

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: P317427

Luminaire Tested: **GAN-SA3A-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14822 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

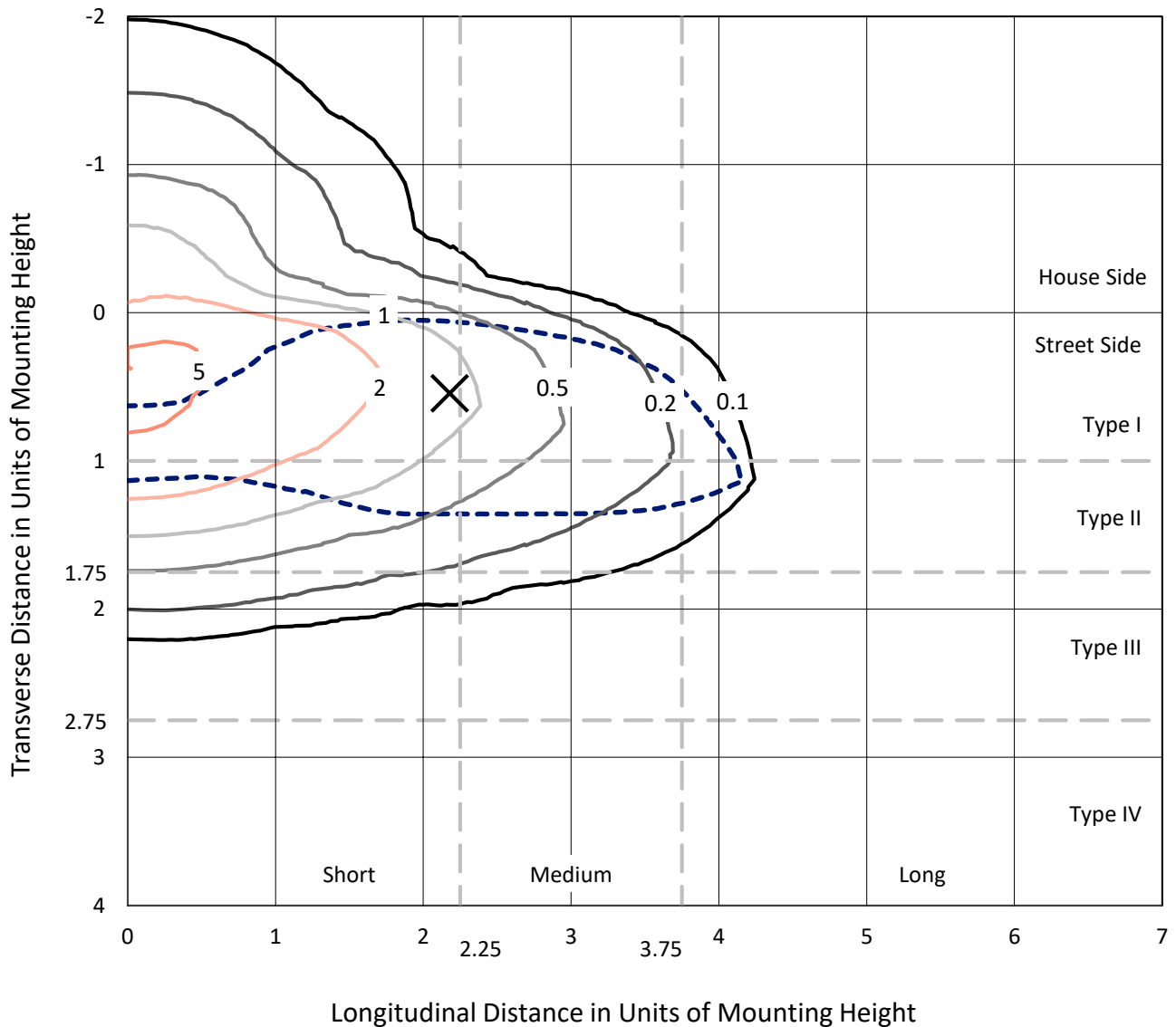
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

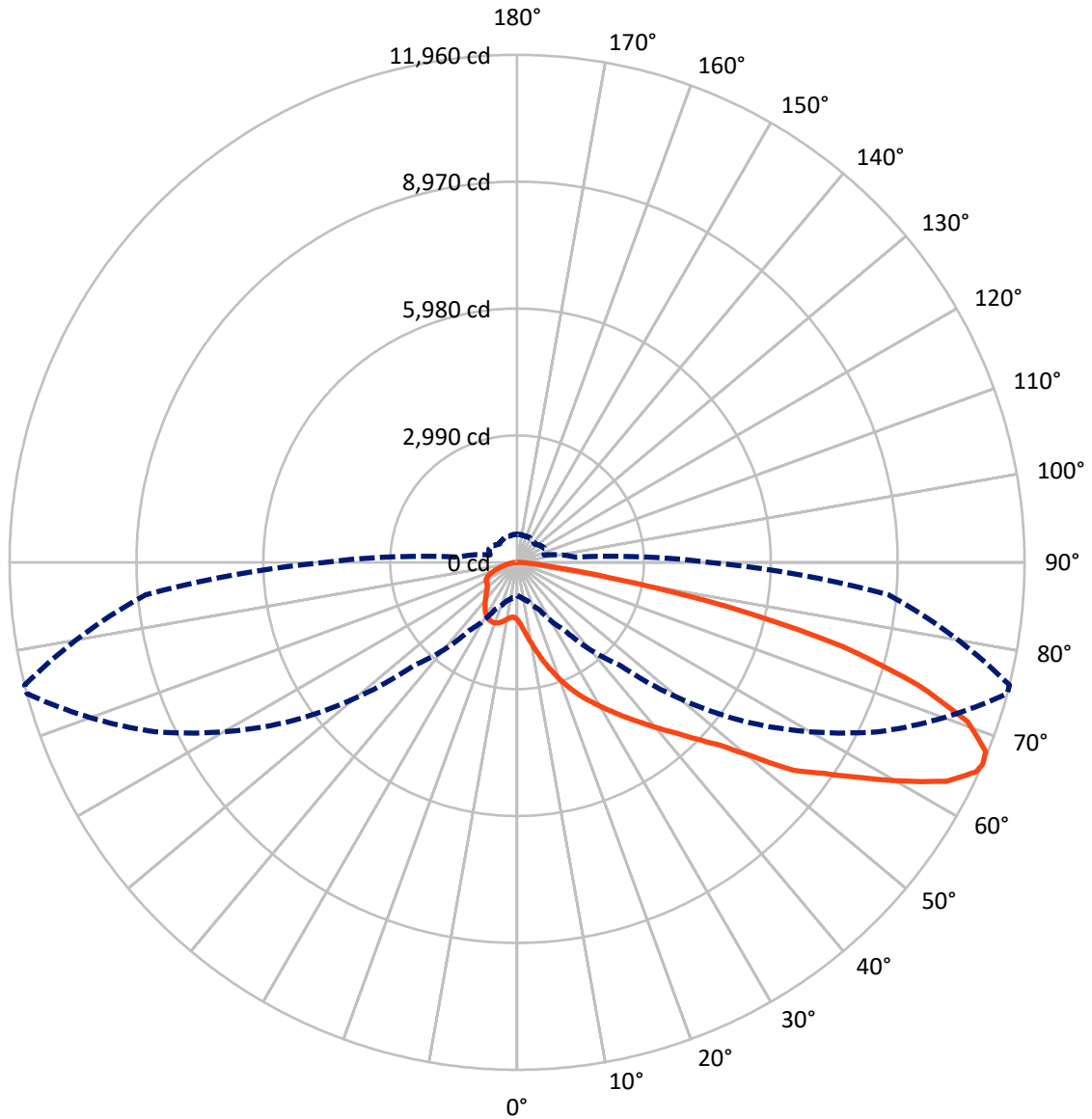
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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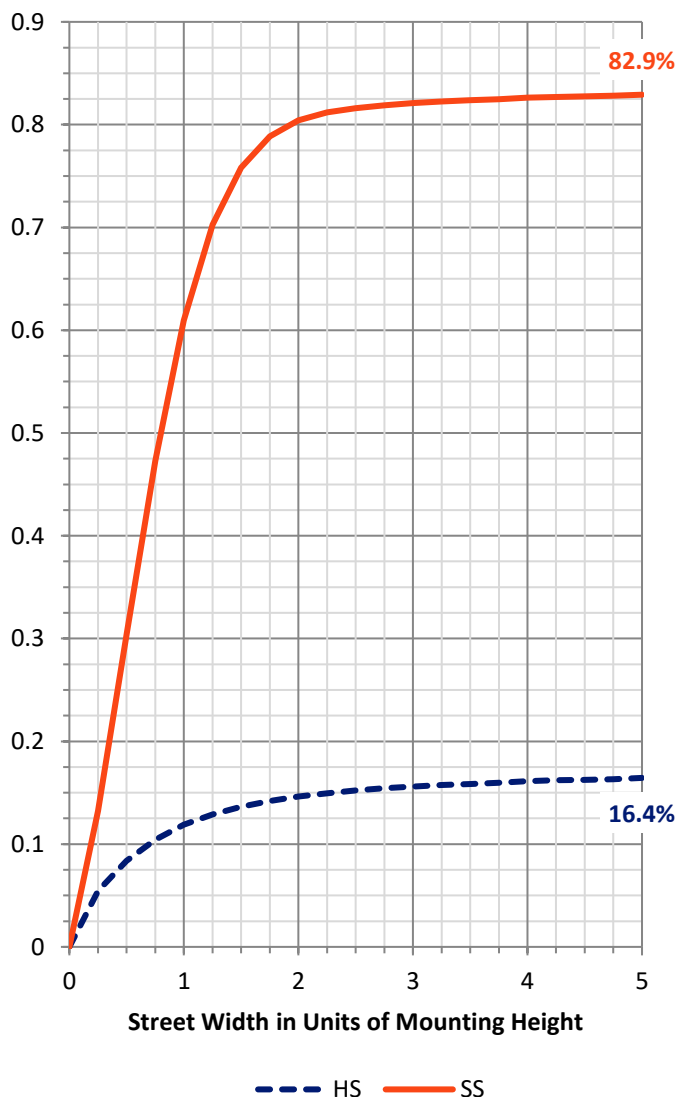
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2494.0	0.0	2494.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	12328.0	0.0	12328.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	14822.0	0.0	14822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.1
10°-20°	646.4	4.4
20°-30°	1256.1	8.5
30°-40°	2050.2	13.8
40°-50°	2801.1	18.9
50°-60°	3262.7	22.0
60°-70°	2925.0	19.7
70°-80°	1478.2	10.0
80°-90°	238.7	1.6
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°	14822.0	100.0
0°-180°	14822.0	100.0

Coefficient of Utilization



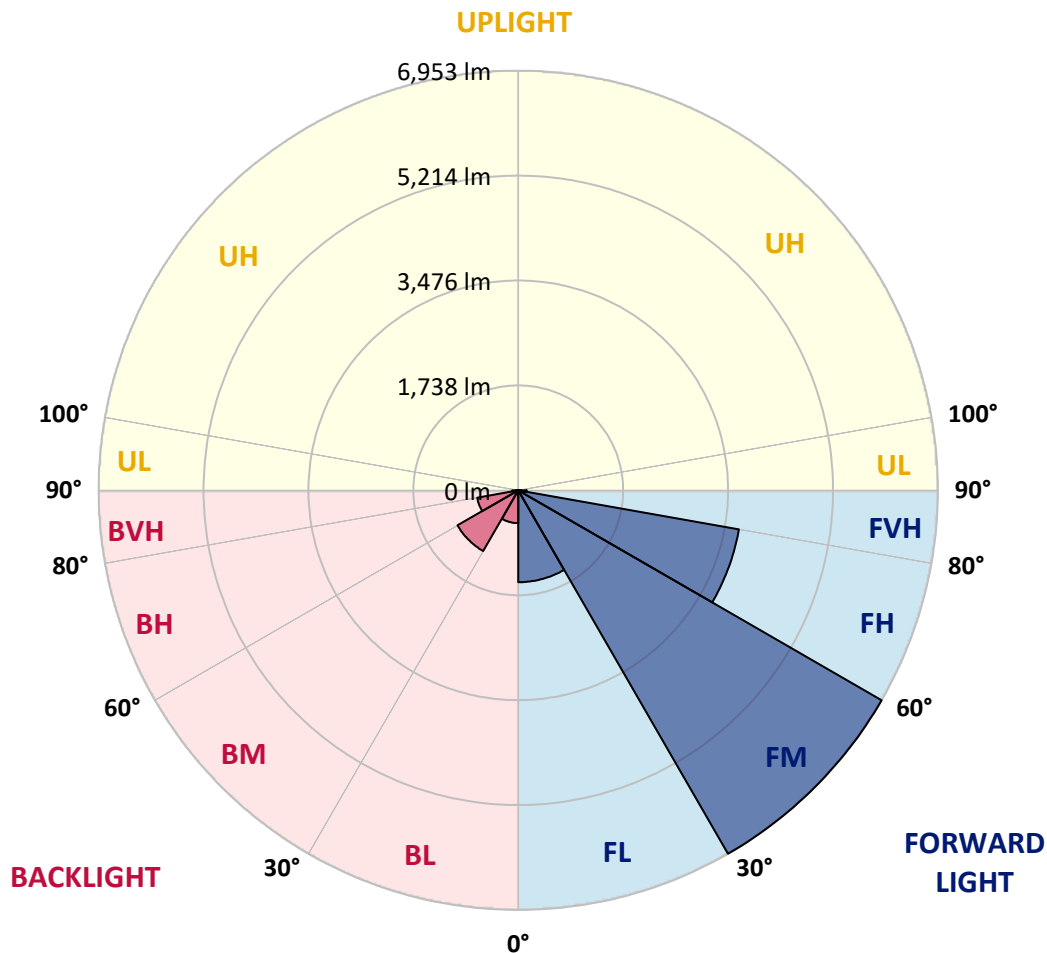
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.2	10.3			
FM (30°-60°)	6952.5	46.9			
FH (60°-80°)	3712.3	25.0			G2/5000
