

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: P400158

Luminaire Tested: **ARCH-L-PA3-240-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400158
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-PA3-240-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32702 lumens
Efficiency: N/A
Efficacy: 135.1 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

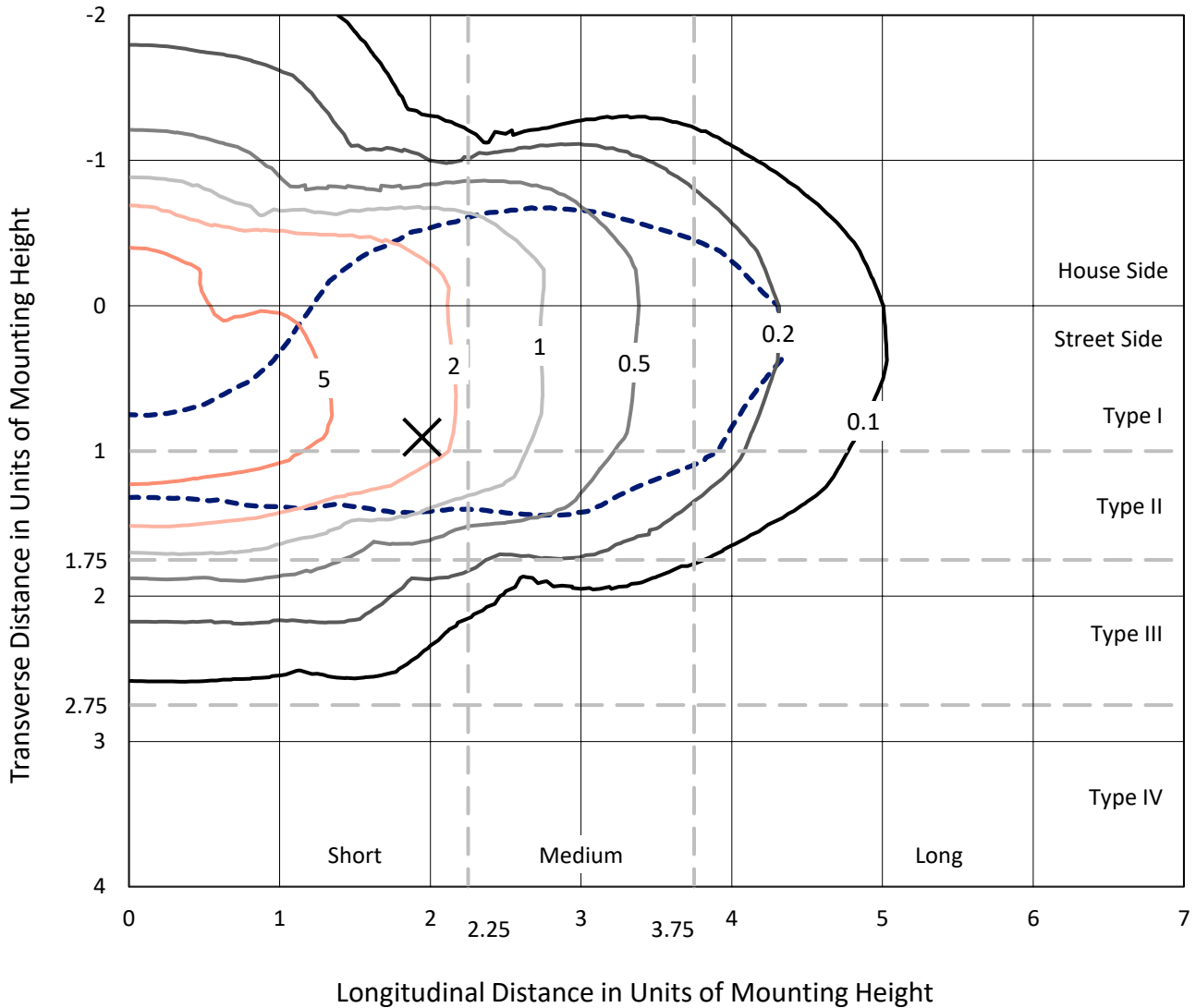
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

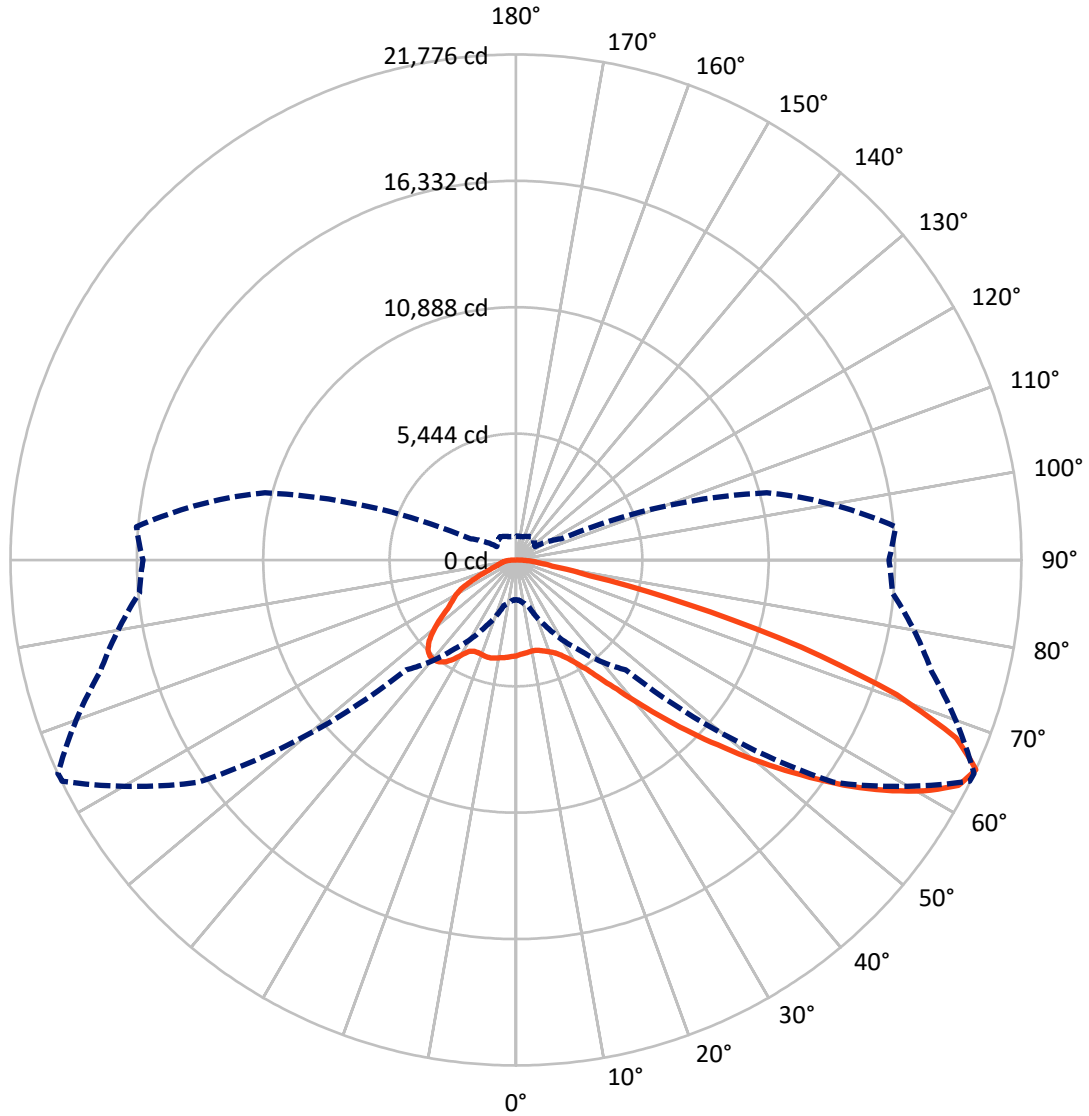
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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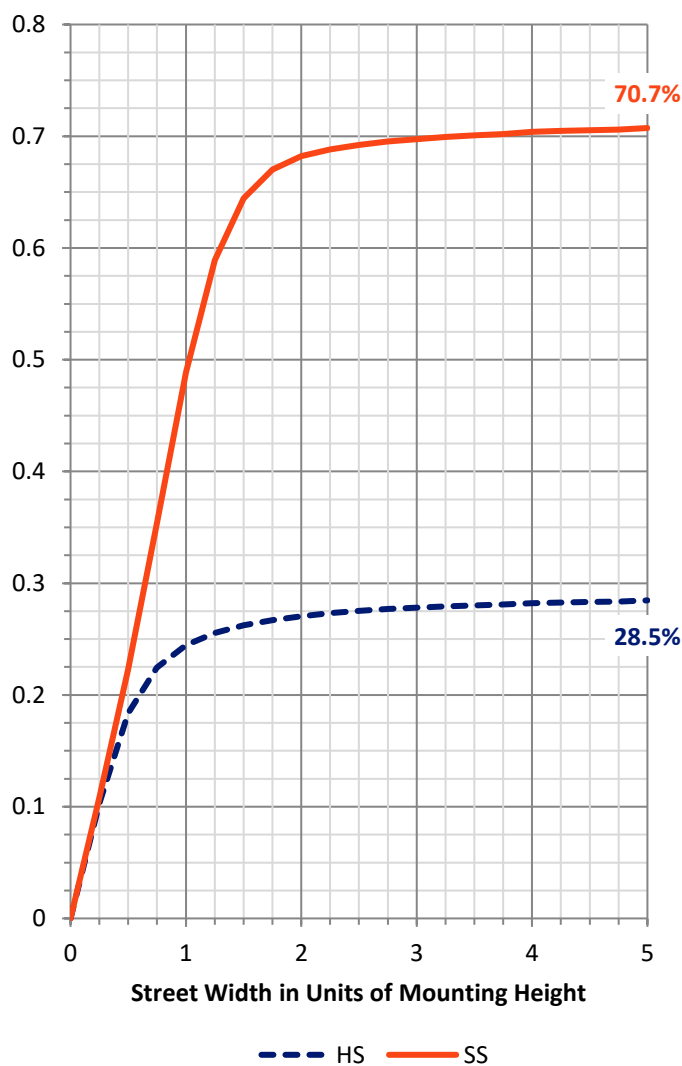
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9454.6	0.0	9454.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	23247.4	0.0	23247.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	32702.0	0.0	32702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.7	1.2
10°-20°	1175.4	3.6
20°-30°	2087.8	6.4
30°-40°	3532.0	10.8
40°-50°	6148.6	18.8
50°-60°	7946.0	24.3
60°-70°	6953.2	21.3
70°-80°	3782.0	11.6
80°-90°	683.3	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°	32702.0	100.0
0°-180°	32702.0	100.0

Coefficient of Utilization



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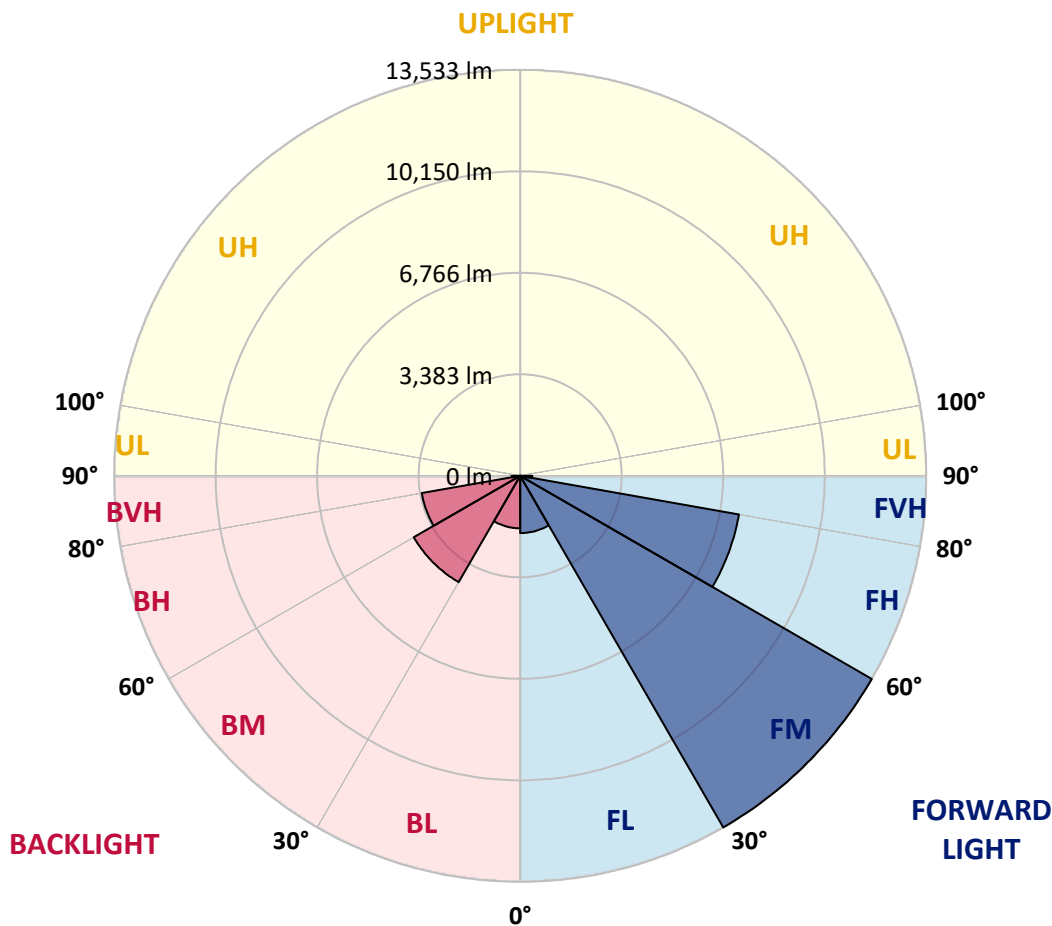
