

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: P400086

Luminaire Tested: **ARCH-L-PA3-230-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-230-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31632 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

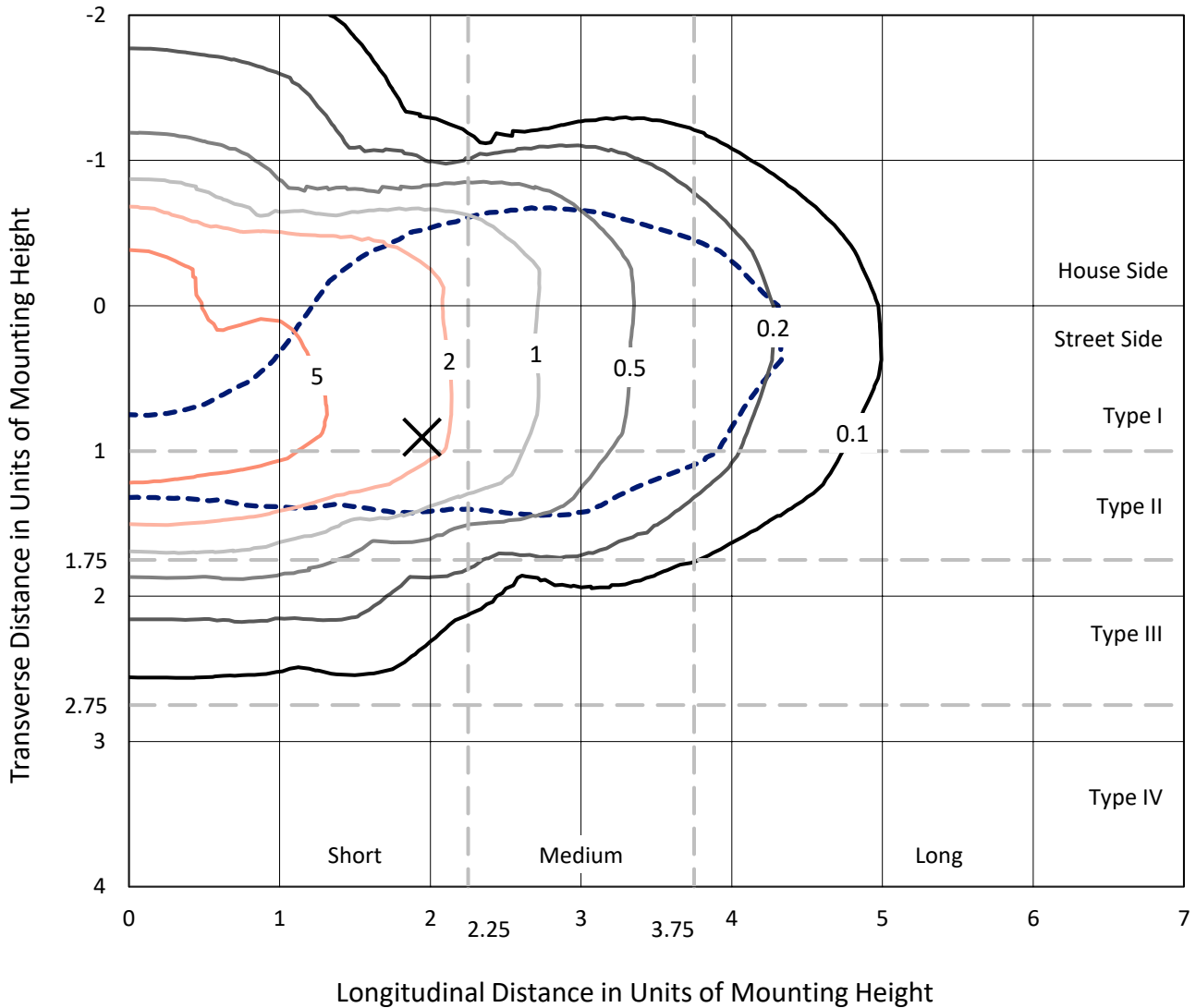
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

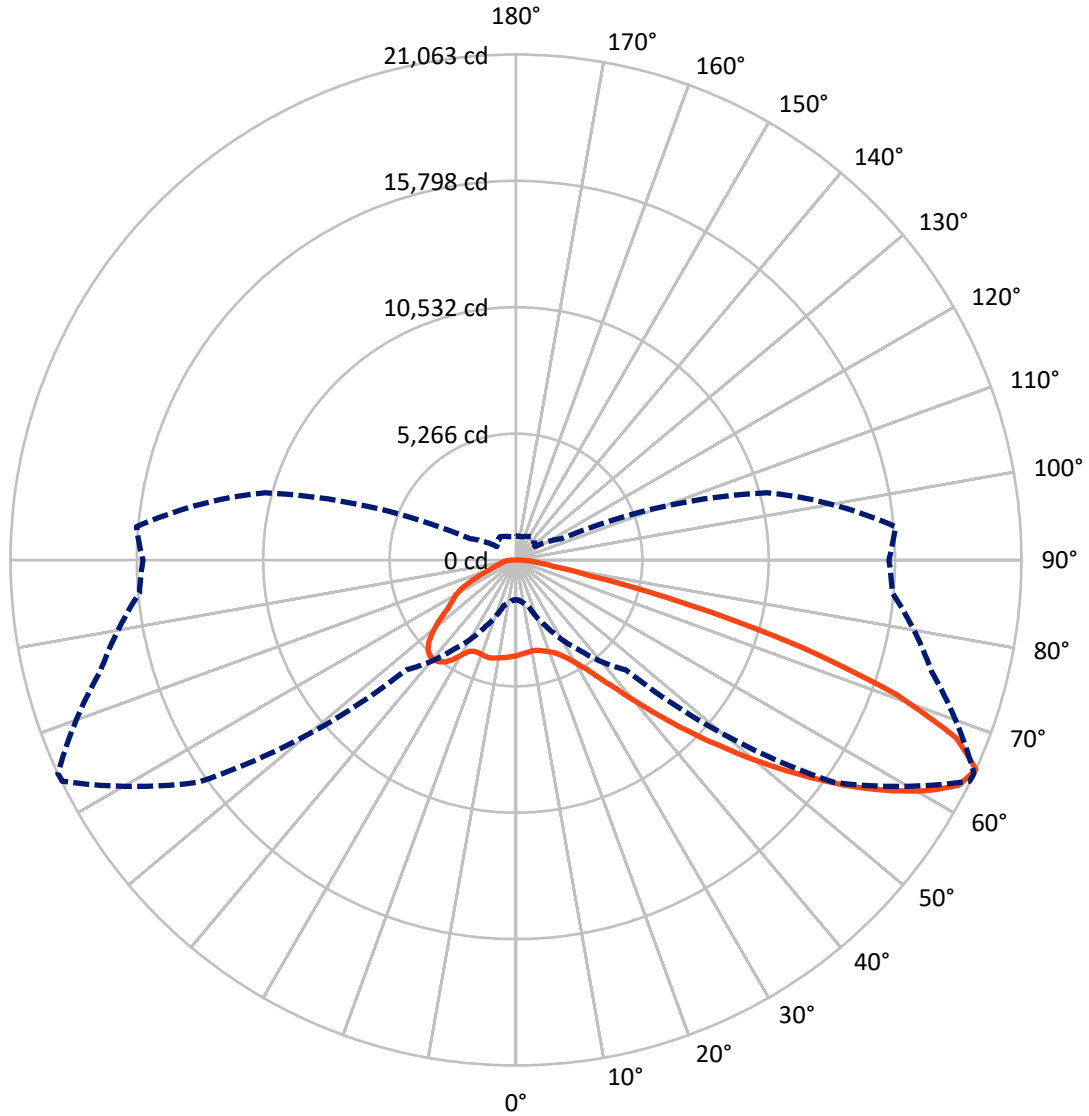
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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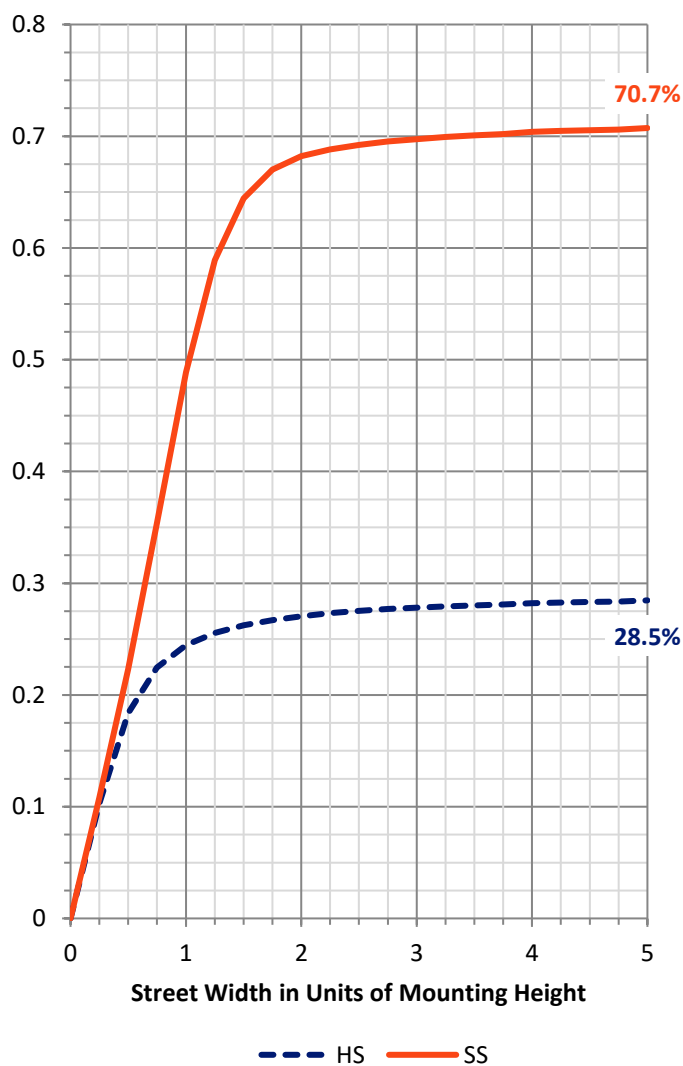
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9145.3	0.0	9145.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	22486.7	0.0	22486.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	31632.0	0.0	31632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	1.2
10°-20°	1136.9	3.6
20°-30°	2019.5	6.4
30°-40°	3416.5	10.8
40°-50°	5947.4	18.8
50°-60°	7686.0	24.3
60°-70°	6725.7	21.3
70°-80°	3658.3	11.6
80°-90°	661.0	2.1
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°	31632.0	100.0
0°-180°	31632.0	100.0

Coefficient of Utilization



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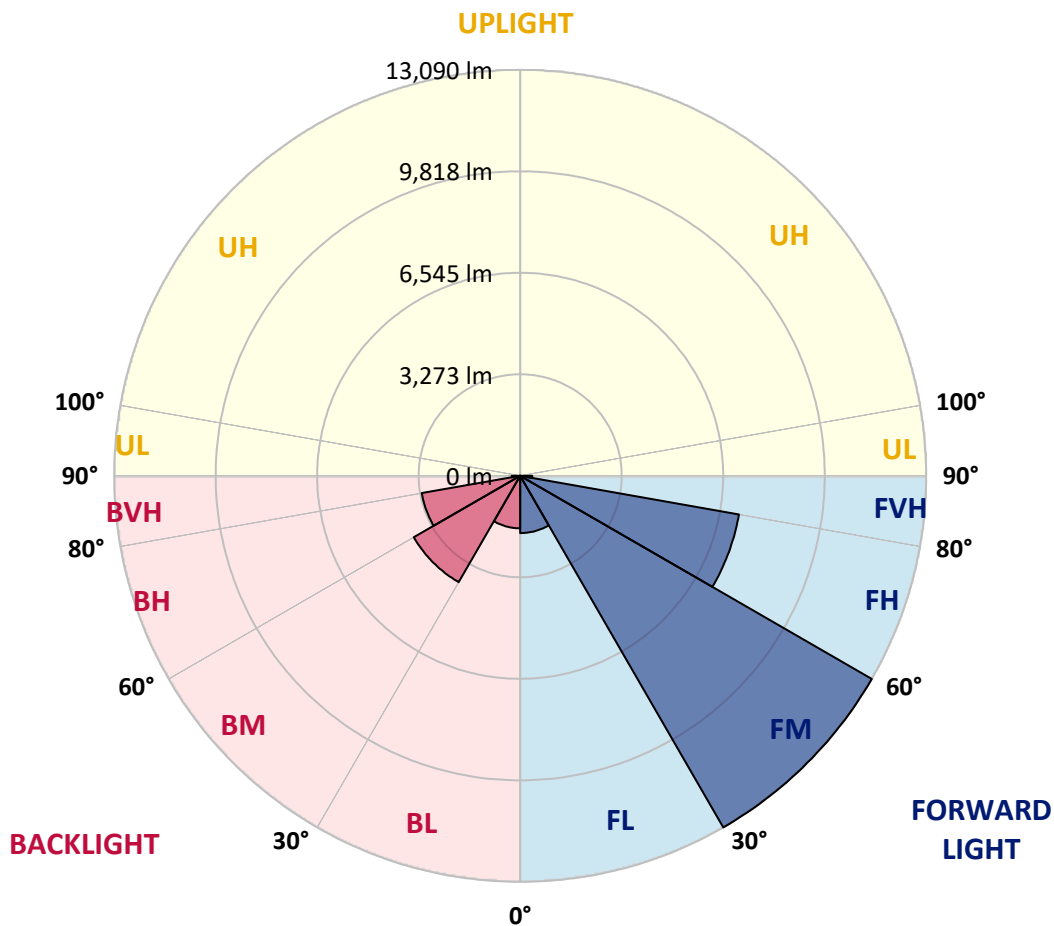
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.6	5.8			
