

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: P236826

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17314.3 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

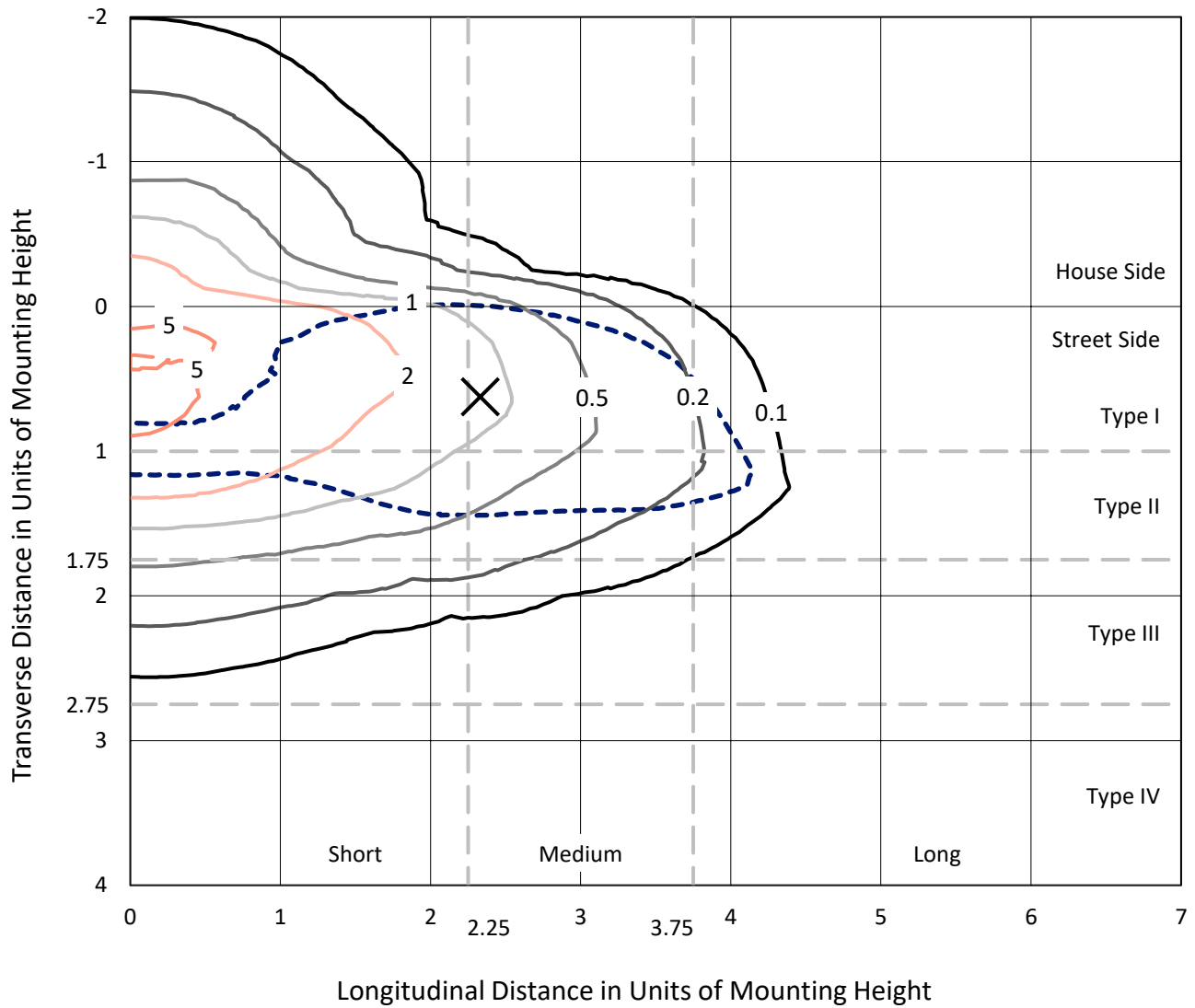
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

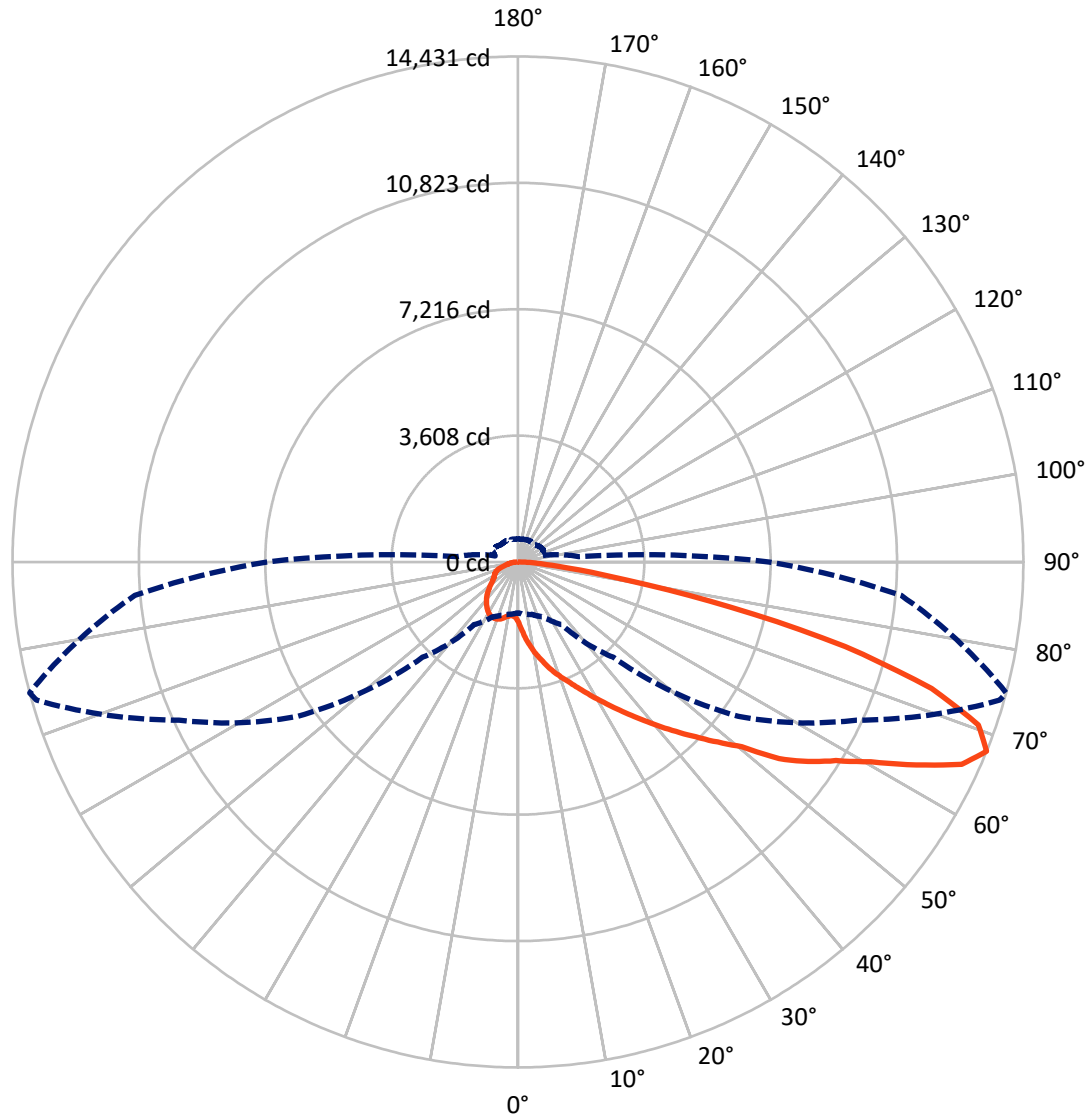
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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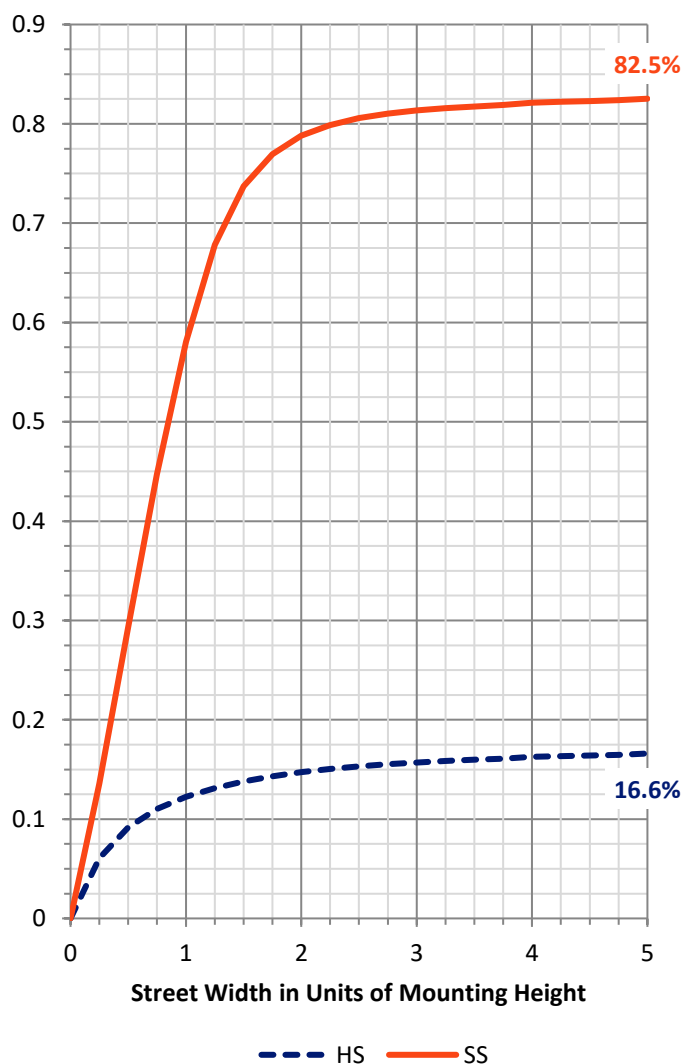
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2956.6	0.0	2956.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	14357.7	0.0	14357.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	17314.3	0.0	17314.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	1.2
10°-20°	728.4	4.2
20°-30°	1328.5	7.7
30°-40°	2180.7	12.6
40°-50°	3153.6	18.2
50°-60°	3716.5	21.5
60°-70°	3611.5	20.9
70°-80°	2007.5	11.6
80°-90°	386.0	2.2
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°	17314.3	100.0
0°-180°	17314.3	100.0

Coefficient of Utilization

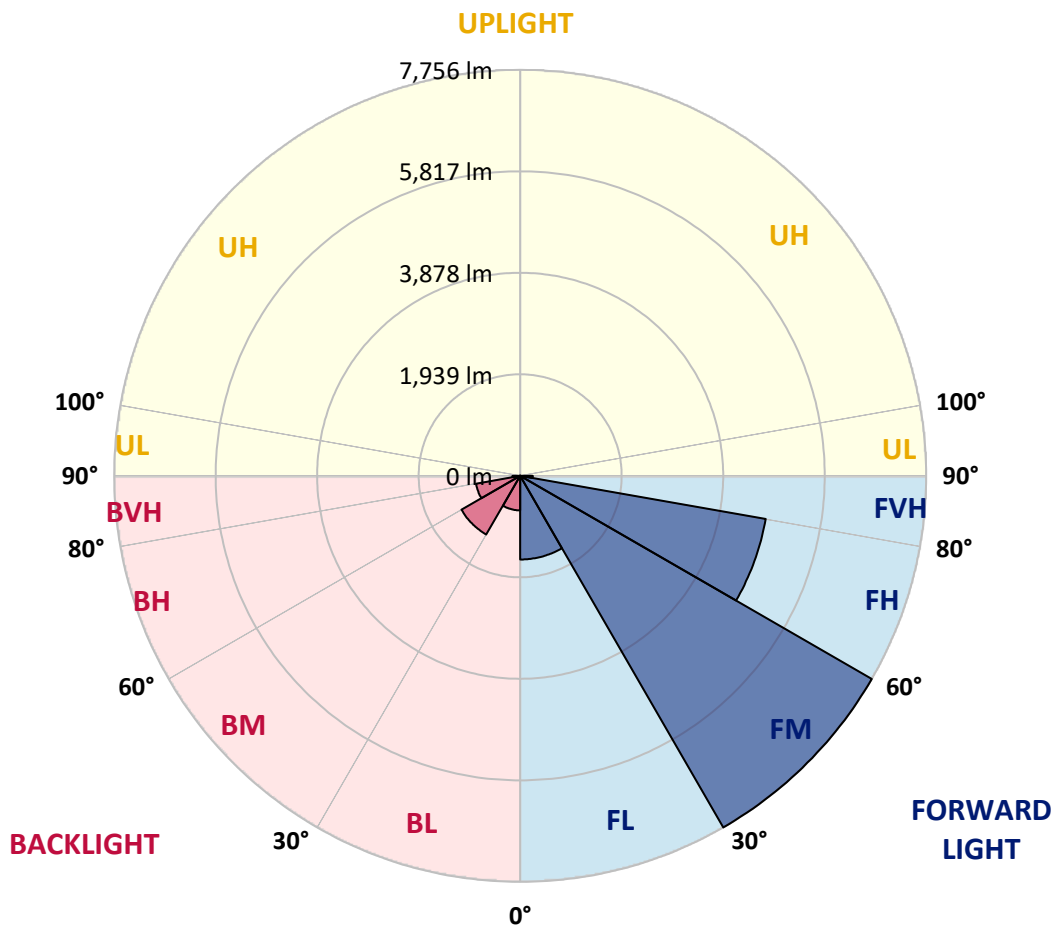


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1598.6	9.2			
FM (30°-60°)	7755.9	44.8			
FH (60°-80°)	4763.0	27.5			G2/5000
