

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: P400284

Luminaire Tested: **ARCH-L-PA3-260-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400284
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-PA3-260-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31188 lumens
Efficiency: N/A
Efficacy: 119.5 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

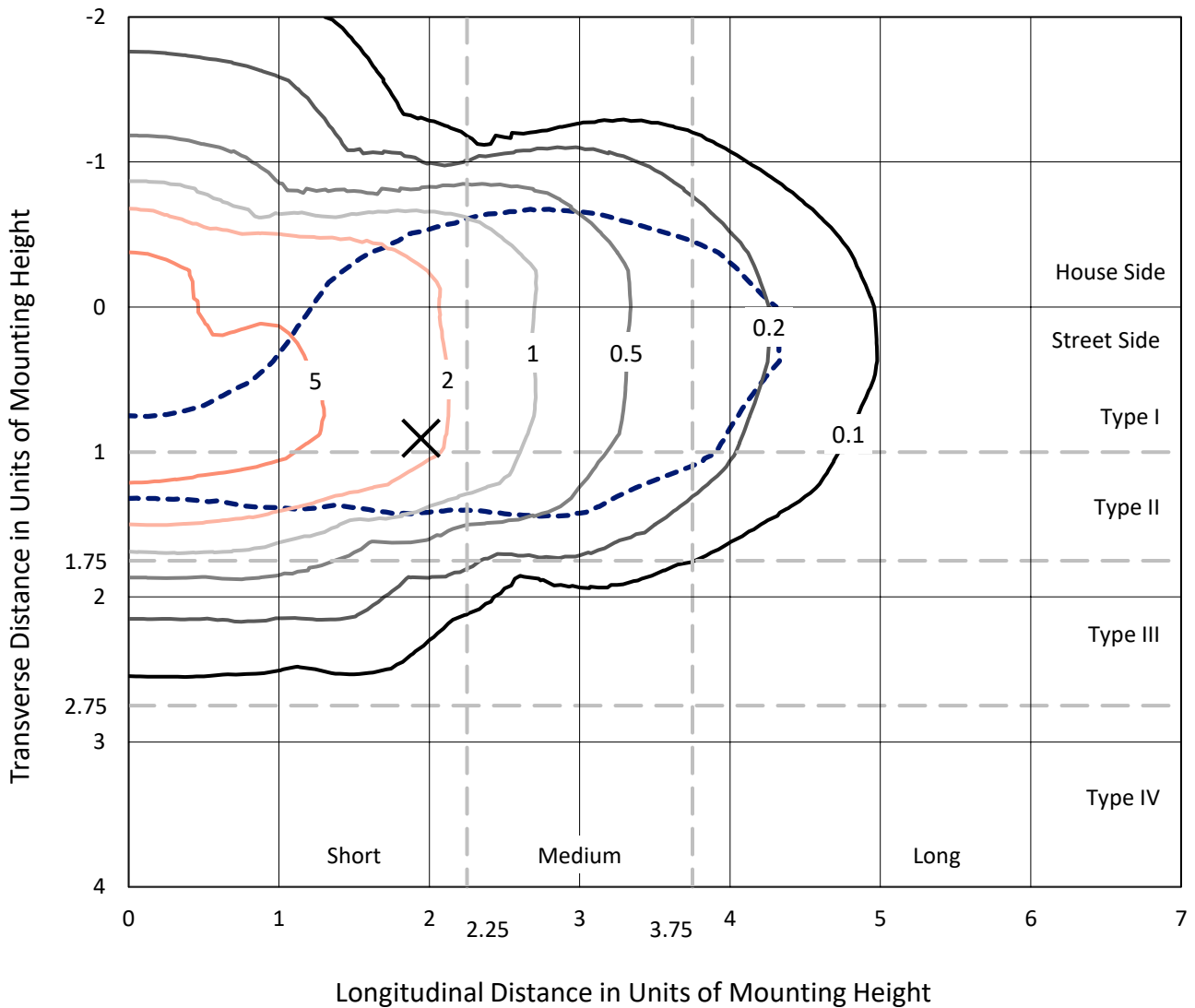
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400284
 CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

