

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: P317456

Luminaire Tested: **GAN-SA2D-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317456
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-SA2D-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16539 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

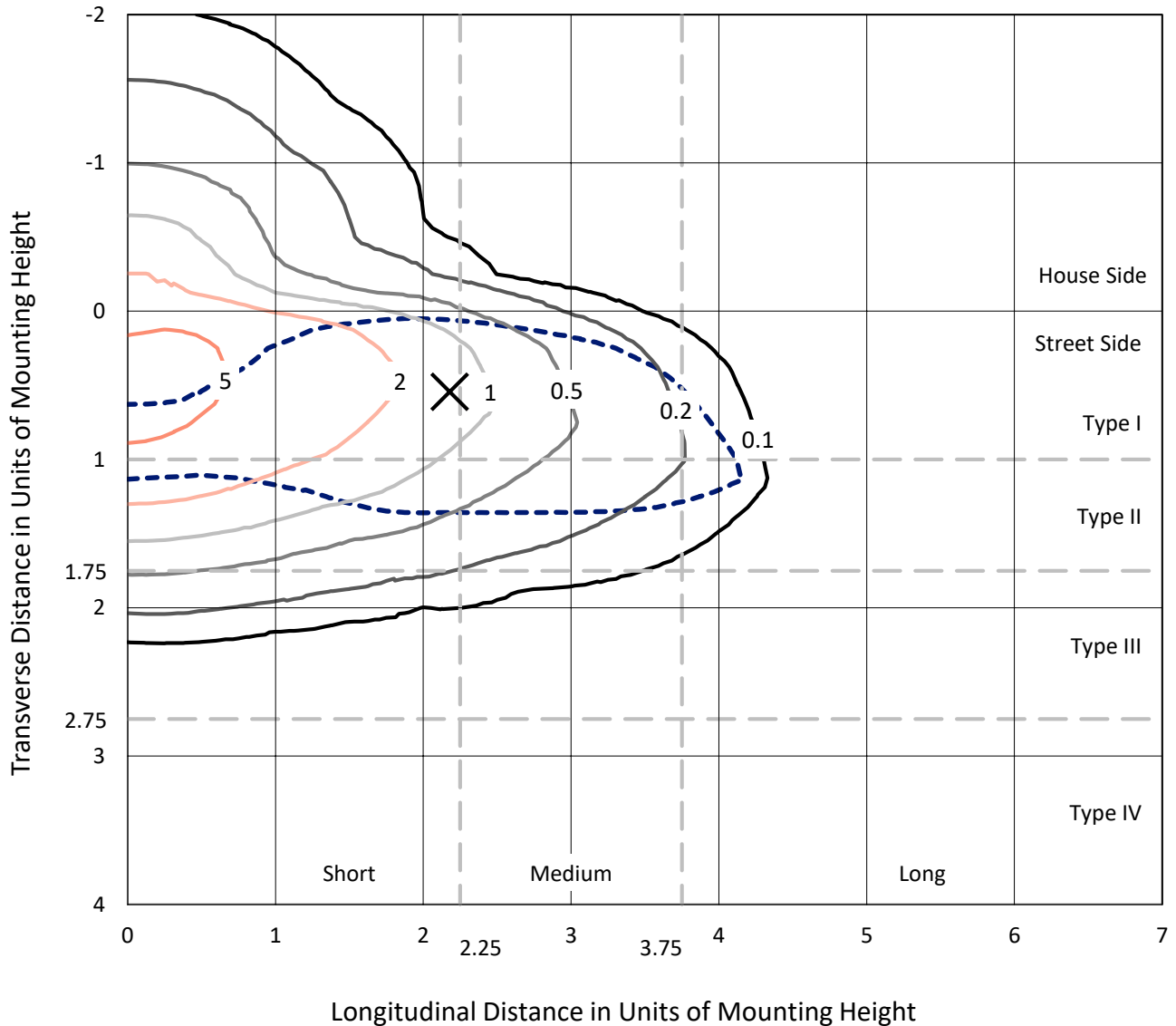
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

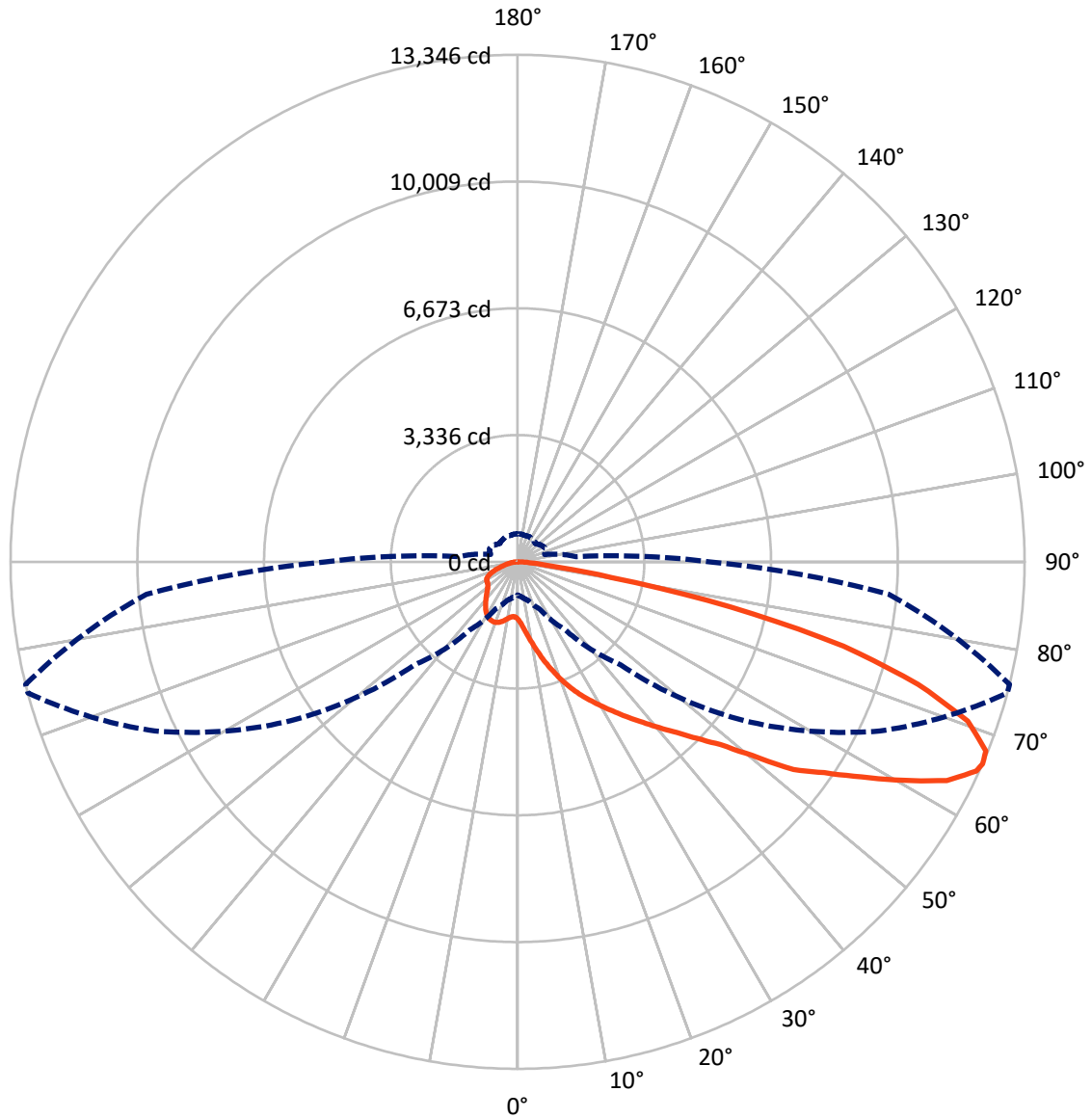
✕ Max cd
 - - - 1/2 Max cd



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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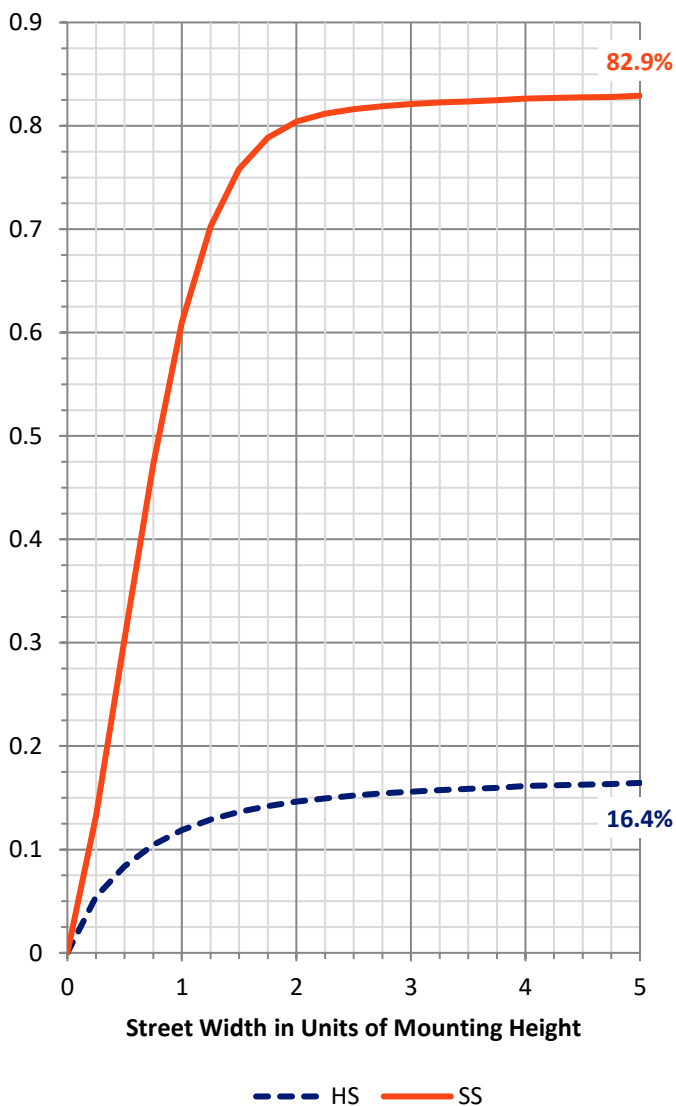
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2783.0	0.0	2783.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	13756.1	0.0	13756.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	16539.0	0.0	16539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.1
10°-20°	721.3	4.4
20°-30°	1401.6	8.5
30°-40°	2287.7	13.8
40°-50°	3125.5	18.9
50°-60°	3640.6	22.0
60°-70°	3263.9	19.7
70°-80°	1649.4	10.0
80°-90°	266.4	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°	16539.0	100.0
0°-180°	16539.0	100.0

Coefficient of Utilization



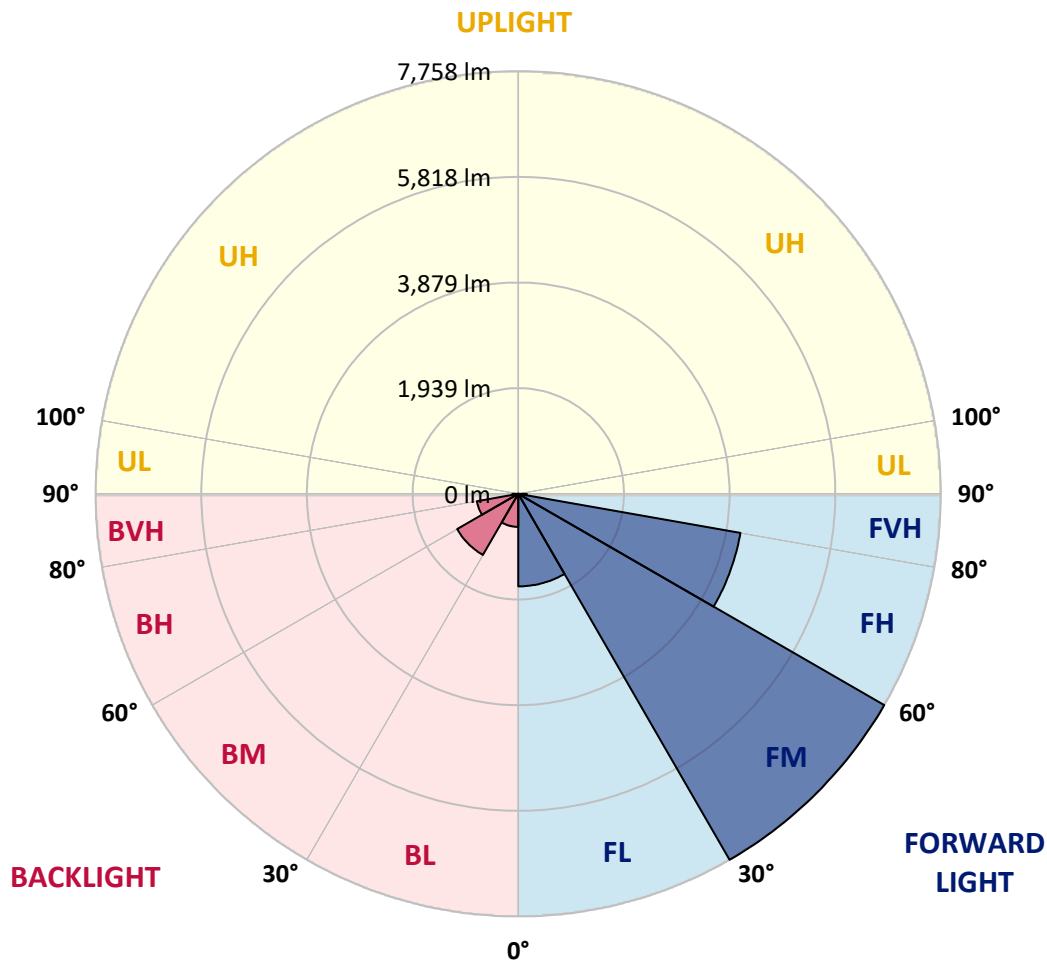