FVH (80°-90°)	141.0	1.0			G2/225
BL (0°-30°)	544.0	3.7	B2/1000		
BM (30°-60°)	1161.4	7.8	B2/2500		
BH (60°-80°)	691.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	97.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1796.9	1769.7	1767.2	1727.5	1718.4	1642.4	1586.6	1528.2	1461.8	1448.7	1396.4
5°	2308.1	2305.6	2270.9	2206.0	2155.2	2025.3	1897.0	1761.2	1612.2	1588.1	1470.3
7.5°	2768.1	2764.0	2737.4	2667.4	2593.9	2434.4	2251.3	2043.0	1801.4	1765.7	1570.5
10°	3117.3	3115.8	3106.7	3055.4	2993.0	2840.0	2637.7	2353.4	2021.3	1972.5	1695.8
12.5°	3387.0	3390.0	3396.0	3377.9	3348.2	3217.9	3010.6	2682.5	2255.8	2207.5	1835.1
15°	3569.6	3578.7	3609.9	3635.6	3651.2	3571.1	3370.4	3019.1	2518.5	2460.6	1989.6
17.5°	3661.7	3671.8	3725.6	3803.1	3874.6	3866.5	3707.0	3340.2	2770.6	2714.7	2155.7
20°	3741.2	3748.8	3809.2	3902.2	4028.5	4084.4	3994.8	3649.1	3046.8	2980.4	2331.8
22.5°	3971.7	3981.2	3999.4	4052.2	4163.9	4266.6	4223.3	3941.5	3299.9	3238.0	2498.8
25°	4416.5	4428.1	4388.8	4344.0	4365.2	4436.6	4444.7	4208.2	3556.6	3486.6	2678.5
27.5°	4952.4	4969.0	4902.1	4786.9	4686.2	4658.5	4649.0	4426.6	3801.6	3720.6	2856.1
30°	5477.2	5505.9	5418.9	5269.4	5084.7	4954.9	4858.8	4640.4	4043.1	3965.6	3023.7