FVH (80°-90°)	240.2	1.4			G3/500
BL (0°-30°)	659.9	3.8	B2/1000		
BM (30°-60°)	1294.9	7.5	B2/2500		
BH (60°-80°)	856.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	145.8	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7
2.5°	2432.3	2439.5	2425.1	2392.6	2345.5	2258.6	2182.6	2048.7	1929.2	1914.8	1788.0
5°	2859.5	2866.8	2848.6	2808.8	2758.1	2664.0	2559.1	2385.3	2193.5	2157.3	1889.4
7.5°	3152.6	3156.3	3134.5	3094.8	3054.9	2960.8	2855.8	2660.4	2425.1	2396.2	2019.7
10°	3402.5	3409.7	3380.7	3355.4	3311.8	3217.8	3109.2	2902.9	2660.4	2620.6	2153.6
12.5°	3634.1	3641.3	3623.1	3601.5	3587.0	3500.1	3380.7	3134.5	2873.9	2830.5	2312.9
15°	3789.6	3797.0	3800.6	3829.5	3847.6	3786.1	3666.6	3398.7	3105.5	3065.9	2501.2
17.5°	3746.3	3764.3	3818.6	3923.6	4035.8	4039.5	3941.7	3659.4	3333.6	3290.3	2692.9
20°	3619.5	3634.1	3699.2	3858.5	4079.3	4205.9	4198.8	3923.6	3547.2	3500.1	2870.3
22.5°	3724.5	3742.6	3742.6	3840.4	4057.6	4292.8	4387.0	4184.2	3760.7	3717.3	3047.7
25°	4173.3	4184.2	4108.2	4068.4	4148.0	4365.2	4542.6	4466.5	4021.4	3970.7	3239.5
27.5°	4799.5	4781.5	4687.3	4528.1	4441.2	4499.2	4680.1	4734.4	4321.8	4260.2	3438.6
30°	5422.1	5411.3	5302.7	5089.1	4893.6	4770.6	4832.1	4973.3	4647.6	4575.1	3630.4
