

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: P400149

Luminaire Tested: **ARCH-L-PA3-240-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400149
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-PA3-240-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 32703 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

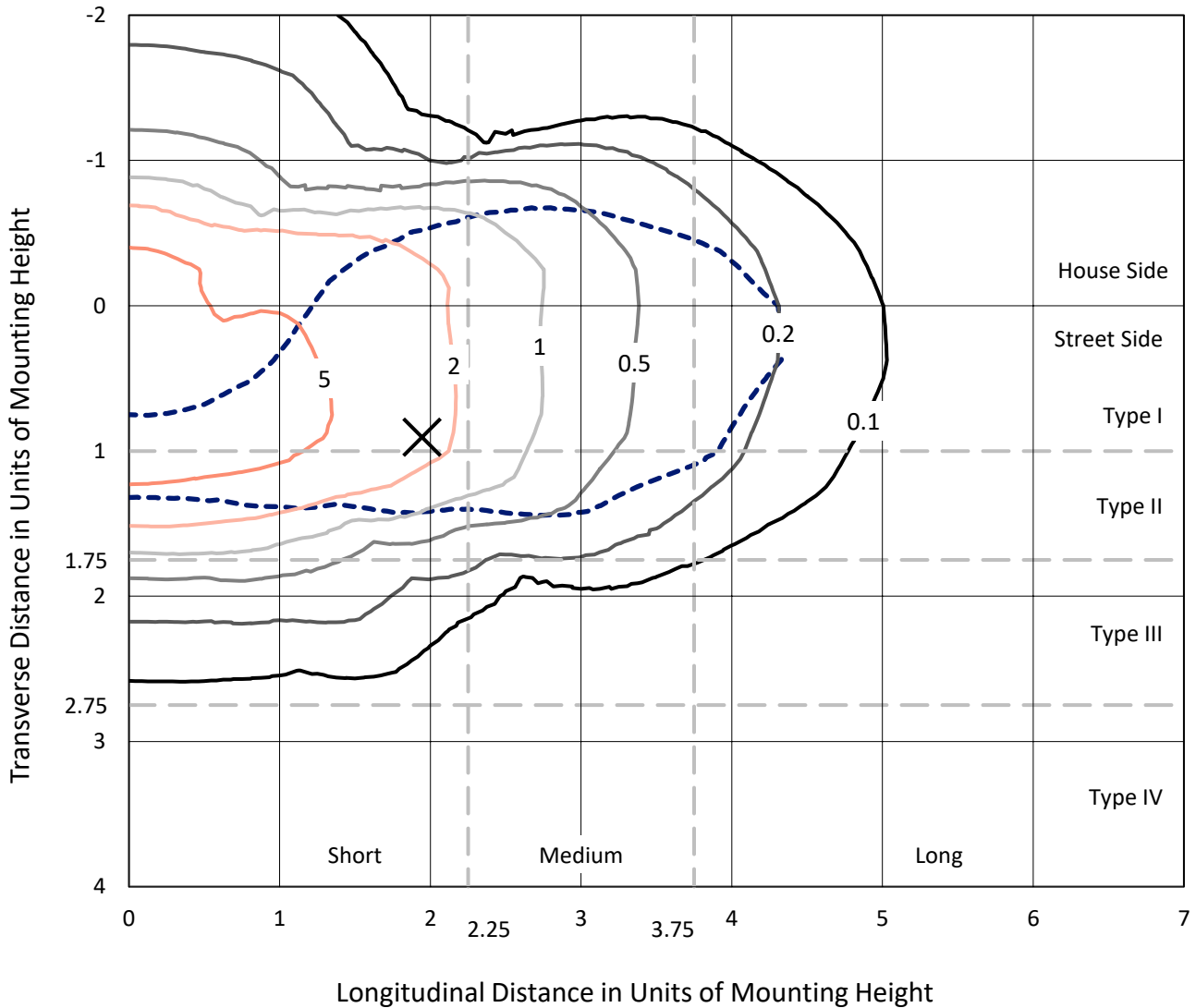
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

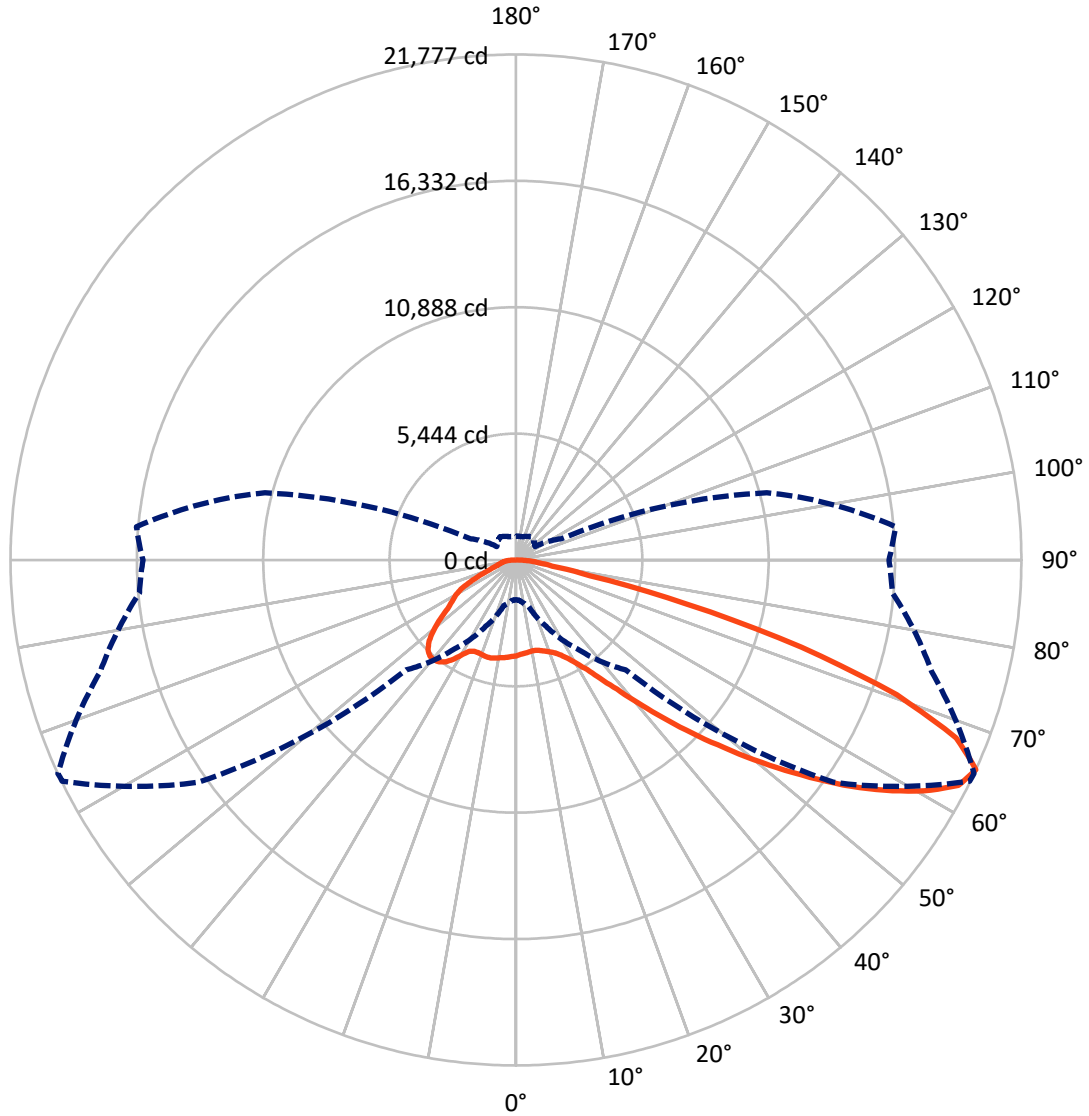
✕ Max cd
 - - - 1/2 Max cd



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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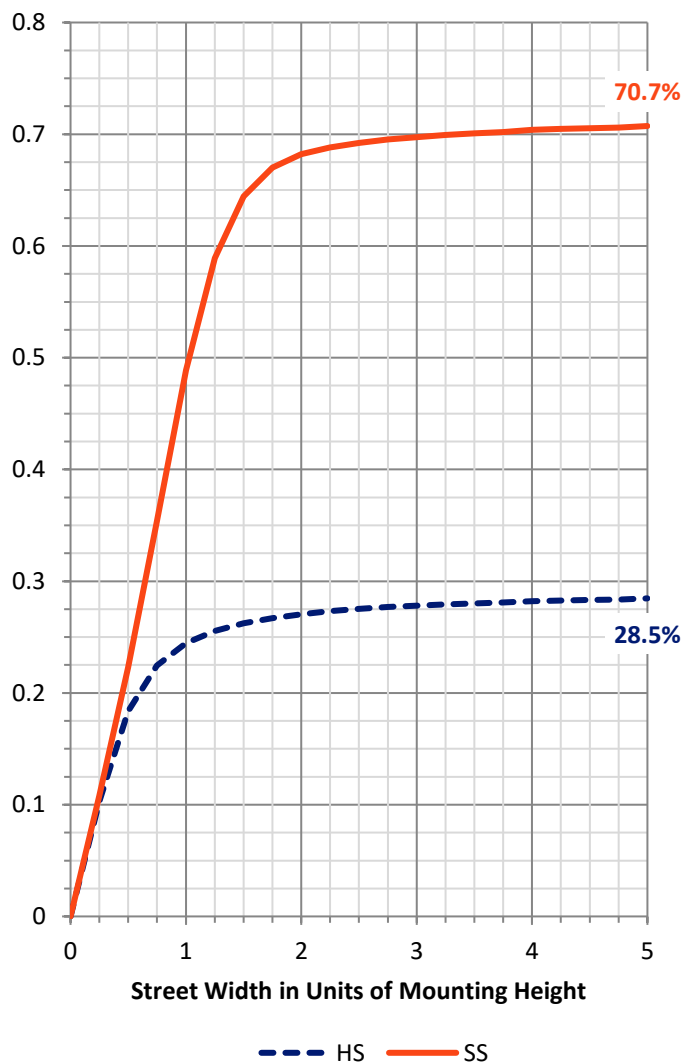
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9454.9	0.0	9454.9
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	23248.1	0.0	23248.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	32703.0	0.0	32703.0
	% 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°	2087.9	6.4
30°-40°	3532.2	10.8
40°-50°	6148.8	18.8
50°-60°	7946.2	24.3
60°-70°	6953.4	21.3
70°-80°	3782.1	11.6
80°-90°	683.4	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°	32703.0	100.0
0°-180°	32703.0	100.0

Coefficient of Utilization



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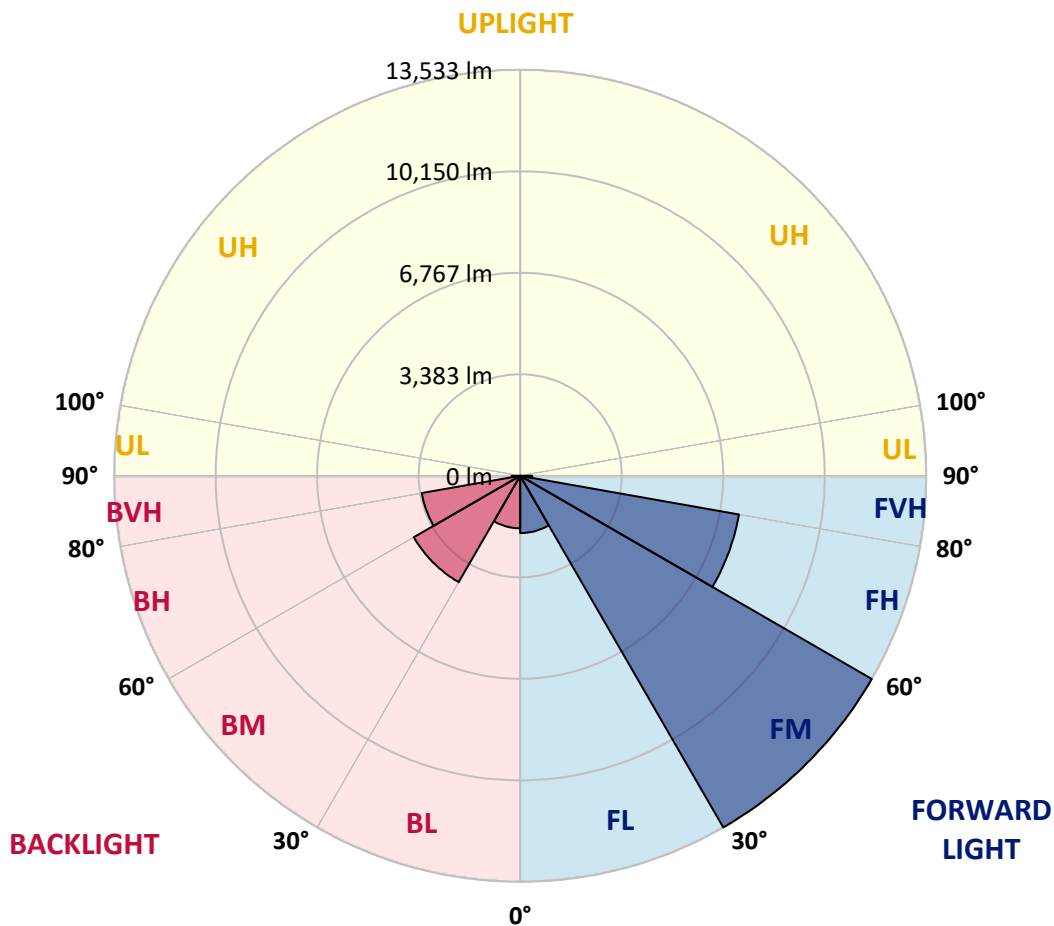