32.5°	5990.0	5978.4	5852.1	5706.2	5489.8	5327.3	5094.8	4869.9	4314.9	4225.8	3190.2
35°	6341.2	6345.2	6228.0	6054.9	5848.6	5723.8	5410.8	5117.4	4592.1	4510.1	3379.4
37.5°	6640.1	6621.5	6488.6	6327.1	6149.5	6096.2	5780.7	5390.2	4892.5	4803.0	3580.7
40°	6739.7	6718.1	6631.0	6514.8	6372.4	6367.9	6188.7	5699.1	5232.2	5143.6	3807.6
42.5°	6679.4	6651.7	6616.0	6584.2	6540.5	6560.6	6572.2	6061.4	5605.5	5506.4	4070.3
45°	6456.4	6414.7	6439.8	6508.8	6603.9	6717.6	6918.4	6462.5	6023.7	5940.7	4378.8
47.5°	6113.8	6076.0	6154.5	6302.0	6560.6	6848.4	7245.9	6905.3	6522.9	6440.3	4818.1
50°	5631.7	5642.8	5755.0	6023.2	6414.2	6908.8	7649.5	7491.5	7248.5	7171.5	5417.4
52.5°	4840.7	4842.7	5158.7	5599.0	6154.5	6877.6	7873.4	8240.8	8239.2	8146.2	5988.0
55°	4106.0	4150.8	4400.9	4986.1	5733.9	6752.8	8029.9	8605.1	8889.9	8780.7	6519.8
57.5°	3388.5	3414.7	3651.7	4239.4	5133.6	6420.2	8190.4	9042.3	9639.6	9570.7	7181.0
60°	2572.3	2612.6	2857.6	3400.6	4365.7	5830.0	8205.5	9498.7	10535.8	10466.4	7919.2
62.5°	1669.6	1739.0	1968.5	2477.2	3436.8	4981.1	7855.3	9797.1	11385.2	11360.5	8574.4
65°	959.6	1011.9	1171.4	1563.9	2371.0	3915.3	7022.5	9682.4	11908.0	11893.9	8819.4
