

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: P320927

Luminaire Tested: **GAN-SA3C-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20176 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

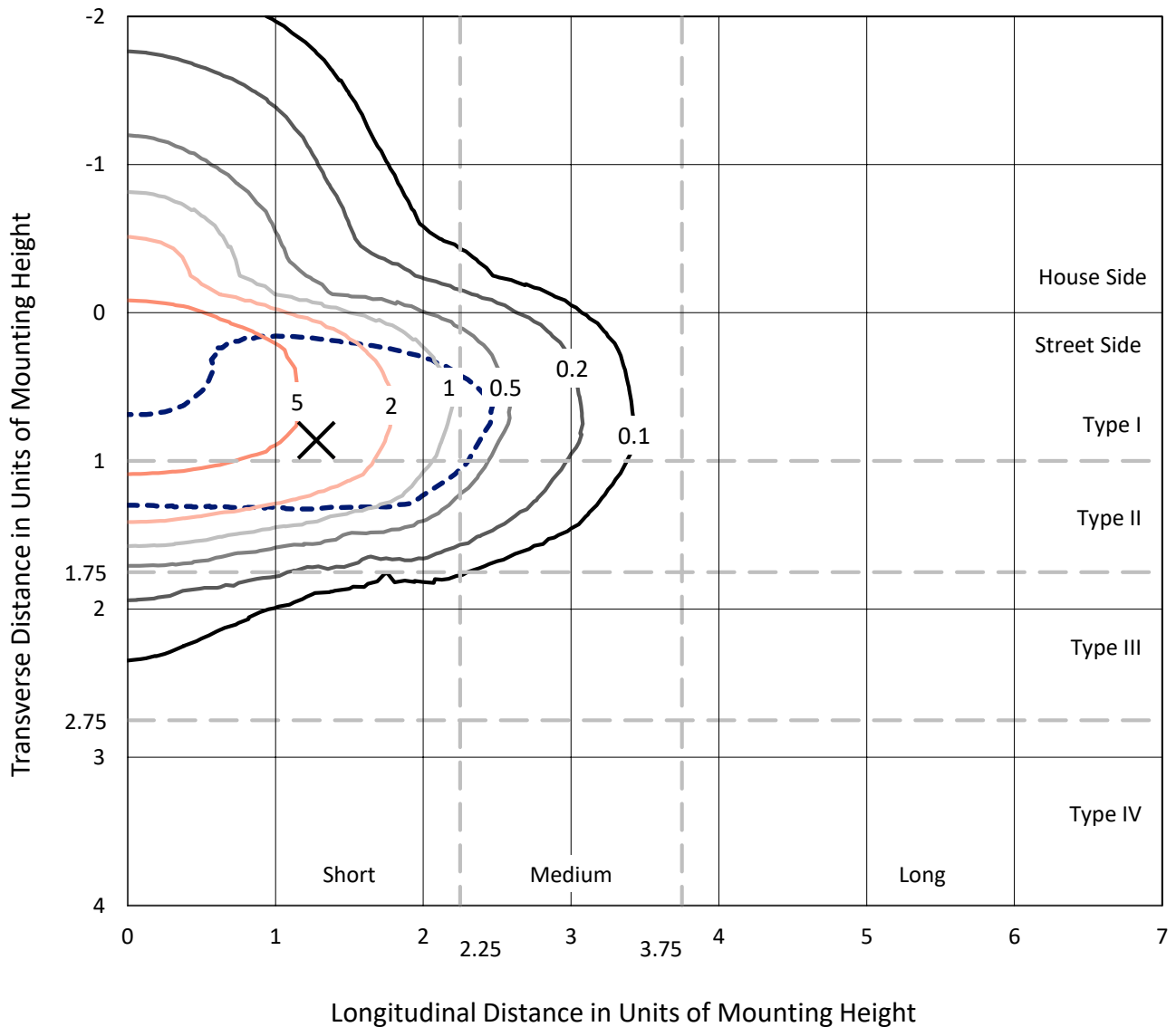
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

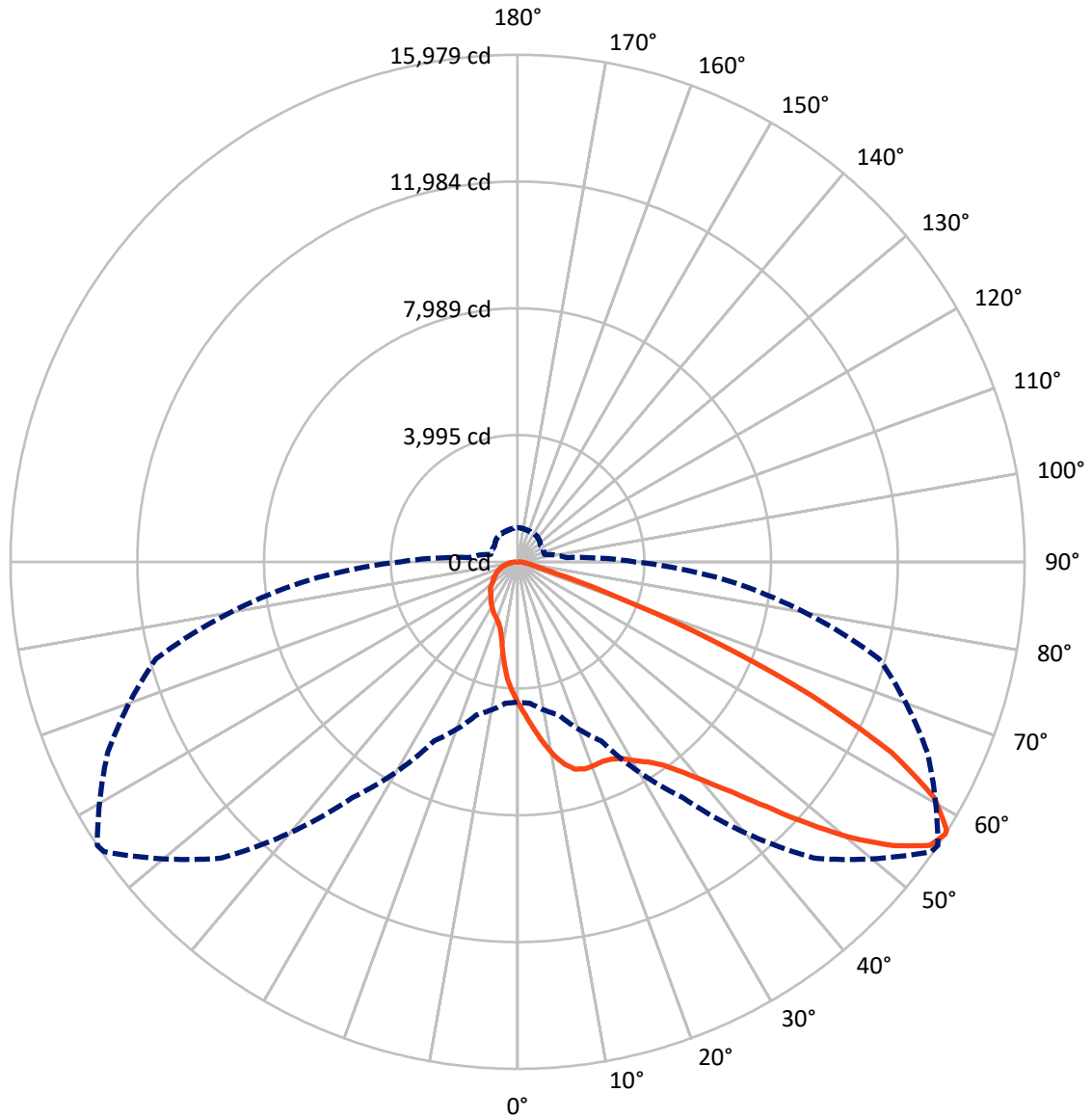
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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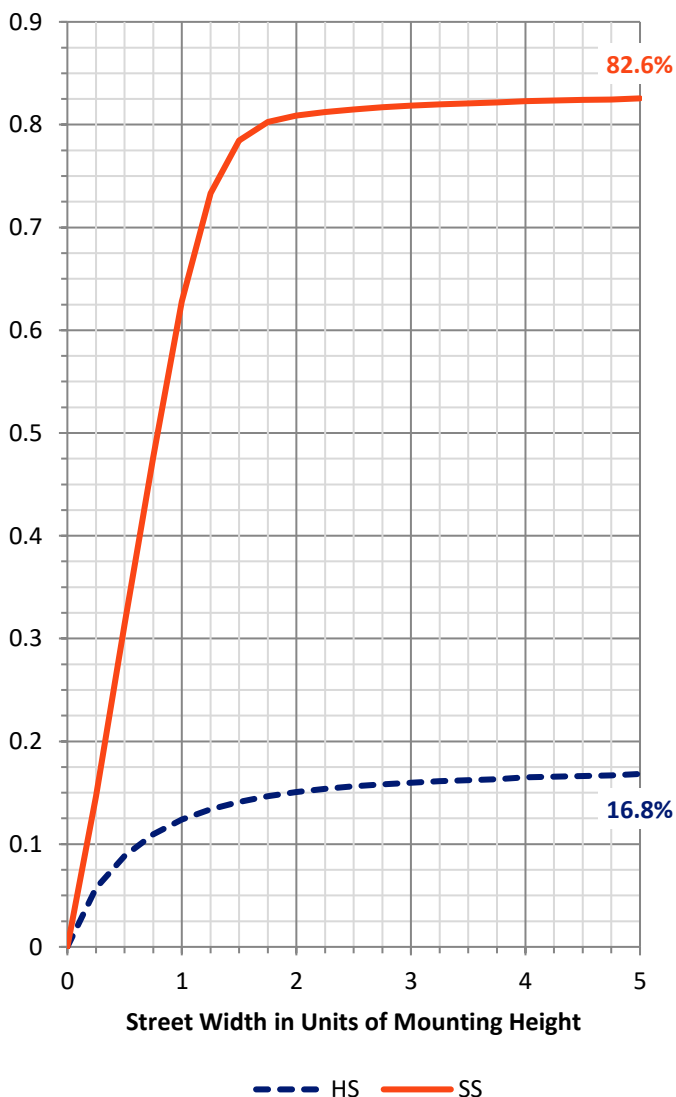
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3477.9	0.0	3477.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	16698.1	0.0	16698.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	20176.0	0.0	20176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.5	2.1
10°-20°	1208.6	6.0
20°-30°	1968.6	9.8
30°-40°	2942.8	14.6
40°-50°	4463.6	22.1
50°-60°	5002.9	24.8
60°-70°	2954.9	14.6
70°-80°	968.1	4.8
80°-90°	239.2	1.2
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°	20176.0	100.0
0°-180°	20176.0	100.0

Coefficient of Utilization

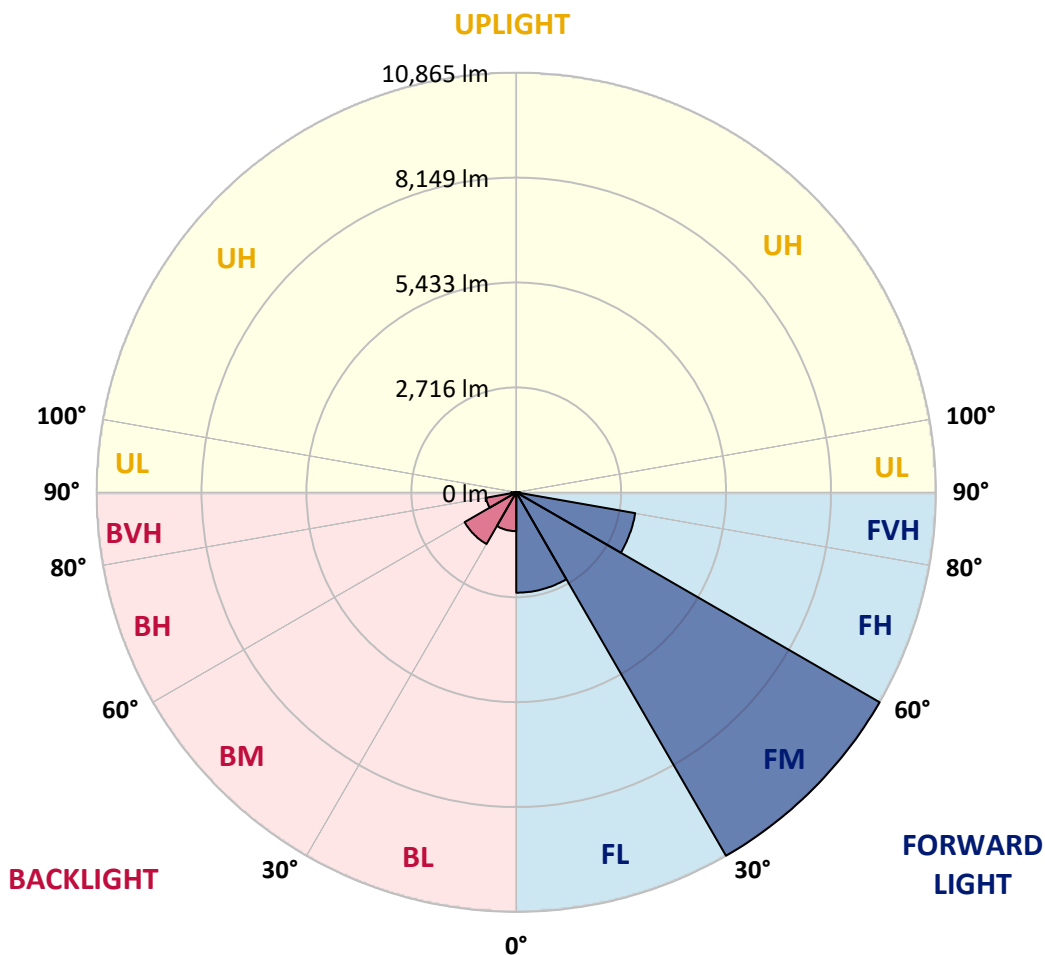


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.0	12.9			
FM (30°-60°)	10865.4	53.9			
FH (60°-80°)	3128.3	15.5			G2/5000