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.5	10.3			
FM (30°-60°)	7757.9	46.9			
FH (60°-80°)	4142.3	25.0			G2/5000
FVH (80°-90°)	157.3	1.0			G2/225
BL (0°-30°)	607.0	3.7	B2/1000		
BM (30°-60°)	1295.9	7.8	B2/2500		
BH (60°-80°)	771.0	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°	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4
2.5°	2005.0	1974.7	1971.9	1927.6	1917.5	1832.7	1770.3	1705.2	1631.1	1616.5	1558.1
5°	2575.5	2572.7	2534.0	2461.5	2404.8	2260.0	2116.8	1965.2	1799.0	1772.0	1640.6
7.5°	3088.7	3084.2	3054.5	2976.4	2894.4	2716.4	2512.1	2279.6	2010.1	1970.2	1752.4
10°	3478.4	3476.7	3466.6	3409.3	3339.7	3169.0	2943.3	2626.0	2255.5	2201.0	1892.2
12.5°	3779.3	3782.7	3789.4	3769.2	3736.1	3590.7	3359.3	2993.3	2517.1	2463.2	2047.7
15°	3983.1	3993.3	4028.1	4056.7	4074.1	3984.8	3760.8	3368.9	2810.2	2745.6	2220.1
17.5°	4085.9	4097.1	4157.2	4243.7	4323.4	4314.4	4136.4	3727.1	3091.5	3029.2	2405.4
20°	4174.6	4183.0	4250.4	4354.3	4495.2	4557.5	4457.6	4071.9	3399.8	3325.7	2601.9
22.5°	4431.8	4442.4	4462.7	4521.6	4646.3	4760.8	4712.5	4398.1	3682.2	3613.1	2788.3
25°	4928.1	4941.0	4897.2	4847.3	4870.8	4950.6	4959.6	4695.7	3968.5	3890.5	2988.8
27.5°	5526.1	5544.6	5469.9	5341.4	5229.1	5198.2	5187.5	4939.3	4242.0	4151.6	3187.0