66°	784.0	816.7	939.0	1222.3	1956.4	3438.3	6538.5	9440.4	11959.8	11960.3	8791.2
67.5°	627.0	641.6	696.4	875.0	1443.7	2725.3	5673.5	8906.5	11895.4	11913.0	8609.6
70°	518.8	526.3	543.4	586.7	788.0	1643.4	4027.0	7519.2	11248.8	11262.4	7900.6
72.5°	465.5	470.0	476.5	482.6	556.0	918.3	2459.6	6015.1	9862.5	9880.1	6820.2
75°	421.7	424.2	423.2	423.7	466.5	585.2	1271.1	4491.0	7974.6	7939.3	5224.6
77.5°	370.3	372.9	367.8	368.8	412.6	449.9	632.5	3143.9	5381.6	5133.0	2943.7
80°	313.0	315.0	313.0	316.5	359.3	339.7	367.8	1768.7	2379.6	2250.8	1046.6
82.5°	236.5	245.1	251.1	265.2	295.9	241.5	246.1	688.9	724.6	689.9	321.0
85°	103.7	126.3	189.2	202.8	222.4	144.9	161.5	280.8	294.9	285.8	116.7
87.5°	27.2	29.7	93.6	117.7	123.3	65.4	84.0	127.8	134.9	127.8	38.7
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°	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1368.7	1344.0	1299.7	1260.5	1230.8	1210.7	1190.5	1180.5	1174.4	1168.4	1169.4
5°	1412.5	1362.6	1286.7	1232.8	1202.6	1183.5	1173.4	1169.4	1166.9	1160.9	1160.9
7.5°	1478.4	1407.9	1303.3	1247.9	1224.3	1209.7	1203.6	1201.6	1198.6	1191.6	1192.6
10°	1561.4	1462.8	1338.0	1284.1	1262.5	1246.4	1237.8	1234.8	1229.3	1221.2	1222.3
12.5°	1659.0	1530.7	1383.8	1327.4	1301.3	1279.6	1265.5	1257.0	1247.4	1236.8	1237.3