FM (30°-60°)	13090.2	41.4			
FH (60°-80°)	7161.9	22.6			G3/7500
FVH (80°-90°)	389.0	1.2			G3/500
BL (0°-30°)	1691.6	5.3	B3/2500		
BM (30°-60°)	3959.7	12.5	B3/5000		
BH (60°-80°)	3222.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	272.0	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0
2.5°	3926.2	3922.1	3913.7	3922.1	3926.2	3934.6	3930.4	3938.7	3934.6	3947.0	3967.9
5°	3826.3	3818.0	3813.8	3834.6	3847.1	3867.9	3876.3	3905.4	3901.2	3922.1	3955.4
7.5°	3713.9	3713.9	3709.7	3734.7	3751.4	3788.8	3818.0	3867.9	3872.1	3909.6	3947.0
10°	3626.5	3630.6	3626.5	3647.3	3672.3	3718.1	3768.0	3838.8	3843.0	3897.1	3934.6
12.5°	3593.1	3593.1	3593.1	3622.3	3655.6	3718.1	3776.3	3851.3	3859.6	3917.9	3951.2
15°	3638.9	3643.1	3634.8	3663.9	3701.4	3776.3	3830.5	3909.6	3917.9	3972.0	3992.8
17.5°	3801.3	3818.0	3797.2	3813.8	3805.5	3863.8	3913.7	3992.8	3997.0	4042.8	4051.1
20°	4121.9	4138.6	4105.3	4084.4	4009.5	4005.3	4026.2	4088.6	4088.6	4117.8	4096.9
22.5°	4617.4	4634.0	4575.7	4496.6	4317.6	4230.2	4184.4	4213.5	4209.3	4221.8	4167.7
25°	5275.2	5271.1	5200.3	5054.5	4767.3	4554.9	4442.5	4396.7	4396.7	4371.7	4305.1
27.5°	6091.3	6028.8	5903.9	5729.0	5329.3	5033.7	4792.2	4675.7	4654.8	4579.9	4455.0