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.1	5.8			
FM (30°-60°)	13533.0	41.4			
FH (60°-80°)	7404.2	22.6			G3/7500
FVH (80°-90°)	402.1	1.2			G3/500
BL (0°-30°)	1748.8	5.3	B3/2500		
BM (30°-60°)	4093.6	12.5	B3/5000		
BH (60°-80°)	3331.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	281.2	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°	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2
2.5°	4059.0	4054.7	4046.1	4054.7	4059.0	4067.6	4063.3	4072.0	4067.6	4080.6	4102.1
5°	3955.7	3947.1	3942.8	3964.3	3977.3	3998.8	4007.4	4037.5	4033.2	4054.7	4089.2
7.5°	3839.5	3839.5	3835.2	3861.0	3878.3	3917.0	3947.1	3998.8	4003.1	4041.8	4080.6
10°	3749.1	3753.4	3749.1	3770.6	3796.5	3843.8	3895.5	3968.6	3973.0	4028.9	4067.6
12.5°	3714.7	3714.7	3714.7	3744.8	3779.3	3843.8	3904.1	3981.6	3990.2	4050.4	4084.9
15°	3762.0	3766.3	3757.7	3787.9	3826.6	3904.1	3960.0	4041.8	4050.4	4106.4	4127.9
17.5°	3929.9	3947.1	3925.6	3942.8	3934.2	3994.5	4046.1	4127.9	4132.2	4179.6	4188.2
20°	4261.3	4278.6	4244.1	4222.6	4145.1	4140.8	4162.3	4226.9	4226.9	4257.0	4235.5
22.5°	4773.6	4790.8	4730.5	4648.7	4463.7	4373.3	4325.9	4356.0	4351.7	4364.6	4308.7
25°	5453.7	5449.4	5376.2	5225.5	4928.5	4709.0	4592.8	4545.4	4545.4	4519.6	4450.7