FVH (80°-90°)	105.3	0.5			G2/225
BL (0°-30°)	1005.6	5.0	B3/2500		
BM (30°-60°)	1543.7	7.7	B2/2500		
BH (60°-80°)	794.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	133.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1
2.5°	5138.6	5185.8	5165.0	5092.9	5037.4	4959.0	4871.7	4845.3	4753.1	4649.8	4525.7
5°	5951.9	5928.4	5894.4	5782.1	5663.5	5525.5	5306.4	5271.7	5066.5	4832.8	4586.0
7.5°	6415.1	6413.0	6392.9	6327.1	6218.9	6038.6	5774.4	5733.5	5423.6	5047.8	4665.0
10°	6347.9	6343.0	6376.3	6444.9	6477.5	6440.1	6217.5	6176.6	5795.9	5285.6	4756.6
12.5°	5965.8	5968.6	6022.0	6166.2	6362.4	6598.2	6562.1	6542.0	6182.1	5554.6	4867.5
15°	5668.4	5674.6	5716.9	5842.4	6074.0	6501.8	6771.5	6778.5	6555.9	5851.4	4997.2
17.5°	5538.0	5551.2	5570.6	5658.6	5870.8	6309.7	6821.4	6858.9	6883.2	6159.3	5122.0
20°	5579.6	5592.1	5597.6	5653.8	5827.8	6193.2	6786.8	6854.0	7134.2	6449.1	5246.8
22.5°	5766.1	5773.8	5777.2	5791.8	5927.0	6226.5	6763.9	6834.6	7315.8	6709.1	5341.1
25°	6075.4	6069.8	6047.6	6028.9	6119.7	6358.3	6816.6	6883.8	7463.5	6944.9	5402.8
27.5°	6445.6	6438.7	6395.7	6344.4	6396.4	6563.5	6968.4	7021.8	7595.9	7165.4	5434.0
30°	6890.1	6872.1	6790.9	6729.9	6750.0	6871.4	7218.7	7267.3	7800.5	7415.7	5464.5