30°	6111.7	6143.7	6046.6	5879.8	5673.8	5528.9	5421.7	5178.0	4511.5	4425.0	3373.9
32.5°	6683.9	6671.0	6530.0	6367.2	6125.8	5944.4	5685.0	5434.0	4814.7	4715.3	3559.8
35°	7075.8	7080.3	6949.4	6756.3	6526.1	6386.8	6037.6	5710.3	5124.1	5032.6	3770.9
37.5°	7409.3	7388.5	7240.3	7060.1	6861.9	6802.3	6450.3	6014.6	5459.3	5359.3	3995.5
40°	7520.5	7496.3	7399.2	7269.5	7110.6	7105.5	6905.7	6359.3	5838.3	5739.5	4248.7
42.5°	7453.1	7422.2	7382.4	7347.0	7298.1	7320.6	7333.5	6763.6	6254.9	6144.3	4541.8
45°	7204.4	7157.8	7185.8	7262.8	7368.9	7495.8	7719.8	7211.1	6721.5	6628.8	4886.0
47.5°	6822.0	6779.9	6867.5	7032.0	7320.6	7641.8	8085.3	7705.2	7278.5	7186.4	5376.2
50°	6284.1	6296.4	6421.7	6720.9	7157.2	7709.1	8535.6	8359.3	8088.1	8002.2	6044.9
52.5°	5401.4	5403.7	5756.3	6247.6	6867.5	7674.3	8785.5	9195.4	9193.7	9089.8	6681.6
55°	4581.7	4631.7	4910.7	5563.7	6398.1	7535.1	8960.1	9601.9	9919.7	9797.8	7275.1
57.5°	3781.0	3810.2	4074.7	4730.5	5728.2	7163.9	9139.2	10089.8	10756.3	10679.4	8012.9
60°	2870.3	2915.2	3188.7	3794.5	4871.4	6505.3	9156.1	10599.1	11756.3	11678.8	8836.6
62.5°	1863.0	1940.5	2196.5	2764.2	3834.9	5558.1	8765.3	10932.0	12704.1	12676.6	9567.6
65°	1070.7	1129.1	1307.1	1745.1	2645.7	4368.9	7836.0	10804.0	13287.4	13271.7	9841.1
