

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: P317397

Luminaire Tested: **GAN-SA3B-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317397
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-SA3B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16553 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

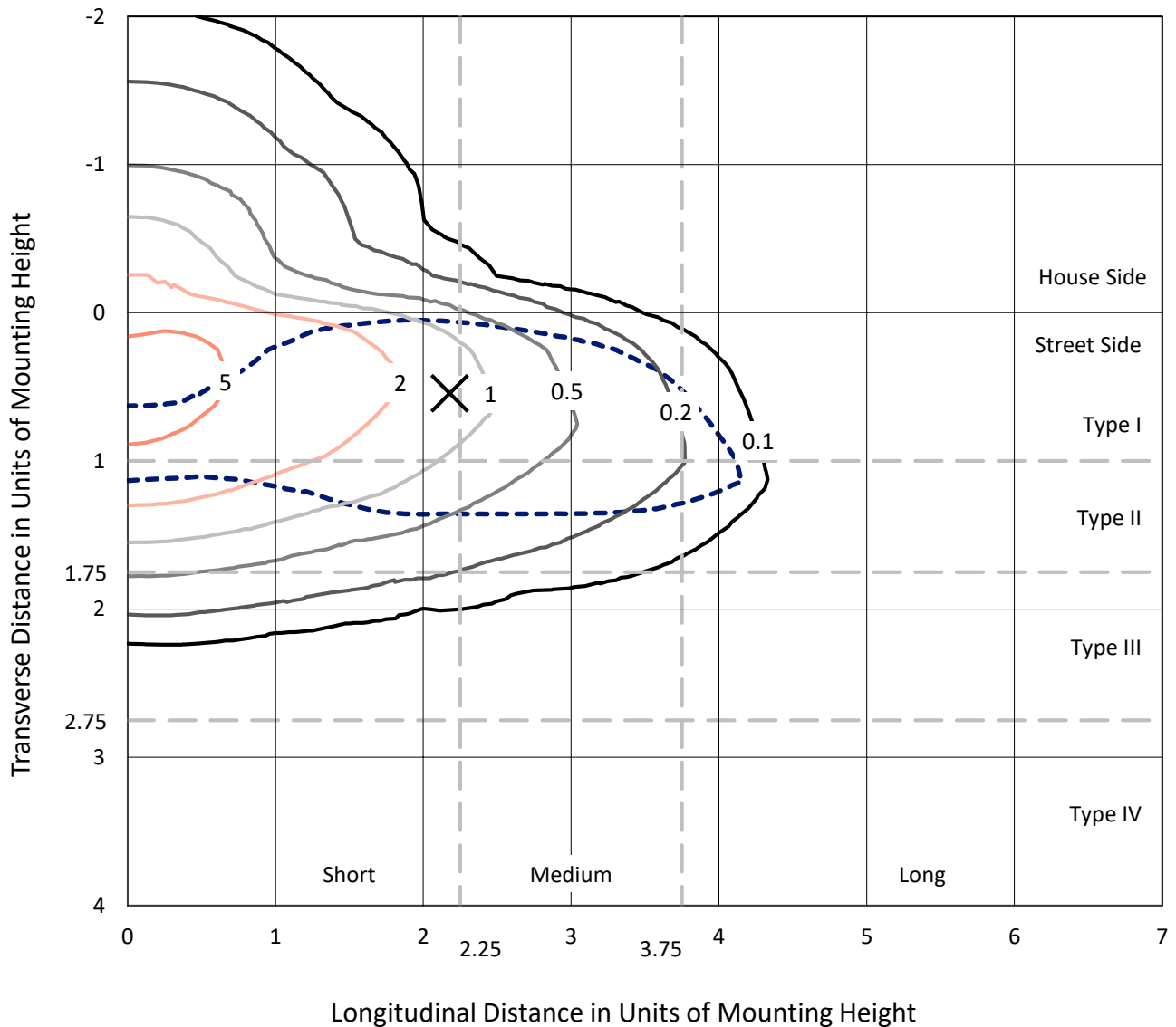
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

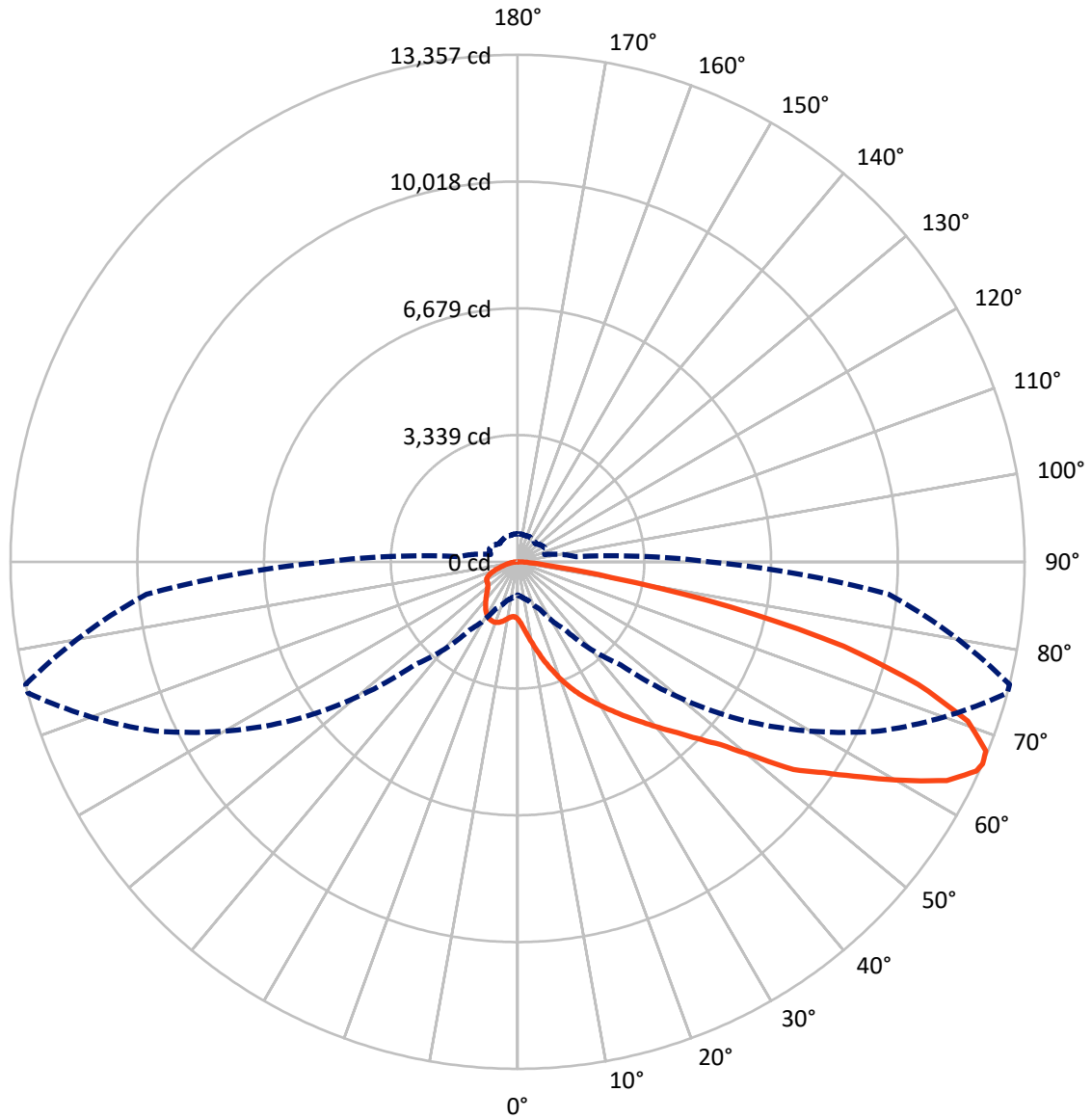
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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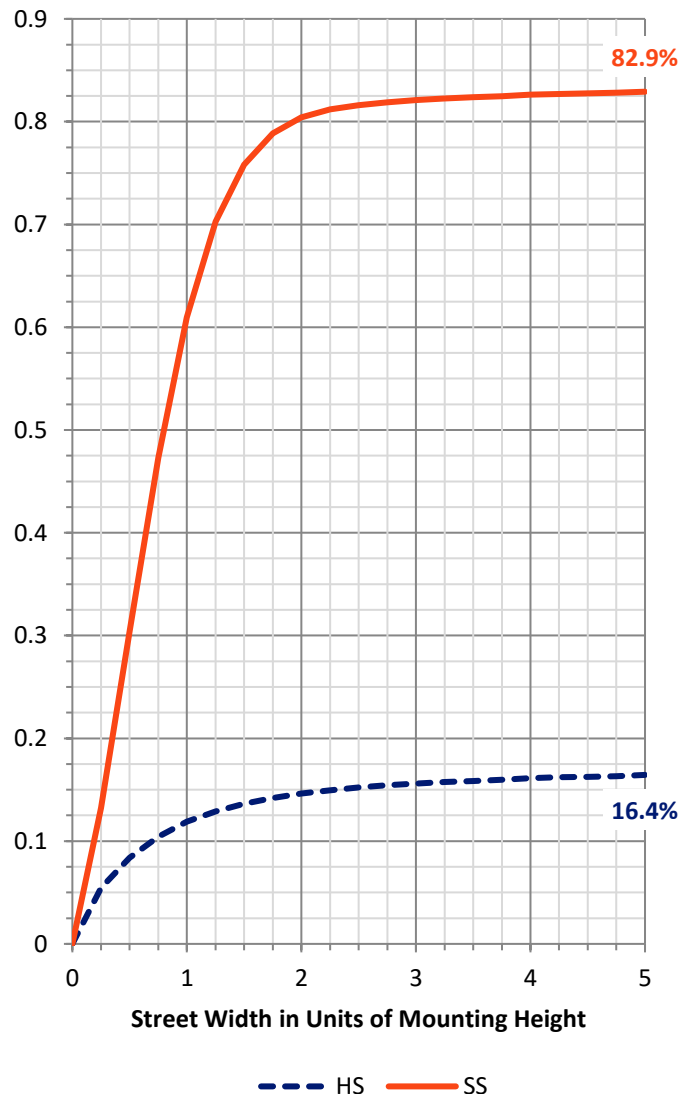
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2785.3	0.0	2785.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	13767.7	0.0	13767.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	16553.0	0.0	16553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.1
10°-20°	721.9	4.4
20°-30°	1402.8	8.5
30°-40°	2289.6	13.8
40°-50°	3128.2	18.9
50°-60°	3643.7	22.0
60°-70°	3266.6	19.7
70°-80°	1650.8	10.0
80°-90°	266.6	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°	16553.0	100.0
0°-180°	16553.0	100.0

Coefficient of Utilization



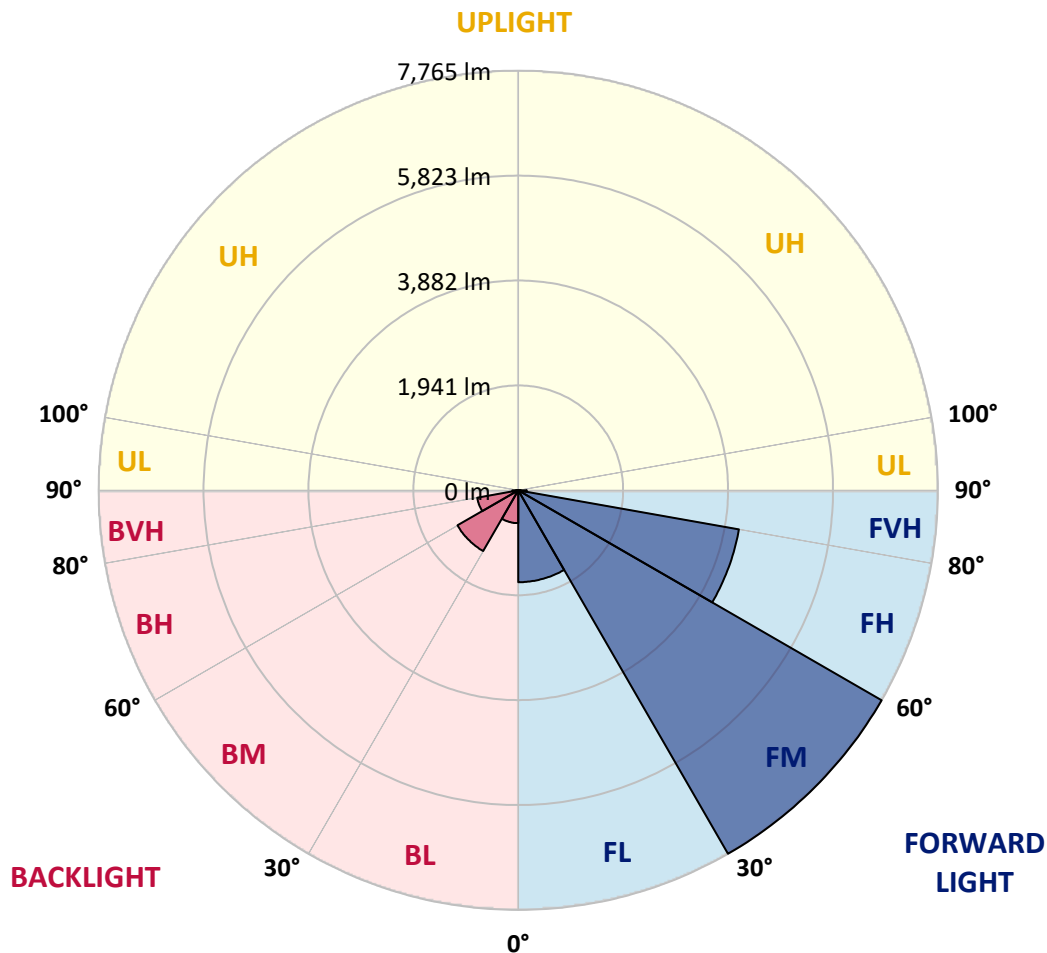
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.9	10.3			