30°	6961.5	6915.7	6736.6	6482.6	6020.5	5641.6	5241.9	5008.8	4996.3	4833.9	4646.5
32.5°	7985.7	7910.7	7710.9	7407.0	6853.2	6320.3	5820.6	5466.7	5445.9	5187.8	4929.6
35°	9301.4	9238.9	8851.7	8547.8	7835.8	7136.3	6545.1	6074.6	6058.0	5741.5	5412.6
37.5°	10879.4	10717.0	10342.3	9771.9	9022.4	8193.9	7444.4	6853.2	6832.4	6482.6	6066.3
40°	12286.6	12140.9	11807.8	11283.2	10479.7	9559.5	8543.6	7827.5	7806.7	7382.0	6857.4
42.5°	13327.5	13227.6	13011.1	12707.2	12132.6	11574.7	9946.7	9005.8	8968.3	8418.7	7765.0
45°	13931.2	13852.1	13727.2	13802.2	13793.8	13689.8	11620.5	10408.9	10288.1	9576.2	8776.8
47.5°	13785.5	13714.7	13764.7	14347.6	15151.2	15754.9	13569.0	11845.3	11682.9	10754.4	9855.1
50°	12732.1	12761.3	13023.6	14139.4	15942.2	17282.9	15729.9	13481.6	13265.1	11941.1	10879.4
52.5°	10812.7	10883.5	11520.5	13081.9	15854.8	18273.8	17682.6	15172.0	14884.7	13098.5	11812.0
55°	8589.4	8768.4	9592.8	11233.3	14714.0	18344.6	19156.5	16870.7	16554.3	14185.2	12623.9
57.5°	6353.6	6620.0	7573.5	9080.7	12528.1	17224.6	19893.4	18494.5	18111.4	15263.6	13481.6
60°	4030.3	4192.7	5291.9	7069.7	9588.7	14485.0	19797.7	19876.8	19543.7	16337.8	14376.7
62.5°	2573.1	2652.2	3205.9	5042.1	6703.3	10725.3	18752.6	20921.8	20697.0	17316.2	15226.1
65°	1652.9	1686.2	1969.4	3101.8	4563.3	6474.3	16150.4	21034.3	21063.4	17928.2	15750.7