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.1	5.8			
FM (30°-60°)	13533.4	41.4			
FH (60°-80°)	7404.4	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°)	4093.8	12.5	B3/5000		
BH (60°-80°)	3331.1	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°	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3
2.5°	4059.2	4054.9	4046.2	4054.9	4059.2	4067.8	4063.5	4072.1	4067.8	4080.7	4102.2
5°	3955.9	3947.2	3942.9	3964.5	3977.4	3998.9	4007.5	4037.6	4033.3	4054.9	4089.3
7.5°	3839.6	3839.6	3835.3	3861.2	3878.4	3917.1	3947.2	3998.9	4003.2	4041.9	4080.7
10°	3749.2	3753.5	3749.2	3770.8	3796.6	3843.9	3895.6	3968.8	3973.1	4029.0	4067.8
12.5°	3714.8	3714.8	3714.8	3744.9	3779.4	3843.9	3904.2	3981.7	3990.3	4050.6	4085.0
15°	3762.2	3766.5	3757.8	3788.0	3826.7	3904.2	3960.2	4041.9	4050.6	4106.5	4128.0
17.5°	3930.0	3947.2	3925.7	3942.9	3934.3	3994.6	4046.2	4128.0	4132.3	4179.7	4188.3
20°	4261.5	4278.7	4244.3	4222.7	4145.3	4140.9	4162.5	4227.0	4227.0	4257.2	4235.6
22.5°	4773.7	4790.9	4730.7	4648.9	4463.8	4373.4	4326.0	4356.2	4351.9	4364.8	4308.8
25°	5453.8	5449.5	5376.3	5225.7	4928.7	4709.1	4592.9	4545.6	4545.6	4519.7	4450.9
27.5°	6297.5	6232.9	6103.8	5923.0	5509.8	5204.2	4954.5	4834.0	4812.5	4735.0	4605.8