15°	1765.7	1604.7	1433.1	1366.2	1330.4	1300.2	1277.6	1263.0	1247.9	1234.8	1234.3
17.5°	1873.9	1676.1	1470.8	1387.3	1339.0	1299.2	1268.5	1245.9	1227.3	1211.2	1209.7
20°	1990.6	1740.5	1492.0	1385.3	1322.9	1275.6	1234.8	1206.7	1186.0	1169.9	1167.4
22.5°	2109.4	1800.9	1495.5	1364.7	1287.2	1229.3	1186.5	1155.3	1134.2	1117.6	1111.5
25°	2218.1	1847.7	1480.9	1324.9	1237.3	1175.0	1133.2	1101.5	1084.4	1064.8	1058.7
27.5°	2317.2	1880.4	1451.7	1274.1	1181.5	1120.1	1080.9	1053.7	1035.1	1020.0	1014.9
30°	2406.3	1898.0	1403.9	1213.7	1124.1	1068.3	1035.1	1016.4	1000.3	981.2	977.7
32.5°	2490.8	1898.0	1342.5	1147.8	1067.3	1022.5	1002.9	991.3	973.2	954.6	949.5
35°	2575.3	1886.5	1270.1	1078.8	1014.9	989.8	988.8	975.2	947.5	922.3	915.8
37.5°	2664.4	1862.8	1188.5	1014.4	972.2	975.2	983.7	953.5	914.3	878.6	869.0
40°	2765.0	1830.1	1104.0	958.6	936.4	968.6	970.2	922.3	845.9	813.2	804.6
42.5°	2883.3	1797.4	1025.5	909.3	908.3	949.0	944.5	854.9	809.1	792.5	788.0
45°	3038.8	1778.8	951.0	862.5	886.1	917.3	900.7	817.7	798.6	789.0	785.0
47.5°	3283.8	1788.3	882.6	825.2	864.0	885.6	819.2	802.6	789.0	777.4	773.4
50°	3590.8	1782.8	827.2	799.6	838.8	852.4	782.5	783.0	775.9	762.8	756.8