67.5°	1344.8	1361.5	1465.6	1915.2	3226.8	3576.5	11249.9	19435.5	19789.4	17770.0	15571.7
70°	1224.1	1244.9	1353.2	1528.0	2498.1	2469.0	5445.9	16262.8	16841.6	16858.2	14776.4
72.5°	1032.6	1061.7	1207.4	1444.8	1931.9	1948.5	2306.6	11583.0	12436.5	15067.9	13581.5
75°	861.9	878.5	1003.4	1274.0	1636.3	1557.2	1619.6	6141.2	7373.6	12082.6	12311.6
77.5°	699.5	716.1	807.7	1015.9	1453.1	1211.6	1274.0	2543.9	3143.5	8202.2	10063.3
80°	499.6	516.3	620.4	791.1	1099.2	1090.9	945.1	1403.1	1523.9	4434.2	6536.8
82.5°	358.1	370.6	470.5	566.2	761.9	1095.0	712.0	953.5	999.3	1965.2	2635.5
85°	241.5	241.5	324.8	374.7	491.3	691.1	574.6	645.4	674.5	932.6	712.0
87.5°	104.1	104.1	174.9	191.5	258.1	320.6	428.8	324.8	333.1	503.8	291.4
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°	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0	3997.0
2.5°	3980.4	3984.5	3992.8	4017.8	4034.5	4059.5	4072.0	4088.6	4088.6	4080.3	4084.4
5°	3972.0	3984.5	4013.7	4059.5	4088.6	4134.4	4167.7	4192.7	4201.0	4192.7	4196.9
7.5°	3967.9	3988.7	4038.6	4105.3	4146.9	4205.2	4251.0	4280.1	4300.9	4292.6	4296.8
10°	3955.4	3988.7	4051.1	4134.4	4196.9	4255.1	4296.8	4309.3	4321.8	4313.4	4309.3
12.5°	3972.0	4009.5	4076.1	4176.0	4246.8	4292.6	4305.1	4284.3	4255.1	4238.5	4234.3