FM (30°-60°)	7764.5	46.9			
FH (60°-80°)	4145.8	25.0			G2/5000
FVH (80°-90°)	157.4	1.0			G2/225
BL (0°-30°)	607.5	3.7	B2/1000		
BM (30°-60°)	1297.0	7.8	B2/2500		
BH (60°-80°)	771.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	109.1	0.7			G2/225
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°	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7
2.5°	2006.7	1976.4	1973.6	1929.2	1919.1	1834.2	1771.8	1706.7	1632.5	1617.9	1559.4
5°	2577.7	2574.9	2536.1	2463.6	2406.9	2261.9	2118.6	1966.8	1800.5	1773.5	1642.0
7.5°	3091.3	3086.8	3057.0	2978.9	2896.9	2718.7	2514.2	2281.5	2011.8	1971.9	1753.9
10°	3481.3	3479.6	3469.5	3412.2	3342.5	3171.7	2945.8	2628.3	2257.4	2202.9	1893.8
12.5°	3782.5	3785.9	3792.6	3772.4	3739.3	3593.7	3362.2	2995.8	2519.2	2465.3	2049.5
15°	3986.5	3996.6	4031.5	4060.1	4077.6	3988.2	3764.0	3371.7	2812.6	2748.0	2222.0
17.5°	4089.4	4100.6	4160.7	4247.3	4327.1	4318.1	4139.9	3730.3	3094.1	3031.8	2407.4
20°	4178.1	4186.6	4254.0	4358.0	4499.0	4561.4	4461.4	4075.3	3402.6	3328.5	2604.1
22.5°	4435.5	4446.2	4466.4	4525.4	4650.2	4764.8	4716.5	4401.8	3685.3	3616.2	2790.7
25°	4932.3	4945.2	4901.4	4851.4	4875.0	4954.8	4963.8	4699.6	3971.9	3893.8	2991.3