30°	7197.2	7149.8	6964.7	6702.1	6224.3	5832.6	5419.4	5178.3	5165.4	4997.5	4803.8
32.5°	8256.1	8178.6	7972.0	7657.7	7085.2	6534.3	6017.7	5651.8	5630.3	5363.4	5096.6
35°	9616.3	9551.7	9151.4	8837.2	8101.1	7377.9	6766.7	6280.3	6263.1	5935.9	5595.9
37.5°	11247.7	11079.8	10692.4	10102.7	9327.9	8471.3	7696.5	7085.2	7063.7	6702.1	6271.7
40°	12702.6	12552.0	12207.6	11665.2	10834.5	9883.2	8832.9	8092.5	8071.0	7631.9	7089.5
42.5°	13778.8	13675.5	13451.6	13137.4	12543.4	11966.6	10283.5	9310.7	9271.9	8703.7	8027.9
45°	14402.9	14321.1	14192.0	14269.5	14260.9	14153.3	12013.9	10761.3	10636.5	9900.4	9073.9
47.5°	14252.3	14179.1	14230.7	14833.4	15664.1	16288.3	14028.4	12246.4	12078.5	11118.6	10188.8
50°	13163.2	13193.4	13464.5	14618.1	16482.0	17868.1	16262.5	13938.0	13714.2	12345.4	11247.7
52.5°	11178.8	11252.0	11910.6	13524.8	16391.6	18892.5	18281.3	15685.7	15388.7	13542.0	12211.9
55°	8880.2	9065.3	9917.6	11613.6	15212.2	18965.7	19805.1	17441.9	17114.8	14665.5	13051.3
57.5°	6568.7	6844.2	7829.9	9388.2	12952.3	17807.8	20567.0	19120.7	18724.7	15780.4	13938.0
60°	4166.8	4334.7	5471.0	7309.1	9913.3	14975.4	20468.0	20549.8	20205.4	16890.9	14863.5
62.5°	2660.2	2742.0	3314.5	5212.8	6930.3	11088.4	19387.6	21630.2	21397.8	17902.5	15741.6