66°	874.8	911.3	1047.7	1363.8	2183.0	3836.6	7295.9	10533.9	13345.3	13345.8	9809.6
67.5°	699.6	715.9	777.1	976.4	1610.9	3041.0	6330.7	9938.2	13273.4	13293.1	9606.9
70°	578.9	587.3	606.4	654.7	879.3	1833.8	4493.5	8390.2	12551.9	12567.1	8815.8
72.5°	519.4	524.4	531.7	538.5	620.4	1024.7	2744.5	6711.9	11005.0	11024.7	7610.3
75°	470.5	473.3	472.2	472.8	520.5	653.0	1418.3	5011.2	8898.3	8859.0	5829.9
77.5°	413.2	416.1	410.4	411.6	460.4	502.0	705.8	3508.1	6005.0	5727.7	3284.7
80°	349.2	351.5	349.2	353.2	400.9	379.0	410.4	1973.6	2655.2	2511.5	1167.9
82.5°	263.9	273.4	280.2	295.9	330.2	269.5	274.6	768.7	808.5	769.8	358.2
85°	115.7	140.9	211.1	226.3	248.2	161.7	180.2	313.3	329.0	318.9	130.3
87.5°	30.3	33.1	104.4	131.4	137.6	73.0	93.8	142.6	150.5	142.6	43.2
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°	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4	1510.4
2.5°	1527.2	1499.7	1450.3	1406.5	1373.4	1350.9	1328.5	1317.2	1310.5	1303.8	1304.9
5°	1576.1	1520.5	1435.7	1375.6	1341.9	1320.6	1309.4	1304.9	1302.1	1295.3	1295.3
7.5°	1649.6	1571.0	1454.2	1392.5	1366.1	1349.8	1343.1	1340.8	1337.4	1329.6	1330.7
10°	1742.3	1632.2	1493.0	1432.9	1408.8	1390.8	1381.2	1377.9	1371.7	1362.7	1363.8