27.5°	5530.8	5549.3	5474.6	5345.9	5233.5	5202.6	5191.9	4943.5	4245.6	4155.1	3189.7
30°	6116.9	6148.9	6051.7	5884.8	5678.6	5533.6	5426.2	5182.4	4515.3	4428.8	3376.8
32.5°	6689.5	6676.6	6535.6	6372.6	6130.9	5949.4	5689.8	5438.6	4818.8	4719.3	3562.8
35°	7081.8	7086.3	6955.3	6762.0	6531.6	6392.3	6042.7	5715.1	5128.4	5036.8	3774.1
37.5°	7415.6	7394.8	7246.4	7066.0	6867.7	6808.1	6455.8	6019.7	5463.9	5363.9	3998.9
40°	7526.8	7502.7	7405.5	7275.6	7116.6	7111.6	6911.5	6364.7	5843.2	5744.3	4252.3
42.5°	7459.4	7428.5	7388.6	7353.2	7304.3	7326.8	7339.7	6769.3	6260.2	6149.5	4545.7
45°	7210.5	7163.8	7191.9	7268.9	7375.1	7502.1	7726.3	7217.2	6727.2	6634.5	4890.1
47.5°	6827.8	6785.6	6873.3	7037.9	7326.8	7648.2	8092.2	7711.7	7284.6	7192.5	5380.7
50°	6289.4	6301.8	6427.1	6726.6	7163.3	7715.7	8542.9	8366.4	8095.0	8009.0	6050.0
52.5°	5406.0	5408.3	5761.2	6252.9	6873.3	7680.8	8792.9	9203.2	9201.5	9097.5	6687.3
55°	4585.6	4635.6	4914.9	5568.4	6403.5	7541.5	8967.7	9610.0	9928.1	9806.1	7281.3
57.5°	3784.2	3813.4	4078.1	4734.5	5733.1	7170.0	9147.0	10098.4	10765.4	10688.4	8019.7
60°	2872.7	2917.7	3191.3	3797.7	4875.5	6510.8	9163.8	10608.0	11766.2	11688.7	8844.1
62.5°	1864.6	1942.1	2198.4	2766.5	3838.2	5562.8	8772.7	10941.3	12714.8	12687.3	9575.7