65°	1708.9	1743.3	2036.0	3206.9	4717.8	6693.5	16697.2	21746.4	21776.6	18535.3	16284.0
67.5°	1390.4	1407.6	1515.2	1980.1	3336.0	3697.6	11630.8	20093.5	20459.4	18371.7	16098.9
70°	1265.5	1287.1	1399.0	1579.8	2582.7	2552.6	5630.3	16813.5	17411.8	17429.0	15276.7
72.5°	1067.5	1097.7	1248.3	1493.7	1997.3	2014.5	2384.7	11975.2	12857.6	15578.1	14041.3
75°	891.0	908.3	1037.4	1317.2	1691.7	1609.9	1674.5	6349.2	7623.3	12491.7	12728.5
77.5°	723.2	740.4	835.1	1050.3	1502.3	1252.6	1317.2	2630.1	3249.9	8479.9	10404.0
80°	516.5	533.8	641.4	817.9	1136.4	1127.8	977.1	1450.6	1575.5	4584.3	6758.1
82.5°	370.2	383.1	486.4	585.4	787.7	1132.1	736.1	985.7	1033.1	2031.7	2724.8
85°	249.7	249.7	335.8	387.4	507.9	714.6	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	335.8	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°	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3	4132.3
2.5°	4115.1	4119.4	4128.0	4153.9	4171.1	4196.9	4209.8	4227.0	4227.0	4218.4	4222.7
5°	4106.5	4119.4	4149.6	4196.9	4227.0	4274.4	4308.8	4334.7	4343.3	4334.7	4339.0
7.5°	4102.2	4123.7	4175.4	4244.3	4287.3	4347.6	4394.9	4425.0	4446.6	4438.0	4442.3
10°	4089.3	4123.7	4188.3	4274.4	4339.0	4399.2	4442.3	4455.2	4468.1	4459.5	4455.2