27.5°	6297.3	6232.8	6103.6	5922.8	5509.6	5204.0	4954.4	4833.8	4812.3	4734.8	4605.7
30°	7196.9	7149.6	6964.5	6701.9	6224.1	5832.4	5419.2	5178.2	5165.3	4997.4	4803.7
32.5°	8255.8	8178.3	7971.7	7657.5	7085.0	6534.1	6017.5	5651.7	5630.1	5363.3	5096.4
35°	9616.0	9551.4	9151.1	8836.9	8100.9	7377.7	6766.5	6280.1	6262.9	5935.8	5595.7
37.5°	11247.4	11079.5	10692.1	10102.4	9327.6	8471.0	7696.2	7085.0	7063.5	6701.9	6271.5
40°	12702.2	12551.6	12207.2	11664.9	10834.1	9882.9	8832.6	8092.2	8070.7	7631.7	7089.3
42.5°	13778.3	13675.0	13451.2	13137.0	12543.0	11966.2	10283.2	9310.4	9271.7	8703.5	8027.7
45°	14402.5	14320.7	14191.6	14269.0	14260.4	14152.8	12013.5	10761.0	10636.1	9900.1	9073.7
47.5°	14251.8	14178.7	14230.3	14832.9	15663.7	16287.8	14028.0	12246.0	12078.1	11118.2	10188.5
50°	13162.8	13192.9	13464.1	14617.7	16481.5	17867.5	16262.0	13937.6	13713.8	12345.0	11247.4
52.5°	11178.5	11251.7	11910.2	13524.4	16391.1	18892.0	18280.7	15685.2	15388.2	13541.6	12211.5
55°	8880.0	9065.0	9917.3	11613.2	15211.7	18965.1	19804.5	17441.4	17114.2	14665.1	13050.9
57.5°	6568.5	6844.0	7829.7	9387.9	12951.9	17807.3	20566.4	19120.1	18724.1	15779.9	13937.6
60°	4166.6	4334.5	5470.9	7308.9	9913.0	14975.0	20467.4	20549.1	20204.8	16890.4	14863.1
62.5°	2660.1	2741.9	3314.4	5212.6	6930.1	11088.1	19387.0	21629.6	21397.1	17902.0	15741.1