12.5°	1851.2	1708.0	1544.1	1481.2	1452.0	1427.8	1412.1	1402.6	1391.9	1380.1	1380.7
15°	1970.2	1790.6	1599.1	1524.4	1484.6	1450.9	1425.6	1409.3	1392.5	1377.9	1377.3
17.5°	2091.0	1870.3	1641.2	1548.0	1494.1	1449.7	1415.5	1390.2	1369.5	1351.5	1349.8
20°	2221.2	1942.2	1664.8	1545.8	1476.1	1423.4	1377.9	1346.4	1323.4	1305.4	1302.6
22.5°	2353.7	2009.5	1668.7	1522.7	1436.3	1371.7	1324.0	1289.2	1265.6	1247.0	1240.3
25°	2475.0	2061.8	1652.4	1478.4	1380.7	1311.1	1264.5	1229.1	1210.0	1188.1	1181.4
27.5°	2585.6	2098.3	1619.9	1421.7	1318.4	1249.9	1206.1	1175.7	1155.0	1138.1	1132.5
30°	2685.0	2117.9	1566.5	1354.3	1254.3	1192.0	1155.0	1134.2	1116.2	1094.9	1091.0
32.5°	2779.3	2117.9	1498.0	1280.7	1190.9	1140.9	1119.0	1106.1	1085.9	1065.1	1059.5
35°	2873.7	2105.0	1417.2	1203.8	1132.5	1104.4	1103.3	1088.2	1057.3	1029.2	1021.9
37.5°	2973.0	2078.6	1326.2	1131.9	1084.8	1088.2	1097.7	1064.0	1020.2	980.3	969.7
40°	3085.3	2042.1	1231.9	1069.6	1044.9	1080.9	1082.5	1029.2	943.8	907.4	897.8
42.5°	3217.3	2005.6	1144.3	1014.6	1013.5	1059.0	1053.9	954.0	902.9	884.3	879.3
45°	3390.8	1984.8	1061.2	962.4	988.8	1023.6	1005.1	912.4	891.1	880.4	875.9
47.5°	3664.2	1995.5	984.8	920.8	964.1	988.2	914.1	895.6	880.4	867.5	863.0
50°	4006.7	1989.3	923.1	892.2	936.0	951.1	873.1	873.7	865.8	851.2	844.5