32.5°	7403.9	7384.5	7267.3	7166.1	7166.1	7267.3	7476.7	7516.9	7973.8	7698.6	5513.7
35°	8047.3	8023.1	7870.5	7700.6	7652.8	7704.1	7828.2	7856.7	8285.9	8055.0	5603.2
37.5°	8805.9	8773.3	8575.7	8348.3	8243.6	8240.8	8330.2	8388.5	8784.4	8523.0	5755.0
40°	9566.5	9543.6	9371.0	9192.1	8986.9	8921.0	9059.0	9077.0	9436.2	9104.0	5949.2
42.5°	10154.5	10150.3	10118.5	10142.0	9931.9	9798.8	9907.0	9921.5	10232.2	9732.9	6155.8
45°	10465.1	10472.1	10626.7	10969.2	11046.9	10949.8	11003.2	11007.4	11141.9	10367.4	6345.1
47.5°	10216.2	10252.3	10643.3	11409.5	12045.3	12367.8	12279.0	12330.3	12023.9	10912.4	6493.5
50°	9246.2	9290.6	9956.2	11213.3	12511.3	13740.0	13693.5	13681.7	12735.3	11311.8	6573.9
52.5°	8044.6	8079.2	8628.4	10193.3	12169.5	14498.5	14924.9	14863.9	13367.6	11610.6	6589.2
55°	6214.7	6268.8	6795.1	8157.6	10786.9	14208.7	15830.5	15775.7	13943.8	11767.3	6571.1
57°	4418.2	4475.1	4997.9	6225.8	9074.2	13205.4	15920.6	15978.9	14255.1	11793.6	6591.2
57.5°	3942.5	4000.8	4518.7	5711.3	8540.3	12842.7	15843.0	15940.0	14311.3	11789.5	6602.3
60°	1985.1	2007.3	2337.4	3188.1	5398.6	10382.6	14829.9	15080.3	14361.9	11585.6	6650.2
62.5°	1234.2	1218.3	1207.9	1468.6	2626.5	6885.2	12739.4	13221.3	13393.3	11092.0	6534.4
65°	1085.1	1055.3	940.9	920.1	1160.0	3344.2	9593.6	10193.3	11323.5	10314.0	6258.4