32.5°	6004.9	5986.8	5867.3	5617.6	5396.8	5168.7	5049.3	5190.5	4995.0	4911.8	3844.0
35°	6540.6	6493.5	6374.0	6113.5	5885.5	5668.3	5375.1	5396.8	5371.4	5284.6	4079.3
37.5°	6974.9	6938.7	6808.4	6565.9	6323.4	6117.1	5809.5	5632.1	5776.9	5693.6	4350.7
40°	7358.6	7318.7	7184.9	6942.4	6718.0	6522.4	6280.0	5918.0	6232.9	6138.8	4654.8
42.5°	7648.1	7619.2	7510.6	7271.7	7054.6	6877.3	6757.8	6280.0	6707.1	6616.6	4987.8
45°	7803.9	7774.9	7717.0	7525.1	7326.1	7188.5	7199.3	6710.7	7202.9	7127.0	5382.3
47.5°	7612.0	7633.7	7684.3	7648.1	7525.1	7459.9	7593.8	7155.9	7756.8	7684.3	5809.5
50°	7098.0	7119.7	7322.4	7572.1	7615.6	7695.2	7948.6	7669.9	8343.1	8285.2	6337.9
52.5°	5834.8	5954.2	6515.2	7112.4	7521.5	7850.9	8343.1	8433.6	9331.3	9331.3	7271.7
55°	4408.6	4513.6	5154.3	6196.7	7155.9	7865.3	8632.7	8951.2	10044.3	10058.9	7760.3
57.5°	3572.6	3637.7	3952.6	5020.4	6388.5	7684.3	8976.5	9396.4	10637.9	10703.0	8390.1
60°	2899.3	2935.5	3141.7	3883.8	5328.0	7195.7	9222.7	10033.5	11484.9	11575.4	9193.7
62.5°	2331.0	2367.2	2504.8	2950.0	4180.6	6280.0	9179.2	10695.8	12614.2	12762.6	10247.0
65°	1860.4	1900.2	1990.8	2265.8	3098.4	5143.4	8734.0	11036.1	13783.4	13928.2	10945.6