52.5°	4264.4	1941.0	883.2	875.9	911.3	885.5	847.3	852.3	848.4	827.1	819.8
55°	4513.2	1899.5	863.0	869.7	893.3	803.5	817.0	829.3	825.4	804.6	801.2
57.5°	4822.6	1891.6	850.6	871.4	878.2	762.5	787.8	804.0	801.2	792.2	790.6
60°	5201.6	1893.9	839.4	874.2	861.3	732.2	760.2	781.0	782.7	781.0	779.9
62.5°	5409.9	1832.7	811.3	866.4	831.6	705.8	731.6	761.9	762.5	765.9	765.3
65°	5233.0	1649.6	759.1	838.9	781.6	683.9	706.9	740.0	731.6	746.8	746.8
66°	5061.2	1544.1	733.3	820.9	760.2	675.5	699.0	728.8	718.1	738.9	738.9
67.5°	4710.3	1366.1	686.7	782.7	729.9	663.7	690.1	710.3	695.7	726.6	724.3
70°	4069.1	1056.7	592.9	696.2	680.0	646.3	677.7	673.2	651.9	699.0	690.1
72.5°	3430.6	802.9	476.1	582.8	604.2	624.4	660.3	626.1	599.1	632.2	612.6
75°	2662.0	603.6	376.2	453.1	510.4	590.1	639.5	571.6	532.8	529.5	518.8
77.5°	1439.1	414.4	298.1	345.9	405.4	547.4	625.5	513.2	454.8	441.3	432.9
80°	569.9	269.5	216.7	262.2	283.5	485.7	591.8	445.3	375.1	361.6	348.7
82.5°	235.3	159.5	139.8	175.7	184.7	415.5	531.2	365.0	289.7	400.9	425.6
85°	101.1	87.6	83.1	91.0	104.4	291.4	422.8	278.5	312.7	279.1	221.8
87.5°	30.3	37.1	35.4	34.8	38.2	69.6	225.2	155.0	229.6	87.0	65.1
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)