65°	1708.8	1743.3	2036.0	3206.8	4717.6	6693.3	16696.7	21745.8	21775.9	18534.7	16283.5
67.5°	1390.3	1407.5	1515.1	1980.0	3335.9	3697.5	11630.5	20092.9	20458.8	18371.1	16098.4
70°	1265.5	1287.0	1398.9	1579.7	2582.6	2552.5	5630.1	16812.9	17411.3	17428.5	15276.3
72.5°	1067.5	1097.6	1248.3	1493.6	1997.2	2014.5	2384.6	11974.8	12857.2	15577.6	14040.9
75°	891.0	908.2	1037.4	1317.1	1691.6	1609.8	1674.4	6349.0	7623.1	12491.3	12728.1
77.5°	723.1	740.4	835.1	1050.3	1502.2	1252.6	1317.1	2630.0	3249.8	8479.6	10403.7
80°	516.5	533.7	641.4	817.8	1136.4	1127.7	977.1	1450.6	1575.4	4584.2	6757.9
82.5°	370.2	383.1	486.4	585.4	787.7	1132.1	736.1	985.7	1033.1	2031.7	2724.7
85°	249.7	249.7	335.7	387.4	507.9	714.5	594.0	667.2	697.3	964.2	736.1
87.5°	107.6	107.6	180.8	198.0	266.9	331.4	443.4	335.7	344.4	520.8	301.3
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°	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2	4132.2
2.5°	4115.0	4119.3	4127.9	4153.7	4171.0	4196.8	4209.7	4226.9	4226.9	4218.3	4222.6
5°	4106.4	4119.3	4149.4	4196.8	4226.9	4274.3	4308.7	4334.5	4343.1	4334.5	4338.8
7.5°	4102.1	4123.6	4175.3	4244.1	4287.2	4347.4	4394.8	4424.9	4446.4	4437.8	4442.1
10°	4089.2	4123.6	4188.2	4274.3	4338.8	4399.1	4442.1	4455.0	4468.0	4459.3	4455.0