15°	4005.3	4042.8	4109.4	4213.5	4276.0	4292.6	4263.5	4196.9	4130.2	4092.8	4088.6
17.5°	4051.1	4076.1	4130.2	4221.8	4271.8	4251.0	4192.7	4113.6	4063.6	4034.5	4038.6
20°	4080.3	4080.3	4121.9	4192.7	4234.3	4217.7	4146.9	4059.5	3980.4	3942.9	3930.4
22.5°	4121.9	4101.1	4105.3	4167.7	4226.0	4201.0	4051.1	3897.1	3784.7	3743.0	3738.9
25°	4234.3	4176.0	4138.6	4176.0	4313.4	4109.4	3809.6	3630.6	3526.5	3489.1	3493.2
27.5°	4371.7	4292.6	4213.5	4276.0	4384.2	3901.2	3501.5	3297.5	3235.1	3205.9	3218.4
30°	4509.1	4405.0	4300.9	4525.8	4334.3	3576.5	3106.0	2906.2	2852.0	2831.2	2847.9
32.5°	4763.1	4592.4	4467.5	4858.9	4180.2	3205.9	2677.2	2494.0	2444.0	2419.0	2410.7
35°	5187.8	4971.3	4846.4	5150.3	3963.7	2793.7	2285.8	2156.7	2102.6	2048.5	2040.1
37.5°	5799.8	5537.5	5425.1	5316.9	3659.8	2385.7	1986.0	1898.6	1819.5	1736.2	1732.0
40°	6532.6	6191.2	6107.9	5391.8	3239.2	2002.7	1777.8	1694.6	1594.6	1515.5	1519.7
42.5°	7377.8	6940.6	6761.6	5371.0	2718.8	1798.7	1627.9	1536.3	1448.9	1378.1	1374.0
45°	8281.3	7785.8	7373.6	5225.3	2202.5	1657.1	1536.3	1428.1	1340.7	1261.6	1253.2
47.5°	9280.6	8726.8	7939.9	4942.1	1819.5	1557.2	1482.2	1328.2	1249.1	1199.1	1199.1
50°	10288.1	9626.1	8460.3	4513.3	1594.6	1482.2	1403.1	1274.0	1211.6	1170.0	1170.0
