

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: P400428

Luminaire Tested: **ARCH-L-PA3-280-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400428
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-PA3-280-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32519 lumens
Efficiency: N/A
Efficacy: 116.6 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

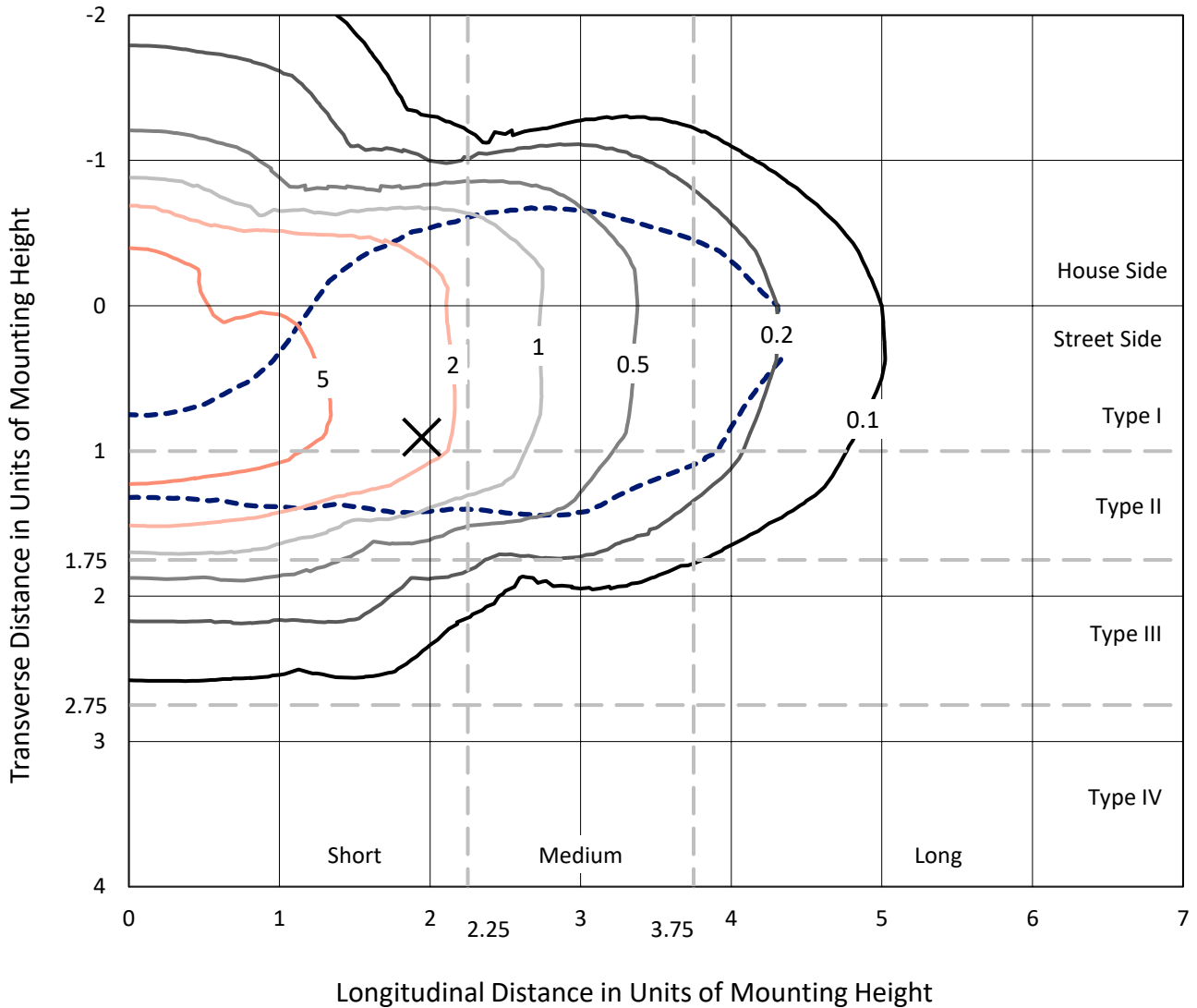
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

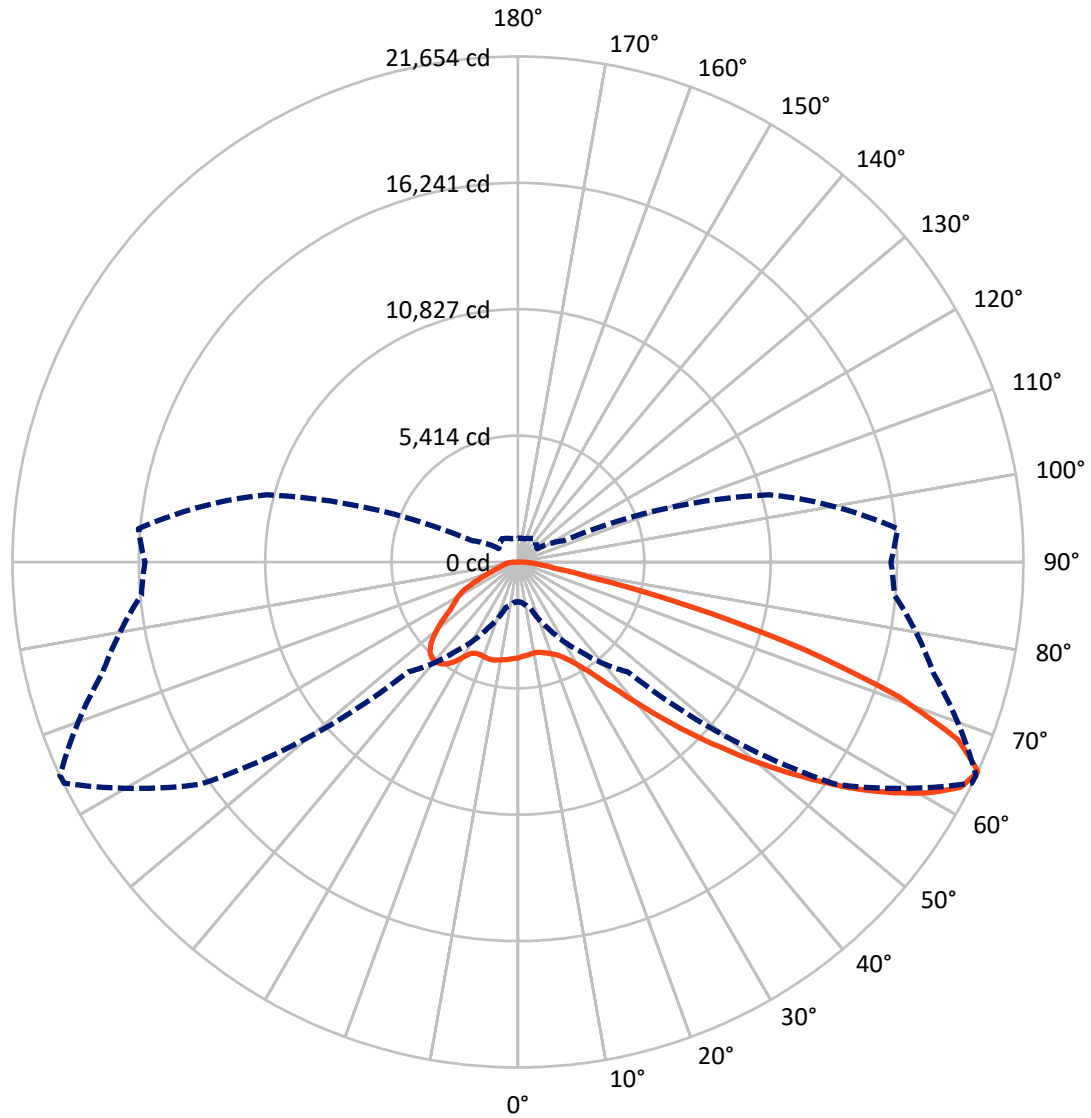
✕ Max cd
 - - - 1/2 Max cd



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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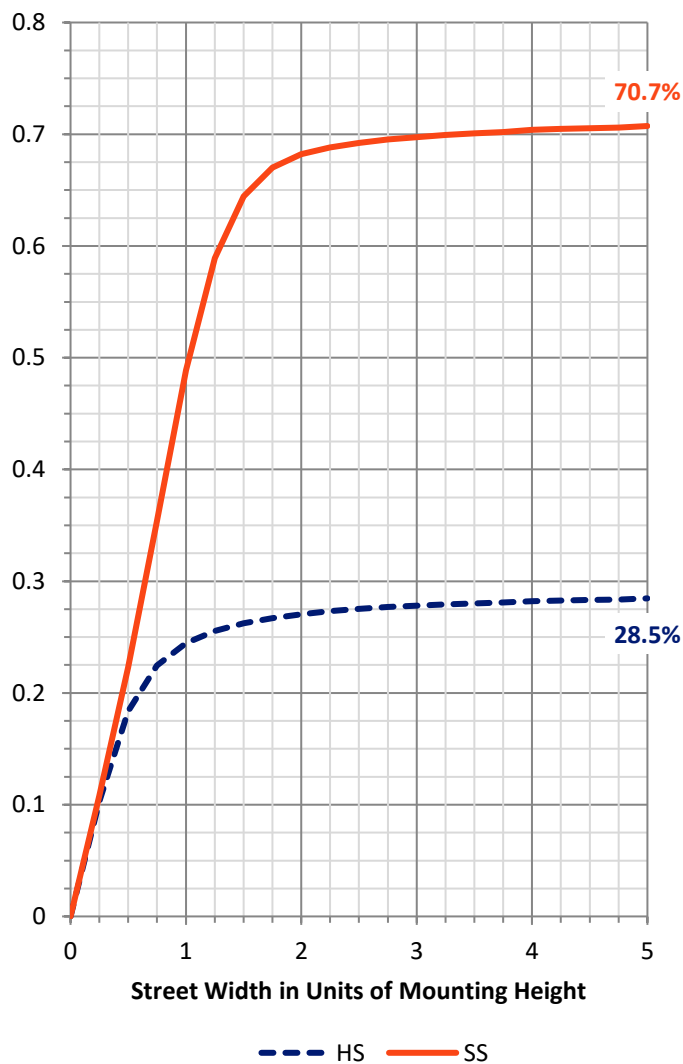
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9401.7	0.0	9401.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	23117.3	0.0	23117.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	32519.0	0.0	32519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.5	1.2
10°-20°	1168.8	3.6
20°-30°	2076.1	6.4
30°-40°	3512.3	10.8
40°-50°	6114.2	18.8
50°-60°	7901.5	24.3
60°-70°	6914.3	21.3
70°-80°	3760.9	11.6
80°-90°	679.5	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°	32519.0	100.0
0°-180°	32519.0	100.0

Coefficient of Utilization



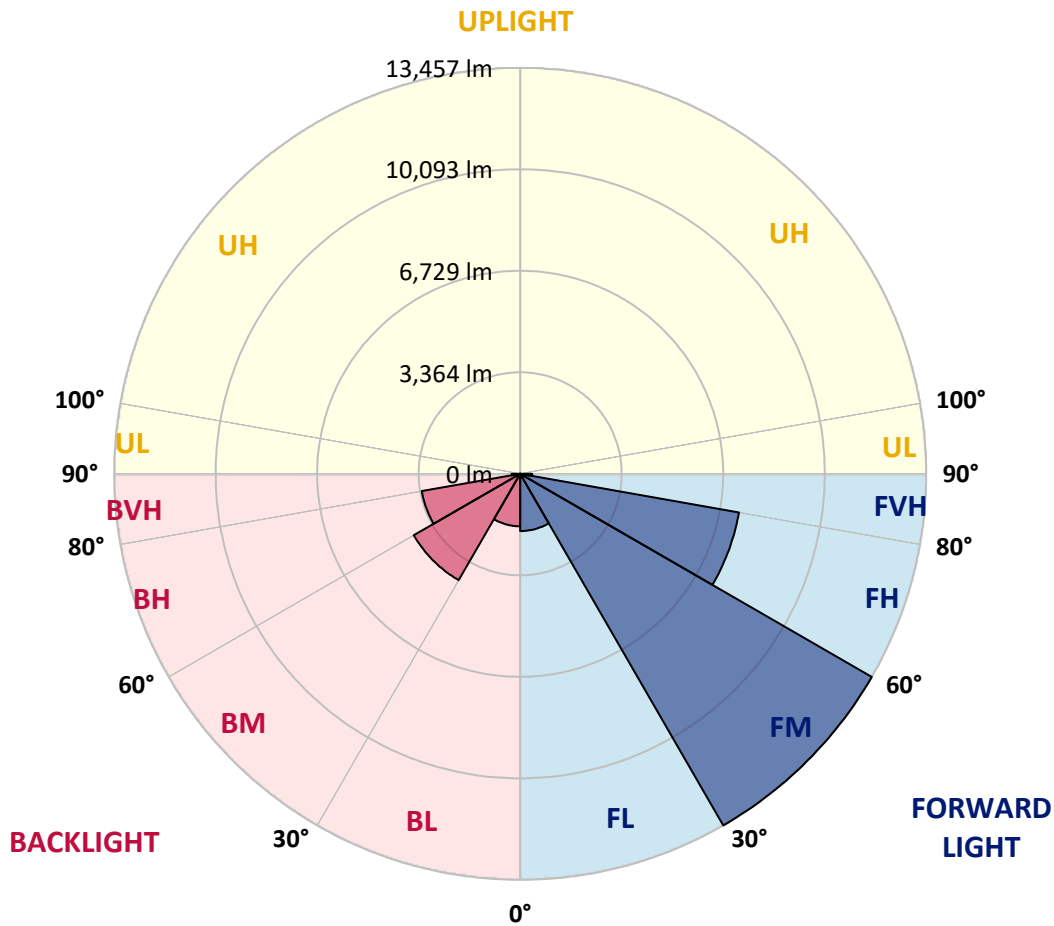