12.5°	4106.4	4145.1	4214.0	4317.3	4390.5	4437.8	4450.7	4429.2	4399.1	4381.9	4377.6
15°	4140.8	4179.6	4248.4	4356.0	4420.6	4437.8	4407.7	4338.8	4270.0	4231.2	4226.9
17.5°	4188.2	4214.0	4270.0	4364.6	4416.3	4394.8	4334.5	4252.7	4201.1	4171.0	4175.3
20°	4218.3	4218.3	4261.3	4334.5	4377.6	4360.3	4287.2	4196.8	4115.0	4076.3	4063.3
22.5°	4261.3	4239.8	4244.1	4308.7	4369.0	4343.1	4188.2	4028.9	3912.7	3869.6	3865.3
25°	4377.6	4317.3	4278.6	4317.3	4459.3	4248.4	3938.5	3753.4	3645.8	3607.1	3611.4
27.5°	4519.6	4437.8	4356.0	4420.6	4532.5	4033.2	3620.0	3409.1	3344.5	3314.4	3327.3
30°	4661.7	4554.0	4446.4	4678.9	4480.9	3697.5	3211.1	3004.5	2948.5	2927.0	2944.2
32.5°	4924.2	4747.7	4618.6	5023.2	4321.6	3314.4	2767.7	2578.3	2526.7	2500.8	2492.2
35°	5363.3	5139.4	5010.3	5324.5	4097.8	2888.2	2363.1	2229.7	2173.7	2117.8	2109.2
37.5°	5996.0	5724.8	5608.6	5496.7	3783.6	2466.4	2053.2	1962.8	1881.0	1794.9	1790.6
40°	6753.6	6400.6	6314.5	5574.2	3348.8	2070.4	1838.0	1751.9	1648.6	1566.8	1571.1
42.5°	7627.4	7175.4	6990.3	5552.7	2810.8	1859.5	1683.0	1588.3	1497.9	1424.8	1420.4
45°	8561.4	8049.2	7623.1	5402.0	2277.0	1713.1	1588.3	1476.4	1386.0	1304.2	1295.6
47.5°	9594.5	9022.0	8208.5	5109.3	1881.0	1609.8	1532.4	1373.1	1291.3	1239.7	1239.7
50°	10636.1	9951.7	8746.5	4666.0	1648.6	1532.4	1450.6	1317.1	1252.6	1209.5	1209.5