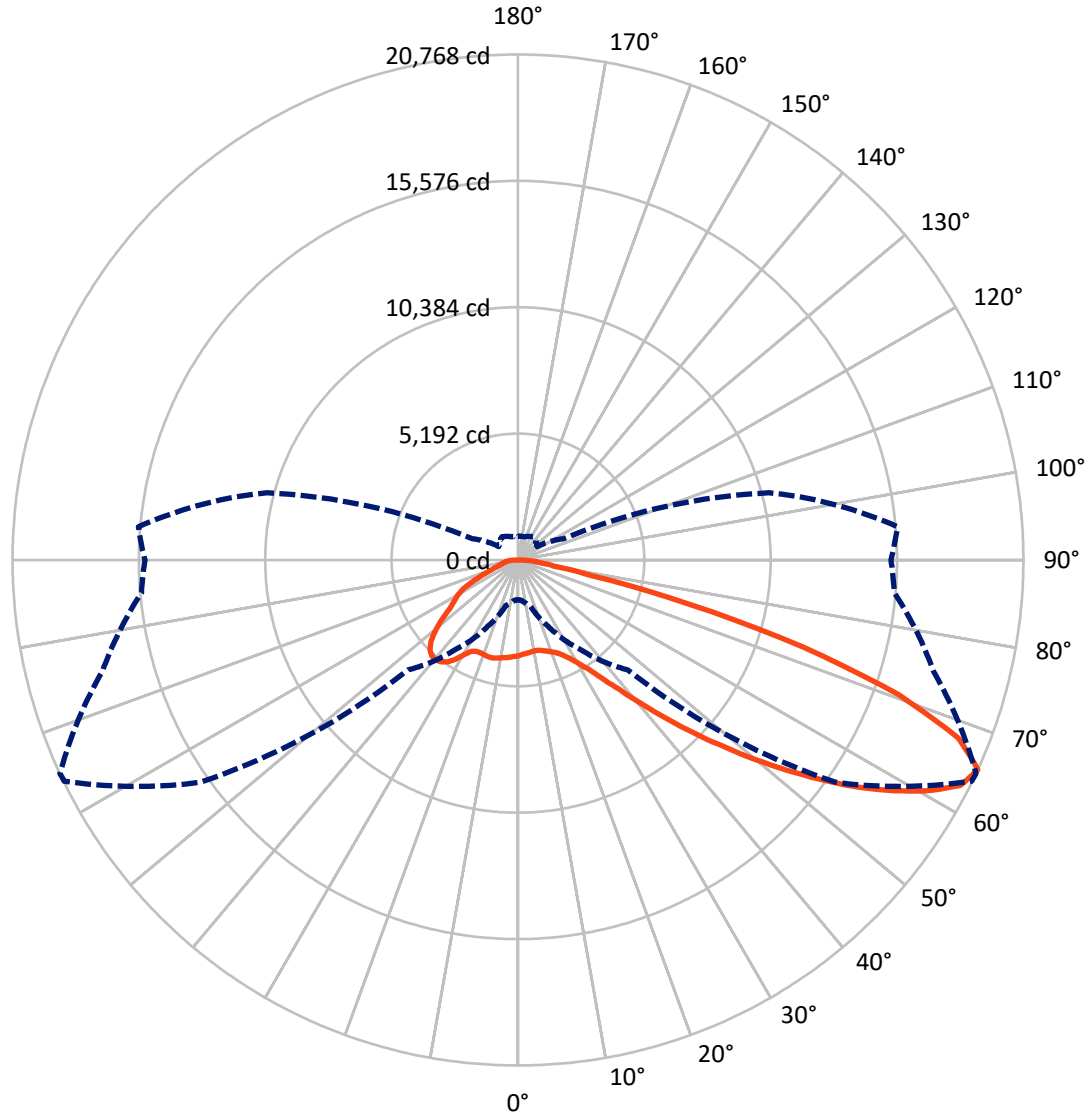
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P400284
CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U