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.4	5.8			
FM (30°-60°)	13457.3	41.4			
FH (60°-80°)	7362.8	22.6			G3/7500
FVH (80°-90°)	399.9	1.2			G3/500
BL (0°-30°)	1739.0	5.3	B3/2500		
BM (30°-60°)	4070.7	12.5	B3/5000		
BH (60°-80°)	3312.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	279.6	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°	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1
2.5°	4036.3	4032.0	4023.5	4032.0	4036.3	4044.9	4040.6	4049.2	4044.9	4057.7	4079.1
5°	3933.6	3925.0	3920.8	3942.2	3955.0	3976.4	3985.0	4014.9	4010.6	4032.0	4066.3
7.5°	3818.0	3818.0	3813.7	3839.4	3856.6	3895.1	3925.0	3976.4	3980.7	4019.2	4057.7
10°	3728.1	3732.4	3728.1	3749.5	3775.2	3822.3	3873.7	3946.4	3950.7	4006.4	4044.9
12.5°	3693.9	3693.9	3693.9	3723.9	3758.1	3822.3	3882.2	3959.3	3967.8	4027.8	4062.0
15°	3741.0	3745.3	3736.7	3766.7	3805.2	3882.2	3937.9	4019.2	4027.8	4083.4	4104.8
17.5°	3907.9	3925.0	3903.6	3920.8	3912.2	3972.1	4023.5	4104.8	4109.1	4156.2	4164.7
20°	4237.5	4254.6	4220.4	4199.0	4121.9	4117.6	4139.1	4203.3	4203.3	4233.2	4211.8
22.5°	4746.9	4764.0	4704.1	4622.7	4438.7	4348.8	4301.7	4331.7	4327.4	4340.2	4284.6
25°	5423.1	5418.9	5346.1	5196.3	4900.9	4682.6	4567.1	4520.0	4520.0	4494.3	4425.8