52.5°	11527.2	10920.2	9189.9	4136.5	1502.2	1467.8	1394.6	1291.3	1222.4	1183.7	1179.4
55°	12392.3	11819.9	9585.9	3611.4	1381.7	1381.7	1381.7	1269.8	1192.3	1157.9	1153.6
57.5°	13253.2	12766.8	9999.1	3267.0	1274.1	1308.5	1355.9	1244.0	1166.5	1136.4	1132.1
60°	14226.0	13903.2	10476.9	3026.0	1179.4	1231.1	1321.4	1213.8	1123.4	1097.6	1093.3
62.5°	15259.1	15259.1	10911.6	2685.9	1093.3	1166.5	1269.8	1175.1	1084.7	1063.2	1058.9
65°	16068.3	16416.9	11191.4	2178.0	1007.2	1101.9	1209.5	1123.4	1033.1	1028.7	1020.1
67.5°	16163.0	16709.6	11014.9	1644.3	929.7	1033.1	1149.3	1067.5	981.4	981.4	968.5
70°	15482.9	16038.2	10464.0	1231.1	873.8	964.2	1071.8	998.6	916.8	925.4	903.9
72.5°	14346.5	14484.3	9095.2	972.8	809.2	891.0	977.1	921.1	848.0	848.0	817.8
75°	12848.6	12082.4	6607.2	813.5	731.7	804.9	882.4	835.1	770.5	749.0	731.7
77.5°	10227.2	8755.1	3839.5	701.6	667.2	723.1	774.8	740.4	684.4	637.0	637.0
80°	6232.8	5130.8	1695.9	606.9	589.7	632.7	667.2	628.4	581.1	533.7	520.8
82.5°	2371.7	1980.0	822.1	520.8	516.5	542.4	568.2	529.4	495.0	473.5	408.9
85°	650.0	598.3	563.9	434.7	426.1	421.8	452.0	434.7	387.4	318.5	284.1
87.5°	245.4	279.8	305.6	266.9	284.1	262.6	301.3	275.5	245.4	159.3	142.0
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)