65°	1071.7	1130.1	1308.2	1746.6	2647.9	4372.6	7842.7	10813.2	13298.7	13283.0	9849.4
66°	875.5	912.1	1048.6	1365.0	2184.9	3839.8	7302.1	10542.9	13356.6	13357.1	9817.9
67.5°	700.2	716.5	777.7	977.2	1612.3	3043.6	6336.1	9946.6	13284.6	13304.3	9615.1
70°	579.4	587.8	606.9	655.2	880.0	1835.3	4497.3	8397.3	12562.5	12577.7	8823.3
72.5°	519.8	524.9	532.2	538.9	621.0	1025.6	2746.8	6717.6	11014.3	11034.0	7616.8
75°	470.9	473.7	472.6	473.2	520.9	653.6	1419.5	5015.5	8905.9	8866.5	5834.8
77.5°	413.6	416.4	410.8	411.9	460.8	502.4	706.4	3511.1	6010.1	5732.5	3287.4
80°	349.5	351.8	349.5	353.5	401.2	379.3	410.8	1975.3	2657.5	2513.6	1168.9
82.5°	264.1	273.7	280.4	296.2	330.4	269.7	274.8	769.3	809.2	770.4	358.5
85°	115.8	141.1	211.3	226.5	248.4	161.8	180.4	313.6	329.3	319.2	130.4
87.5°	30.3	33.2	104.5	131.5	137.7	73.1	93.8	142.7	150.6	142.7	43.3
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°	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7
2.5°	1528.5	1501.0	1451.5	1407.7	1374.5	1352.1	1329.6	1318.3	1311.6	1304.9	1306.0
5°	1577.4	1521.8	1436.9	1376.8	1343.1	1321.7	1310.5	1306.0	1303.2	1296.4	1296.4
7.5°	1651.0	1572.4	1455.5	1393.7	1367.2	1350.9	1344.2	1342.0	1338.6	1330.7	1331.8
10°	1743.8	1633.6	1494.2	1434.1	1409.9	1392.0	1382.4	1379.0	1372.9	1363.9	1365.0
