	2543.7	2557.7	2561.2	2561.2
15°	3897.8	3334.4	2680.1	2533.2	2515.7	2526.2	2547.2	2557.7	2561.2	2557.7	2557.7
17.5°	4093.7	3439.4	2715.1	2561.2	2533.2	2522.7	2515.7	2505.2	2484.2	2470.2	2470.2
20°	4282.6	3533.9	2732.6	2557.7	2508.7	2466.7	2424.7	2372.2	2337.3	2309.3	2309.3
22.5°	4471.6	3621.4	2732.6	2519.2	2442.2	2361.8	2274.3	2190.3	2137.8	2102.8	2102.8
25°	4671.0	3705.3	2711.6	2452.7	2337.3	2221.8	2102.8	1997.9	1945.4	1910.4	1903.4
27.5°	4839.0	3754.3	2655.7	2358.3	2207.8	2060.8	1924.4	1815.9	1777.4	1745.9	1745.9
30°	5017.4	3785.8	2550.7	2235.8	2060.8	1892.9	1752.9	1665.5	1623.5	1578.0	1574.5
32.5°	5216.8	3806.8	2431.7	2106.3	1910.4	1732.0	1613.0	1543.0	1452.0	1403.1	1396.1
35°	5447.8	3834.8	2305.8	1959.4	1759.9	1599.0	1529.0	1413.6	1326.1	1284.1	1280.6
37.5°	5692.7	3855.8	2169.3	1829.9	1623.5	1511.5	1441.5	1305.1	1228.1	1165.1	1158.1
40°	5951.6	3855.8	2029.4	1704.0	1515.0	1473.0	1340.1	1217.6	1088.2	1056.7	1049.7
42.5°	6238.5	3848.8	1889.4	1581.5	1413.6	1385.6	1280.6	1151.1	1084.7	1056.7	1049.7
45°	6542.9	3824.3	1756.4	1441.5	1308.6	1252.6	1172.1	1137.1	1109.1	1109.1	1109.1
47.5°	6889.3	3803.3	1606.0	1315.6	1231.6	1168.6	1109.1	1088.2	1084.7	1095.2	1105.6
50°	7333.7	3796.3	1480.0	1224.6	1172.1	1098.7	1091.7	1074.2	1077.7	1077.7	1077.7
52.5°	7872.5	3733.3	1361.1	1158.1	1112.6	1025.2	1046.2	1063.7	1070.7	1067.2	1063.7
55°	8267.9	3621.4	1259.6	1112.6	1070.7	997.2	1025.2	1053.2	1060.2	1049.7	1049.7
57.5°	8624.8	3463.9	1179.1	1077.7	1042.7	979.7	1011.2	1039.2	1032.2	1028.7	1025.2
60°	9034.1	3313.4	1116.1	1060.2	1014.7	972.7	1000.7	1018.2	1007.7	1000.7	997.2
62.5°	9478.5	3166.5	1070.7	1060.2	993.7	969.2	990.2	997.2	976.2	969.2	969.2
65°	9684.9	2935.6	1021.7	1060.2	983.2	962.2	969.2	962.2	941.2	941.2	937.7
67.5°	9345.5	2554.2	958.7	1046.2	997.2	951.7	937.7	927.2	902.7	902.7	895.7
70°	8407.8	2099.3	867.7	1000.7	1000.7	948.2	895.7	871.2	843.2	853.7	839.7
72.5°	7183.2	1665.5	755.8	923.7	979.7	944.7	850.2	811.7	787.3	797.7	776.8
75°	5818.7	1291.1	622.8	801.2	927.2	927.2	804.7	752.3	724.3	724.3	699.8
77.5°	3708.8	955.2	507.3	664.8	832.7	902.7	766.3	685.8	643.8	633.3	615.8
80°	1836.9	671.8	416.4	528.3	710.3	846.7	738.3	608.8	549.3	528.3	496.8
82.5°	976.2	465.4	332.4	412.9	566.8	762.8	703.3	524.8	451.4	419.9	384.9
85°	437.4	286.9	265.9	314.9	430.4	626.3	633.3	430.4	346.4	412.9	304.4
87.5°	160.9	129.5	129.5	160.9	248.4	262.4	447.9	276.4	220.4	150.5	119.0
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)