67.5°	1451.4	1487.7	1549.2	1730.1	2182.6	3847.6	7680.7	10677.8	14308.1	14431.3	10981.7
70°	1096.8	1114.9	1165.5	1281.3	1560.0	2555.5	6012.1	9476.0	13837.6	13949.9	10258.0
72.5°	850.6	847.0	875.9	933.8	1089.6	1759.1	3985.1	7706.0	12234.2	12350.0	8752.1
75°	695.0	691.4	709.4	727.5	789.1	1180.0	2352.7	5802.2	9874.2	9653.4	6565.9
77.5°	586.4	582.8	600.8	604.4	629.8	814.4	1339.2	3818.6	6587.7	6207.6	3699.2
80°	495.9	492.2	513.9	521.1	539.3	597.2	771.0	2066.7	3308.3	3134.5	1766.4
82.5°	372.8	387.4	427.1	445.2	467.0	441.6	477.8	912.1	1534.6	1465.9	767.3
85°	181.0	213.6	322.1	358.4	383.7	278.7	325.8	430.7	691.4	658.8	311.3
87.5°	61.5	54.3	191.9	228.1	249.7	126.6	181.0	238.8	285.9	260.6	97.7
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°	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7	1715.7
2.5°	1733.7	1679.6	1599.9	1538.4	1498.5	1465.9	1451.4	1447.8	1440.6	1437.0	1437.0
5°	1770.0	1672.2	1549.2	1484.1	1465.9	1451.4	1458.7	1462.3	1462.3	1462.3	1462.3
7.5°	1824.3	1686.8	1538.4	1494.8	1491.3	1491.3	1513.0	1523.8	1531.0	1531.0	1531.0
10°	1896.6	1712.1	1556.4	1520.3	1531.0	1538.4	1563.6	1578.1	1585.4	1588.9	1592.6