67.5°	1019.3	990.1	861.2	783.5	784.2	1325.7	5956.1	6631.5	8821.1	8998.6	5607.3
70°	951.3	925.0	804.3	712.8	667.7	734.3	2740.2	3252.6	5750.2	7073.1	4686.5
72.5°	863.9	845.9	731.5	637.2	589.4	549.8	1049.1	1239.1	3328.9	4750.3	3254.7
75°	772.4	755.8	658.0	567.9	509.6	432.7	590.8	636.5	1691.1	2430.3	1602.4
77.5°	671.9	662.2	585.2	502.0	455.5	358.5	418.1	440.3	725.3	1042.1	803.6
80°	534.6	553.3	511.7	447.2	404.2	287.1	296.1	310.6	422.3	508.9	456.2
82.5°	348.1	380.7	400.8	363.3	332.8	226.0	212.9	219.1	275.3	310.6	198.3
85°	144.9	162.9	263.5	237.8	221.2	165.0	142.8	145.6	170.6	176.8	81.1
87.5°	64.5	68.6	115.8	108.9	93.6	56.9	61.0	66.6	90.8	86.0	31.2
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°	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1	4475.1
2.5°	4479.2	4421.0	4321.1	4210.9	4120.7	4048.6	3975.8	3925.9	3867.7	3836.5	3820.5
5°	4482.7	4368.3	4158.2	3942.5	3749.8	3573.7	3405.9	3276.9	3156.3	3091.1	3073.0
7.5°	4497.2	4325.3	3985.5	3630.5	3288.0	2975.3	2734.0	2582.8	2474.0	2425.4	2411.6
10°	4509.0	4274.7	3772.0	3246.4	2780.4	2463.6	2276.4	2191.8	2154.3	2148.1	2141.8
12.5°	4536.8	4222.7	3547.3	2845.6	2385.9	2166.8	2101.6	2096.1	2106.5	2121.7	2121.7