27.5°	6262.1	6197.9	6069.5	5889.7	5478.8	5174.9	4926.6	4806.8	4785.4	4708.3	4579.9
30°	7156.7	7109.6	6925.5	6664.4	6189.3	5799.8	5388.9	5149.2	5136.4	4969.4	4776.8
32.5°	8209.6	8132.6	7927.1	7614.7	7045.4	6497.5	5983.9	5620.0	5598.6	5333.3	5067.9
35°	9562.2	9498.0	9099.9	8787.5	8055.5	7336.4	6728.6	6245.0	6227.8	5902.5	5564.4
37.5°	11184.4	11017.5	10632.3	10045.9	9275.4	8423.6	7653.2	7045.4	7024.0	6664.4	6236.4
40°	12631.2	12481.4	12138.9	11599.6	10773.5	9827.6	8783.2	8047.0	8025.6	7589.0	7049.7
42.5°	13701.2	13598.5	13375.9	13063.5	12472.8	11899.2	10225.6	9258.3	9219.8	8654.8	7982.8
45°	14321.9	14240.6	14112.2	14189.2	14180.6	14073.6	11946.3	10700.8	10576.6	9844.7	9022.9
47.5°	14172.1	14099.3	14150.7	14749.9	15576.0	16196.7	13949.5	12177.5	12010.5	11056.0	10131.5
50°	13089.2	13119.1	13388.8	14535.9	16389.3	17767.5	16171.0	13859.6	13637.0	12275.9	11184.4
52.5°	11115.9	11188.7	11843.6	13448.7	16299.4	18786.2	18178.4	15597.4	15302.1	13465.8	12143.2
55°	8830.3	9014.3	9861.8	11548.3	15126.6	18859.0	19693.7	17343.8	17018.5	14583.0	12977.9
57.5°	6531.7	6805.7	7785.9	9335.3	12879.4	17707.6	20451.3	19013.1	18619.3	15691.6	13859.6
60°	4143.3	4310.3	5440.3	7268.0	9857.5	14891.2	20352.8	20434.2	20091.7	16795.9	14779.9
62.5°	2645.2	2726.6	3295.8	5183.4	6891.3	11026.1	19278.5	21508.5	21277.4	17801.8	15653.1