12.5°	1994.4	1766.4	1592.6	1563.6	1578.1	1581.7	1599.9	1607.1	1614.3	1617.9	1617.9
15°	2124.6	1845.9	1650.6	1614.3	1617.9	1614.3	1614.3	1607.1	1603.5	1603.5	1610.7
17.5°	2258.6	1922.0	1701.1	1650.6	1636.0	1607.1	1585.4	1567.4	1556.4	1549.2	1552.8
20°	2392.6	1990.8	1730.1	1657.8	1617.9	1570.9	1531.0	1505.7	1491.3	1476.7	1484.1
22.5°	2526.5	2055.9	1741.0	1636.0	1578.1	1509.4	1465.9	1426.2	1393.5	1371.9	1375.5
25°	2674.8	2128.3	1741.0	1610.7	1523.8	1451.4	1397.2	1332.0	1285.0	1266.9	1274.1
27.5°	2823.3	2189.9	1722.9	1563.6	1462.3	1389.9	1310.2	1234.3	1205.3	1194.4	1198.0
30°	2971.7	2236.9	1683.1	1505.7	1397.2	1317.5	1212.6	1161.9	1125.7	1096.8	1100.4
32.5°	3120.1	2269.5	1628.8	1433.4	1328.4	1227.1	1140.1	1082.2	1017.1	980.9	984.5
35°	3290.3	2294.8	1563.6	1361.0	1252.3	1147.4	1082.2	988.1	919.4	890.5	883.2
37.5°	3467.6	2312.9	1494.8	1281.3	1176.4	1089.6	1024.3	908.5	843.4	803.5	799.9
40°	3659.4	2320.1	1411.6	1198.0	1103.9	1053.3	948.4	861.5	749.3	724.0	724.0
42.5°	3887.5	2316.6	1328.4	1114.9	1024.3	970.0	894.1	854.2	756.5	731.2	716.6
45°	4148.0	2316.6	1237.9	1017.1	944.6	865.2	832.5	807.2	742.0	752.9	760.1
47.5°	4444.8	2309.3	1129.3	937.5	879.5	810.8	792.6	738.4	713.0	720.3	727.5