Luminous Intensity Polar Plot



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

REPORT NUMBER: P400284

CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U

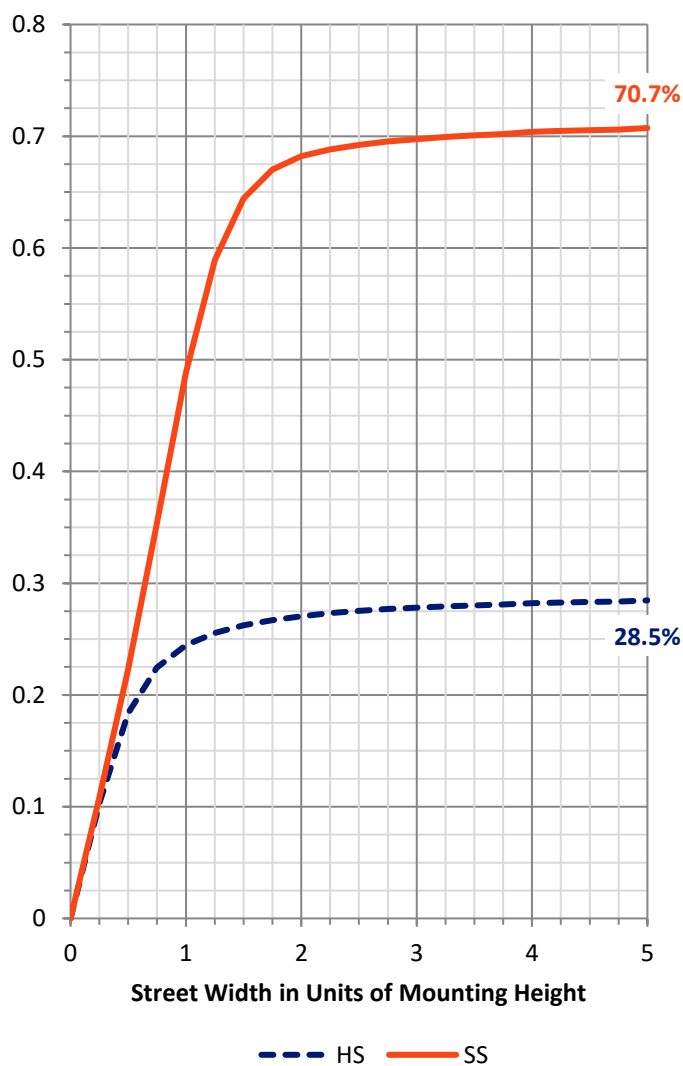
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9016.9	0.0	9016.9
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	22171.1	0.0	22171.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	31188.0	0.0	31188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.4	1.2
10°-20°	1121.0	3.6
20°-30°	1991.2	6.4
30°-40°	3368.5	10.8
40°-50°	5864.0	18.8
50°-60°	7578.1	24.3
60°-70°	6631.3	21.3
70°-80°	3606.9	11.6
80°-90°	651.7	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°	31188.0	100.0
0°-180°	31188.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400284