65°	1699.3	1733.5	2024.6	3188.8	4691.2	6655.9	16603.3	21624.1	21654.0	18431.0	16192.4
67.5°	1382.5	1399.7	1506.7	1968.9	3317.2	3676.8	11565.4	19980.4	20344.3	18268.3	16008.3
70°	1258.4	1279.8	1391.1	1570.9	2568.2	2538.2	5598.6	16718.9	17313.8	17330.9	15190.8
72.5°	1061.5	1091.5	1241.3	1485.3	1986.1	2003.2	2371.3	11907.8	12785.3	15490.4	13962.3
75°	886.0	903.1	1031.6	1309.8	1682.2	1600.8	1665.0	6313.4	7580.4	12421.4	12656.8
77.5°	719.1	736.2	830.4	1044.4	1493.8	1245.6	1309.8	2615.3	3231.6	8432.2	10345.5
80°	513.6	530.8	637.8	813.3	1130.0	1121.4	971.6	1442.5	1566.6	4558.5	6720.1
82.5°	368.1	380.9	483.7	582.1	783.3	1125.7	731.9	980.2	1027.3	2020.3	2709.4
85°	248.3	248.3	333.9	385.2	505.1	710.5	590.7	663.4	693.4	958.8	731.9
87.5°	107.0	107.0	179.8	196.9	265.4	329.6	440.9	333.9	342.4	517.9	299.6
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°	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1
2.5°	4092.0	4096.2	4104.8	4130.5	4147.6	4173.3	4186.1	4203.3	4203.3	4194.7	4199.0
5°	4083.4	4096.2	4126.2	4173.3	4203.3	4250.3	4284.6	4310.3	4318.8	4310.3	4314.5
7.5°	4079.1	4100.5	4151.9	4220.4	4263.2	4323.1	4370.2	4400.1	4421.6	4413.0	4417.3
10°	4066.3	4100.5	4164.7	4250.3	4314.5	4374.5	4417.3	4430.1	4443.0	4434.4	4430.1