50°	4853.9	2320.1	1031.6	872.3	832.5	774.5	752.9	724.0	713.0	716.6	713.0
52.5°	5422.1	2283.9	937.5	832.5	796.3	720.3	720.3	716.6	720.3	716.6	716.6
55°	5733.4	2204.3	868.7	810.8	771.0	695.0	709.4	716.6	724.0	720.3	720.3
57.5°	6175.0	2150.0	814.4	796.3	756.5	687.7	702.2	716.6	720.3	716.6	716.6
60°	6696.2	2113.8	778.3	799.9	745.5	687.7	705.9	716.6	713.0	709.4	709.4
62.5°	7300.7	2099.3	752.9	810.8	734.8	691.4	705.9	716.6	702.2	698.6	698.6
65°	7528.7	1969.1	720.3	818.1	742.0	691.4	702.2	705.9	687.7	684.1	680.4
67.5°	7177.6	1744.7	673.2	803.5	763.7	691.4	691.4	687.7	666.1	662.3	655.1
70°	6392.2	1447.8	600.8	756.5	778.3	695.0	676.9	658.8	637.1	637.1	622.6
72.5°	5233.9	1140.1	506.8	673.2	767.3	705.9	647.9	622.6	597.2	597.2	582.8
75°	3771.6	850.6	405.4	561.0	720.3	702.2	611.8	579.2	550.2	546.6	528.5
77.5°	2150.0	597.2	329.4	438.0	640.7	684.1	579.2	528.5	495.9	485.0	474.1
80°	1103.9	401.7	267.8	343.8	532.1	633.3	553.8	470.6	434.3	416.3	398.1
82.5°	524.9	267.8	206.3	253.4	401.7	553.8	521.1	405.4	365.6	343.8	322.1
85°	235.2	159.3	137.5	162.9	285.9	430.7	459.7	333.0	285.9	358.4	264.2
87.5°	76.1	72.4	72.4	76.1	137.5	188.3	336.6	246.2	228.1	188.3	159.3
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)