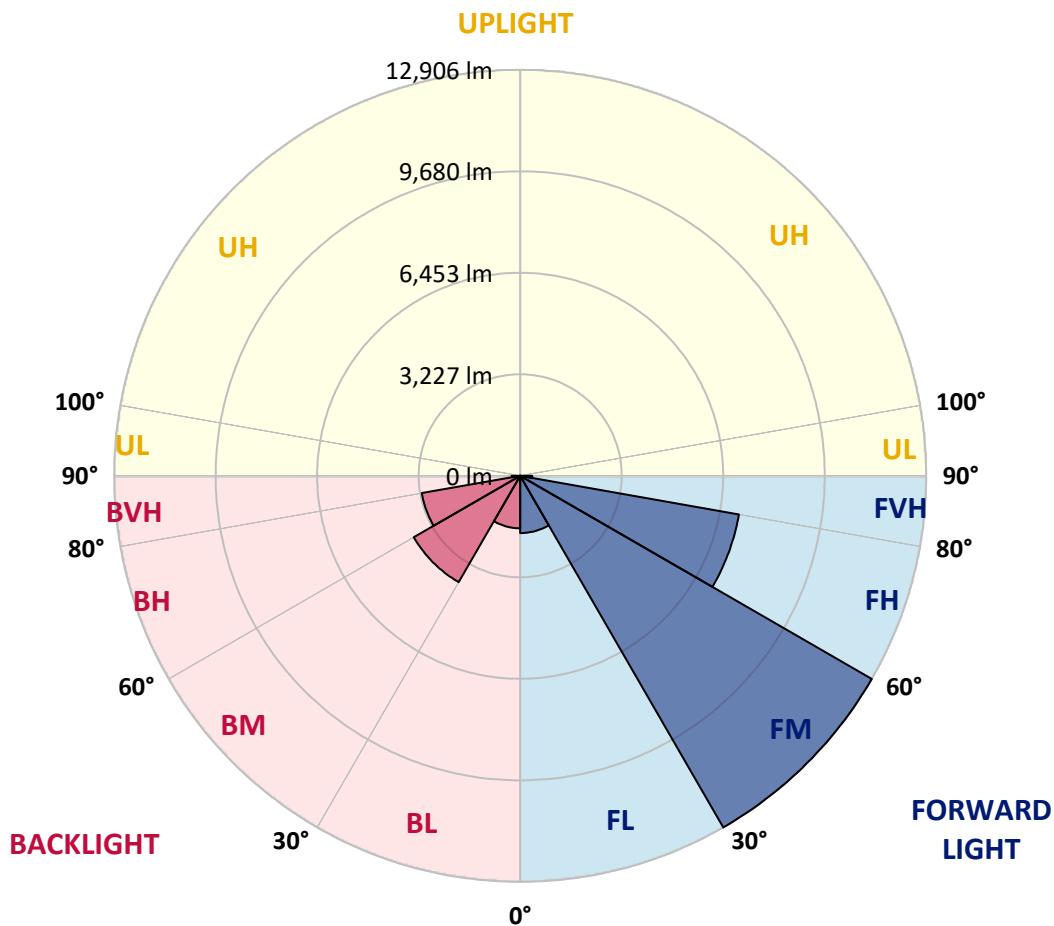
CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1819.7	5.8			
FM (30°-60°)	12906.4	41.4			
FH (60°-80°)	7061.4	22.6			G3/7500
FVH (80°-90°)	383.5	1.2			G3/500
BL (0°-30°)	1667.8	5.3	B3/2500		
BM (30°-60°)	3904.1	12.5	B3/5000		
BH (60°-80°)	3176.8	10.2	B4/5000		G4/5000
BVH (80°-90°)	268.2	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