15°	4580.4	4171.4	3290.8	2501.7	2134.9	2057.9	2071.1	2101.6	2130.1	2153.6	2157.1
17.5°	4612.3	4108.3	3014.8	2226.4	2001.1	2021.9	2069.0	2112.0	2141.1	2164.0	2166.1
20°	4635.2	4010.5	2720.1	2016.3	1924.1	1988.6	2047.5	2085.7	2105.8	2128.7	2132.1
22.5°	4623.4	3879.4	2458.7	1865.9	1861.7	1940.1	1996.2	2042.0	2026.7	2004.6	2019.1
25°	4566.6	3699.2	2189.7	1753.6	1795.8	1874.9	1944.2	1913.7	1862.4	1852.7	1858.3
27.5°	4465.3	3469.0	1940.8	1649.5	1719.6	1814.6	1810.4	1779.9	1761.9	1749.4	1757.0
30°	4356.5	3219.3	1723.0	1558.7	1635.0	1713.3	1697.4	1696.7	1678.7	1658.6	1668.3
32.5°	4249.0	2968.3	1550.4	1483.8	1571.2	1581.6	1616.3	1626.7	1591.3	1549.0	1546.2
35°	4155.4	2731.2	1419.3	1415.9	1494.2	1495.6	1546.2	1531.7	1443.6	1399.9	1399.9
37.5°	4085.4	2494.8	1319.5	1354.9	1393.0	1429.0	1454.7	1394.4	1379.8	1355.6	1354.9
40°	4054.9	2286.8	1257.1	1308.4	1321.6	1367.3	1301.5	1325.0	1332.0	1319.5	1319.5
42.5°	4023.0	2105.8	1203.0	1273.0	1271.0	1264.7	1231.4	1261.9	1289.7	1290.4	1288.3
45°	3991.1	1949.8	1155.2	1197.5	1226.6	1159.3	1165.6	1198.2	1237.0	1250.9	1250.9
47.5°	3955.7	1826.4	1111.5	1117.7	1162.8	1117.7	1112.9	1137.8	1183.6	1205.8	1210.6
50°	3878.1	1715.4	1061.6	1047.7	1060.2	1075.4	1079.6	1091.4	1142.0	1177.4	1185.7