12.5°	4083.4	4121.9	4190.4	4293.1	4365.9	4413.0	4425.8	4404.4	4374.5	4357.3	4353.1
15°	4117.6	4156.2	4224.7	4331.7	4395.9	4413.0	4383.0	4314.5	4246.1	4207.5	4203.3
17.5°	4164.7	4190.4	4246.1	4340.2	4391.6	4370.2	4310.3	4228.9	4177.6	4147.6	4151.9
20°	4194.7	4194.7	4237.5	4310.3	4353.1	4335.9	4263.2	4173.3	4092.0	4053.4	4040.6
22.5°	4237.5	4216.1	4220.4	4284.6	4344.5	4318.8	4164.7	4006.4	3890.8	3848.0	3843.7
25°	4353.1	4293.1	4254.6	4293.1	4434.4	4224.7	3916.5	3732.4	3625.4	3586.9	3591.2
27.5°	4494.3	4413.0	4331.7	4395.9	4507.2	4010.6	3599.7	3390.0	3325.8	3295.8	3308.7
30°	4635.6	4528.6	4421.6	4652.7	4455.8	3676.8	3193.1	2987.7	2932.0	2910.6	2927.7
32.5°	4896.7	4721.2	4592.8	4995.1	4297.4	3295.8	2752.2	2563.9	2512.5	2486.9	2478.3
35°	5333.3	5110.7	4982.3	5294.7	4074.8	2872.1	2349.9	2217.2	2161.6	2105.9	2097.3
37.5°	5962.5	5692.8	5577.2	5465.9	3762.4	2452.6	2041.7	1951.8	1870.5	1784.9	1780.6
40°	6715.8	6364.8	6279.2	5543.0	3330.1	2058.8	1827.7	1742.1	1639.4	1558.0	1562.3
42.5°	7584.7	7135.3	6951.2	5521.6	2795.0	1849.1	1673.6	1579.4	1489.5	1416.8	1412.5
45°	8513.5	8004.2	7580.4	5371.8	2264.3	1703.6	1579.4	1468.1	1378.3	1296.9	1288.4
47.5°	9540.8	8971.5	8162.5	5080.7	1870.5	1600.8	1523.8	1365.4	1284.1	1232.7	1232.7
50°	10576.6	9896.1	8697.6	4639.8	1639.4	1523.8	1442.5	1309.8	1245.6	1202.8	1202.8