REPORT NUMBER: P400284

CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9
2.5°	3871.1	3867.0	3858.8	3867.0	3871.1	3879.3	3875.2	3883.4	3879.3	3891.6	3912.2
5°	3772.6	3764.4	3760.3	3780.8	3793.1	3813.6	3821.9	3850.6	3846.5	3867.0	3899.9
7.5°	3661.8	3661.8	3657.7	3682.3	3698.7	3735.6	3764.4	3813.6	3817.8	3854.7	3891.6
10°	3575.5	3579.7	3575.5	3596.1	3620.7	3665.9	3715.1	3784.9	3789.0	3842.4	3879.3
12.5°	3542.7	3542.7	3542.7	3571.4	3604.3	3665.9	3723.3	3797.2	3805.4	3862.9	3895.7
15°	3587.9	3592.0	3583.8	3612.5	3649.4	3723.3	3776.7	3854.7	3862.9	3916.3	3936.8
17.5°	3748.0	3764.4	3743.9	3760.3	3752.1	3809.5	3858.8	3936.8	3940.9	3986.1	3994.3
20°	4064.1	4080.5	4047.6	4027.1	3953.2	3949.1	3969.6	4031.2	4031.2	4060.0	4039.4
22.5°	4552.6	4569.0	4511.5	4433.5	4257.0	4170.8	4125.6	4154.4	4150.3	4162.6	4109.2
25°	5201.2	5197.1	5127.3	4983.6	4700.3	4491.0	4380.2	4335.0	4335.0	4310.4	4244.7
27.5°	6005.8	5944.2	5821.0	5648.6	5254.5	4963.1	4725.0	4610.0	4589.5	4515.6	4392.5
30°	6863.7	6818.6	6642.1	6391.7	5936.0	5562.4	5168.3	4938.4	4926.1	4766.0	4581.3
32.5°	7873.6	7799.7	7602.7	7303.0	6757.0	6231.6	5738.9	5390.0	5369.5	5115.0	4860.4
35°	9170.8	9109.2	8727.5	8427.8	7725.8	7036.2	6453.2	5989.4	5972.9	5660.9	5336.6
37.5°	10726.6	10566.5	10197.1	9634.7	8895.8	8078.9	7339.9	6757.0	6736.5	6391.7	5981.1
40°	12114.2	11970.5	11642.1	11124.8	10332.6	9425.3	8423.7	7717.6	7697.1	7278.4	6761.1
42.5°	13140.5	13041.9	12828.5	12528.8	11962.3	11412.2	9807.1	8879.3	8842.4	8300.5	7656.0
45°	13735.7	13657.7	13534.5	13608.4	13600.2	13497.6	11457.4	10262.8	10143.7	9441.7	8653.6
47.5°	13592.0	13522.2	13571.5	14146.2	14938.5	15533.7	13378.5	11679.0	11518.9	10603.5	9716.8
50°	12553.4	12582.2	12840.8	13940.9	15718.5	17040.3	15509.1	13292.3	13078.9	11773.5	10726.6
52.5°	10661.0	10730.8	11358.8	12898.3	15632.3	18017.3	17434.4	14959.0	14675.8	12914.7	11646.2
55°	8468.8	8645.4	9458.2	11075.6	14507.5	18087.1	18887.6	16633.9	16321.9	13986.1	12446.7
57.5°	6264.4	6527.1	7467.2	8953.2	12352.3	16982.8	19614.2	18234.9	17857.2	15049.3	13292.3
60°	3973.7	4133.8	5217.6	6970.5	9454.1	14281.7	19519.8	19597.8	19269.4	16108.4	14174.9
62.5°	2537.0	2615.0	3160.9	4971.3	6609.2	10574.8	18489.4	20628.2	20406.5	17073.1	15012.4
65°	1629.7	1662.6	1941.7	3058.3	4499.2	6383.4	15923.7	20739.0	20767.7	17676.6	15529.6
67.5°	1326.0	1342.4	1445.0	1888.3	3181.5	3526.3	11092.0	19162.6	19511.6	17520.6	15353.1
70°	1206.9	1227.4	1334.2	1506.6	2463.1	2434.3	5369.5	16034.6	16605.2	16621.6	14569.0
72.5°	1018.1	1046.8	1190.5	1424.5	1904.8	1921.2	2274.2	11420.4	12262.0	14856.4	13390.9
75°	849.8	866.2	989.3	1256.2	1613.3	1535.3	1596.9	6055.0	7270.1	11913.0	12138.8
77.5°	689.7	706.1	796.4	1001.6	1432.7	1194.6	1256.2	2508.2	3099.4	8087.1	9922.0
80°	492.6	509.0	611.7	780.0	1083.7	1075.5	931.9	1383.4	1502.5	4371.9	6445.0
82.5°	353.0	365.4	463.9	558.3	751.2	1079.6	702.0	940.1	985.2	1937.6	2598.5
85°	238.1	238.1	320.2	369.5	484.4	681.4	566.5	636.3	665.0	919.5	702.0
87.5°	102.6	102.6	172.4	188.8	254.5	316.1	422.8	320.2	328.4	496.7	287.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400284

CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9	3940.9
2.5°	3924.5	3928.6	3936.8	3961.4	3977.9	4002.5	4014.8	4031.2	4031.2	4023.0	4027.1
5°	3916.3	3928.6	3957.3	4002.5	4031.2	4076.4	4109.2	4133.8	4142.1	4133.8	4137.9
7.5°	3912.2	3932.7	3982.0	4047.6	4088.7	4146.2	4191.3	4220.1	4240.6	4232.4	4236.5
10°	3899.9	3932.7	3994.3	4076.4	4137.9	4195.4	4236.5	4248.8	4261.1	4252.9	4248.8
12.5°	3916.3	3953.2	4018.9	4117.4	4187.2	4232.4	4244.7	4224.2	4195.4	4179.0	4174.9
15°	3949.1	3986.1	4051.7	4154.4	4215.9	4232.4	4203.6	4137.9	4072.3	4035.3	4031.2
17.5°	3994.3	4018.9	4072.3	4162.6	4211.8	4191.3	4133.8	4055.8	4006.6	3977.9	3982.0
20°	4023.0	4023.0	4064.1	4133.8	4174.9	4158.5	4088.7	4002.5	3924.5	3887.5	3875.2
22.5°	4064.1	4043.5	4047.6	4109.2	4166.7	4142.1	3994.3	3842.4	3731.5	3690.5	3686.4
25°	4174.9	4117.4	4080.5	4117.4	4252.9	4051.7	3756.2	3579.7	3477.0	3440.1	3444.2
27.5°	4310.4	4232.4	4154.4	4215.9	4322.7	3846.5	3452.4	3251.2	3189.7	3160.9	3173.2
30°	4445.8	4343.2	4240.6	4462.3	4273.4	3526.3	3062.4	2865.4	2812.0	2791.5	2807.9
32.5°	4696.2	4527.9	4404.8	4790.7	4121.5	3160.9	2639.6	2459.0	2409.7	2385.1	2376.9
35°	5115.0	4901.5	4778.3	5078.0	3908.1	2754.5	2253.7	2126.4	2073.1	2019.7	2011.5
37.5°	5718.4	5459.8	5349.0	5242.2	3608.4	2352.2	1958.1	1871.9	1793.9	1711.8	1707.7
40°	6440.9	6104.3	6022.2	5316.1	3193.8	1974.6	1752.9	1670.8	1572.3	1494.3	1498.4
42.5°	7274.3	6843.2	6666.7	5295.6	2680.6	1773.4	1605.1	1514.8	1428.6	1358.8	1354.7
45°	8165.1	7676.6	7270.1	5151.9	2171.6	1633.8	1514.8	1408.1	1321.8	1243.8	1235.6
47.5°	9150.3	8604.3	7828.4	4872.8	1793.9	1535.3	1461.4	1309.5	1231.5	1182.3	1182.3
50°	10143.7	9491.0	8341.6	4449.9	1572.3	1461.4	1383.4	1256.2	1194.6	1153.5	1153.5
52.5°	10993.5	10414.7	8764.4	3945.0	1432.7	1399.8	1330.1	1231.5	1165.9	1128.9	1124.8
55°	11818.6	11272.6	9142.1	3444.2	1317.7	1317.7	1317.7	1211.0	1137.1	1104.3	1100.2
57.5°	12639.6	12175.8	9536.2	3115.8	1215.1	1248.0	1293.1	1186.4	1112.5	1083.7	1079.6
60°	13567.4	13259.5	9991.8	2885.9	1124.8	1174.1	1260.3	1157.6	1071.4	1046.8	1042.7
62.5°	14552.6	14552.6	10406.5	2561.6	1042.7	1112.5	1211.0	1120.7	1034.5	1014.0	1009.9
65°	15324.4	15656.9	10673.3	2077.2	960.6	1050.9	1153.5	1071.4	985.2	981.1	972.9
67.5°	15414.7	15936.0	10505.0	1568.2	886.7	985.2	1096.1	1018.1	936.0	936.0	923.6
70°	14766.1	15295.6	9979.5	1174.1	833.3	919.5	1022.2	952.4	874.4	882.6	862.1
72.5°	13682.3	13813.7	8674.1	927.8	771.8	849.8	931.9	878.5	808.7	808.7	780.0
75°	12253.7	11523.0	6301.3	775.9	697.9	767.7	841.5	796.4	734.8	714.3	697.9
77.5°	9753.7	8349.8	3661.8	669.1	636.3	689.7	738.9	706.1	652.7	607.6	607.6
80°	5944.2	4893.3	1617.4	578.8	562.4	603.5	636.3	599.3	554.2	509.0	496.7
82.5°	2261.9	1888.3	784.1	496.7	492.6	517.2	541.9	504.9	472.1	451.6	390.0
85°	619.9	570.6	537.8	414.6	406.4	402.3	431.0	414.6	369.5	303.8	270.9
87.5°	234.0	266.8	291.5	254.5	270.9	250.4	287.4	262.7	234.0	151.9	135.5
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)