52.5°	3770.6	1616.3	997.8	983.2	983.2	1040.8	1060.2	1063.6	1106.6	1148.9	1157.2
55°	3681.1	1553.2	931.9	929.1	926.4	1004.0	1037.3	1042.8	1072.7	1105.9	1110.1
57°	3687.4	1548.3	881.3	884.1	883.4	966.6	1015.8	1027.6	1042.8	1071.3	1076.1
57.5°	3690.8	1551.8	870.2	871.6	870.9	956.2	1009.6	1022.7	1034.5	1064.3	1069.2
60°	3742.8	1560.8	825.1	809.9	813.3	900.7	974.2	990.8	998.5	1038.0	1044.2
62.5°	3665.9	1520.6	789.1	752.3	752.3	842.5	925.0	951.3	963.1	1016.5	1026.9
65°	3442.6	1407.6	746.8	687.1	694.1	784.2	866.0	909.0	927.0	993.6	1004.7
67.5°	3098.0	1276.5	701.7	628.9	635.8	723.2	805.0	851.5	879.9	968.6	977.7
70°	2649.4	1116.3	640.7	567.2	575.5	656.6	732.9	785.6	827.9	945.1	947.8
72.5°	1953.2	915.3	555.4	499.2	508.2	579.0	660.1	721.1	778.0	886.1	884.7
75°	1161.4	715.6	461.1	430.6	436.8	502.7	594.2	668.4	753.7	863.3	876.4
77.5°	704.5	538.8	375.8	360.6	368.2	435.4	547.1	626.1	743.3	814.0	809.9
80°	425.7	384.8	300.2	290.5	298.2	372.3	506.2	594.2	649.7	695.5	695.5
82.5°	222.6	235.1	220.5	212.9	223.3	302.3	460.4	518.6	574.1	493.0	460.4
85°	90.8	122.7	133.8	133.1	139.4	209.4	397.3	443.8	370.3	351.5	359.9
87.5°	30.5	52.0	65.2	56.2	58.9	131.7	275.3	214.3	254.5	177.5	168.5
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)