12.5°	1852.8	1709.5	1545.4	1482.4	1453.2	1429.1	1413.3	1403.8	1393.1	1381.3	1381.9
15°	1971.9	1792.1	1600.5	1525.7	1485.8	1452.1	1426.8	1410.5	1393.7	1379.0	1378.5
17.5°	2092.7	1871.9	1642.6	1549.3	1495.4	1451.0	1416.7	1391.4	1370.6	1352.6	1350.9
20°	2223.1	1943.8	1666.2	1547.1	1477.4	1424.6	1379.0	1347.6	1324.5	1306.5	1303.7
22.5°	2355.7	2011.2	1670.1	1524.0	1437.5	1372.9	1325.1	1290.3	1266.6	1248.1	1241.4
25°	2477.1	2063.5	1653.8	1479.6	1381.9	1312.2	1265.5	1230.1	1211.0	1189.1	1182.4
27.5°	2587.8	2100.0	1621.2	1422.9	1319.5	1250.9	1207.1	1176.7	1155.9	1139.1	1133.5
30°	2687.3	2119.7	1567.9	1355.4	1255.4	1193.0	1155.9	1135.2	1117.2	1095.8	1091.9
32.5°	2781.7	2119.7	1499.3	1281.8	1191.9	1141.9	1120.0	1107.1	1086.8	1066.0	1060.4
35°	2876.1	2106.8	1418.4	1204.8	1133.5	1105.4	1104.2	1089.1	1058.2	1030.1	1022.8
37.5°	2975.6	2080.4	1327.3	1132.9	1085.7	1089.1	1098.6	1064.9	1021.1	981.2	970.5
40°	3087.9	2043.8	1232.9	1070.5	1045.8	1081.8	1083.5	1030.1	944.6	908.1	898.6
42.5°	3220.0	2007.3	1145.3	1015.5	1014.3	1059.8	1054.8	954.8	903.6	885.1	880.0
45°	3393.7	1986.5	1062.1	963.2	989.6	1024.4	1005.9	913.2	891.8	881.1	876.7
47.5°	3667.3	1997.2	985.7	921.6	964.9	989.0	914.9	896.3	881.1	868.2	863.7