52.5°	11150.0	10562.9	8889.2	4001.2	1453.1	1419.8	1349.0	1249.1	1182.4	1145.0	1140.8
55°	11986.9	11433.1	9272.2	3493.2	1336.5	1336.5	1336.5	1228.2	1153.3	1120.0	1115.8
57.5°	12819.6	12349.1	9671.9	3160.1	1232.4	1265.7	1311.5	1203.3	1128.3	1099.2	1095.0
60°	13760.5	13448.3	10134.1	2927.0	1140.8	1190.8	1278.2	1174.1	1086.7	1061.7	1057.5
62.5°	14759.8	14759.8	10554.6	2598.1	1057.5	1128.3	1228.2	1136.6	1049.2	1028.4	1024.2
65°	15542.5	15879.8	10825.2	2106.8	974.3	1065.9	1170.0	1086.7	999.3	995.1	986.8
67.5°	15634.1	16162.9	10654.5	1590.5	899.3	999.3	1111.7	1032.6	949.3	949.3	936.8
70°	14976.3	15513.4	10121.6	1190.8	845.2	932.6	1036.7	965.9	886.8	895.2	874.3
72.5°	13877.1	14010.3	8797.6	941.0	782.7	861.9	945.1	891.0	820.2	820.2	791.1
75°	12428.2	11687.1	6391.0	786.9	707.8	778.6	853.5	807.7	745.3	724.5	707.8
77.5°	9892.6	8468.7	3713.9	678.7	645.4	699.5	749.4	716.1	662.0	616.2	616.2
80°	6028.8	4963.0	1640.4	587.1	570.4	612.0	645.4	607.9	562.1	516.3	503.8
82.5°	2294.1	1915.2	795.2	503.8	499.6	524.6	549.6	512.1	478.8	458.0	395.5
85°	628.7	578.7	545.4	420.5	412.2	408.0	437.2	420.5	374.7	308.1	274.8
87.5°	237.3	270.6	295.6	258.1	274.8	254.0	291.4	266.5	237.3	154.1	137.4
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)