12.5°	4106.5	4145.3	4214.1	4317.4	4390.6	4438.0	4450.9	4429.4	4399.2	4382.0	4377.7
15°	4140.9	4179.7	4248.6	4356.2	4420.7	4438.0	4407.8	4339.0	4270.1	4231.3	4227.0
17.5°	4188.3	4214.1	4270.1	4364.8	4416.4	4394.9	4334.7	4252.9	4201.2	4171.1	4175.4
20°	4218.4	4218.4	4261.5	4334.7	4377.7	4360.5	4287.3	4196.9	4115.1	4076.4	4063.5
22.5°	4261.5	4240.0	4244.3	4308.8	4369.1	4343.3	4188.3	4029.0	3912.8	3869.8	3865.5
25°	4377.7	4317.4	4278.7	4317.4	4459.5	4248.6	3938.6	3753.5	3645.9	3607.2	3611.5
27.5°	4519.7	4438.0	4356.2	4420.7	4532.7	4033.3	3620.1	3409.2	3344.6	3314.5	3327.4
30°	4661.8	4554.2	4446.6	4679.0	4481.0	3697.6	3211.2	3004.6	2948.6	2927.1	2944.3
32.5°	4924.4	4747.9	4618.7	5023.4	4321.7	3314.5	2767.8	2578.4	2526.8	2500.9	2492.3
35°	5363.4	5139.6	5010.5	5324.7	4097.9	2888.3	2363.2	2229.7	2173.8	2117.8	2109.2
37.5°	5996.2	5725.0	5608.8	5496.9	3783.7	2466.5	2053.3	1962.9	1881.1	1795.0	1790.7
40°	6753.8	6400.8	6314.7	5574.4	3348.9	2070.5	1838.0	1751.9	1648.6	1566.8	1571.1
42.5°	7627.6	7175.6	6990.5	5552.8	2810.9	1859.6	1683.1	1588.4	1498.0	1424.8	1420.5
45°	8561.7	8049.5	7623.3	5402.2	2277.1	1713.2	1588.4	1476.5	1386.1	1304.3	1295.7
47.5°	9594.8	9022.3	8208.7	5109.5	1881.1	1609.9	1532.4	1373.1	1291.4	1239.7	1239.7