50°	4010.1	1991.0	923.9	892.9	936.8	952.0	873.8	874.4	866.5	851.9	845.2
52.5°	4268.1	1942.7	884.0	876.7	912.1	886.2	848.0	853.0	849.1	827.8	820.5
55°	4517.0	1901.1	863.7	870.5	894.1	804.2	817.6	830.0	826.1	805.3	801.9
57.5°	4826.6	1893.2	851.4	872.2	878.9	763.1	788.4	804.7	801.9	792.9	791.2
60°	5206.0	1895.5	840.1	875.0	862.0	732.8	760.9	781.7	783.4	781.7	780.6
62.5°	5414.4	1834.2	812.0	867.1	832.3	706.4	732.2	762.6	763.1	766.5	765.9
65°	5237.4	1651.0	759.8	839.6	782.2	684.5	707.5	740.7	732.2	747.4	747.4
66°	5065.5	1545.4	733.9	821.6	760.9	676.0	699.6	729.4	718.7	739.5	739.5
67.5°	4714.3	1367.2	687.3	783.4	730.5	664.2	690.6	710.9	696.3	727.2	724.9
70°	4072.5	1057.6	593.4	696.8	680.5	646.8	678.3	673.8	652.4	699.6	690.6
72.5°	3433.6	803.6	476.5	583.3	604.7	624.9	660.9	626.6	599.6	632.8	613.1
75°	2664.2	604.1	376.5	453.5	510.8	590.6	640.1	572.1	533.3	529.9	519.2
77.5°	1440.3	414.7	298.4	346.2	405.7	547.9	626.0	513.6	455.2	441.7	433.3
80°	570.4	269.7	216.9	262.4	283.8	486.1	592.3	445.6	375.4	361.9	349.0
82.5°	235.5	159.6	139.9	175.9	184.9	415.8	531.6	365.3	290.0	401.2	426.0
85°	101.2	87.7	83.2	91.0	104.5	291.7	423.2	278.7	313.0	279.3	222.0
87.5°	30.3	37.1	35.4	34.8	38.2	69.7	225.3	155.1	229.8	87.1	65.2
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)