52.5°	3821.7	1739.5	791.5	785.0	816.7	793.5	759.3	763.8	760.3	741.2	734.7
55°	4044.6	1702.3	773.4	779.4	800.6	720.1	732.1	743.2	739.7	721.1	718.1
57.5°	4321.9	1695.2	762.3	781.0	787.0	683.3	706.0	720.6	718.1	710.0	708.5
60°	4661.6	1697.3	752.3	783.5	771.9	656.2	681.3	699.9	701.4	699.9	698.9
62.5°	4848.2	1642.4	727.1	776.4	745.2	632.5	655.7	682.8	683.3	686.4	685.8
65°	4689.7	1478.4	680.3	751.8	700.4	612.9	633.5	663.2	655.7	669.2	669.2
66°	4535.8	1383.8	657.2	735.7	681.3	605.3	626.5	653.1	643.6	662.2	662.2
67.5°	4221.3	1224.3	615.4	701.4	654.1	594.8	618.4	636.5	623.5	651.1	649.1
70°	3646.6	947.0	531.4	624.0	609.4	579.2	607.4	603.3	584.2	626.5	618.4
72.5°	3074.5	719.6	426.7	522.3	541.4	559.5	591.8	561.1	536.9	566.6	549.0
75°	2385.6	540.9	337.1	406.1	457.4	528.9	573.1	512.2	477.5	474.5	464.9
77.5°	1289.7	371.4	267.2	310.0	363.3	490.6	560.6	459.9	407.6	395.5	388.0
80°	510.7	241.5	194.2	235.0	254.1	435.3	530.4	399.0	336.1	324.1	312.5
82.5°	210.8	142.9	125.3	157.5	165.5	372.4	476.0	327.1	259.6	359.3	381.4
85°	90.6	78.5	74.5	81.5	93.6	261.2	378.9	249.6	280.3	250.1	198.8
87.5°	27.2	33.2	31.7	31.2	34.2	62.4	201.8	138.9	205.8	78.0	58.4
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)