50°	10636.5	9952.0	8746.8	4666.1	1648.6	1532.4	1450.6	1317.2	1252.6	1209.6	1209.6
52.5°	11527.5	10920.6	9190.1	4136.6	1502.3	1467.8	1394.7	1291.4	1222.5	1183.7	1179.4
55°	12392.7	11820.2	9586.2	3611.5	1381.8	1381.8	1381.8	1269.8	1192.4	1157.9	1153.6
57.5°	13253.6	12767.2	9999.4	3267.1	1274.1	1308.6	1355.9	1244.0	1166.5	1136.4	1132.1
60°	14226.4	13903.6	10477.2	3026.1	1179.4	1231.1	1321.5	1213.9	1123.5	1097.7	1093.3
62.5°	15259.5	15259.5	10912.0	2686.0	1093.3	1166.5	1269.8	1175.1	1084.7	1063.2	1058.9
65°	16068.8	16417.4	11191.8	2178.1	1007.3	1102.0	1209.6	1123.5	1033.1	1028.8	1020.2
67.5°	16163.5	16710.1	11015.3	1644.3	929.8	1033.1	1149.3	1067.5	981.4	981.4	968.5
70°	15483.4	16038.6	10464.3	1231.1	873.8	964.2	1071.8	998.6	916.9	925.5	903.9
72.5°	14347.0	14484.7	9095.5	972.8	809.2	891.0	977.1	921.2	848.0	848.0	817.9
75°	12849.0	12082.8	6607.4	813.6	731.8	804.9	882.4	835.1	770.5	749.0	731.8
77.5°	10227.5	8755.4	3839.6	701.6	667.2	723.2	774.8	740.4	684.4	637.1	637.1
80°	6232.9	5131.0	1696.0	606.9	589.7	632.8	667.2	628.5	581.1	533.8	520.8
82.5°	2371.8	1980.1	822.2	520.8	516.5	542.4	568.2	529.5	495.0	473.5	408.9
85°	650.0	598.3	563.9	434.8	426.1	421.8	452.0	434.8	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)