52.5°	11462.6	10859.1	9138.4	4113.4	1493.8	1459.6	1386.8	1284.1	1215.6	1177.1	1172.8
55°	12323.0	11753.7	9532.2	3591.2	1374.0	1374.0	1374.0	1262.7	1185.6	1151.4	1147.1
57.5°	13179.0	12695.4	9943.1	3248.7	1267.0	1301.2	1348.3	1237.0	1160.0	1130.0	1125.7
60°	14146.4	13825.4	10418.3	3009.1	1172.8	1224.2	1314.1	1207.0	1117.2	1091.5	1087.2
62.5°	15173.7	15173.7	10850.6	2670.9	1087.2	1160.0	1262.7	1168.5	1078.6	1057.2	1053.0
65°	15978.4	16325.1	11128.8	2165.8	1001.6	1095.8	1202.8	1117.2	1027.3	1023.0	1014.4
67.5°	16072.5	16616.1	10953.3	1635.1	924.5	1027.3	1142.8	1061.5	975.9	975.9	963.1
70°	15396.2	15948.4	10405.4	1224.2	868.9	958.8	1065.8	993.0	911.7	920.3	898.9
72.5°	14266.2	14403.2	9044.3	967.3	804.7	886.0	971.6	916.0	843.2	843.2	813.3
75°	12776.7	12014.8	6570.3	809.0	727.7	800.4	877.5	830.4	766.2	744.8	727.7
77.5°	10170.0	8706.1	3818.0	697.7	663.4	719.1	770.5	736.2	680.6	633.5	633.5
80°	6197.9	5102.1	1686.4	603.5	586.4	629.2	663.4	624.9	577.8	530.8	517.9
82.5°	2358.4	1968.9	817.5	517.9	513.6	539.3	565.0	526.5	492.2	470.8	406.6
85°	646.3	595.0	560.7	432.3	423.7	419.5	449.4	432.3	385.2	316.7	282.5
87.5°	244.0	278.2	303.9	265.4	282.5	261.1	299.6	273.9	244.0	158.4	141.2
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)