

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: P382925

Luminaire Tested: **GAN-SA2D-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382925
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-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 15406.9 lumens
Efficiency: N/A
Efficacy: 119.4 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

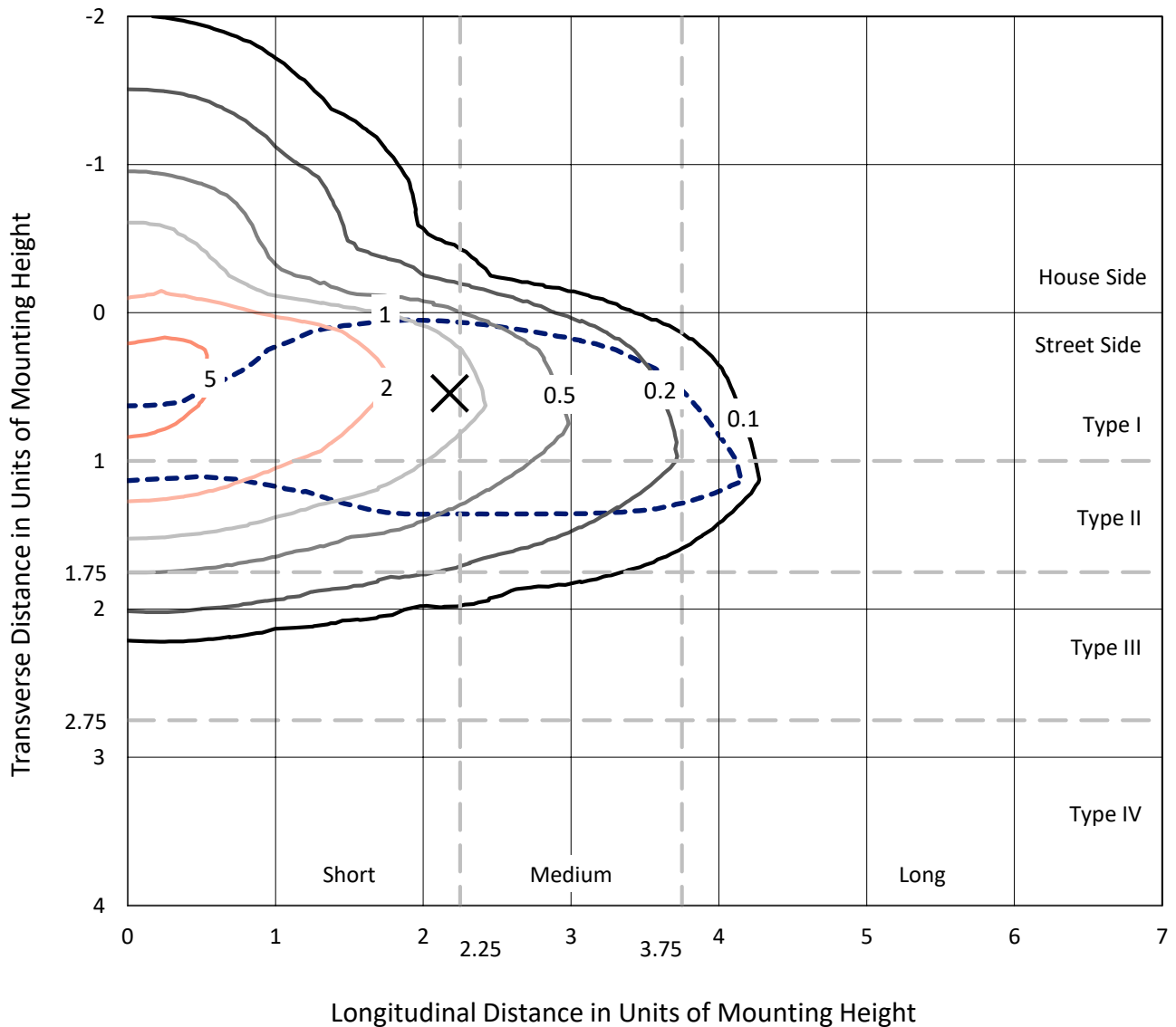




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Iso-Footcandle Lines of Horizontal Illumination

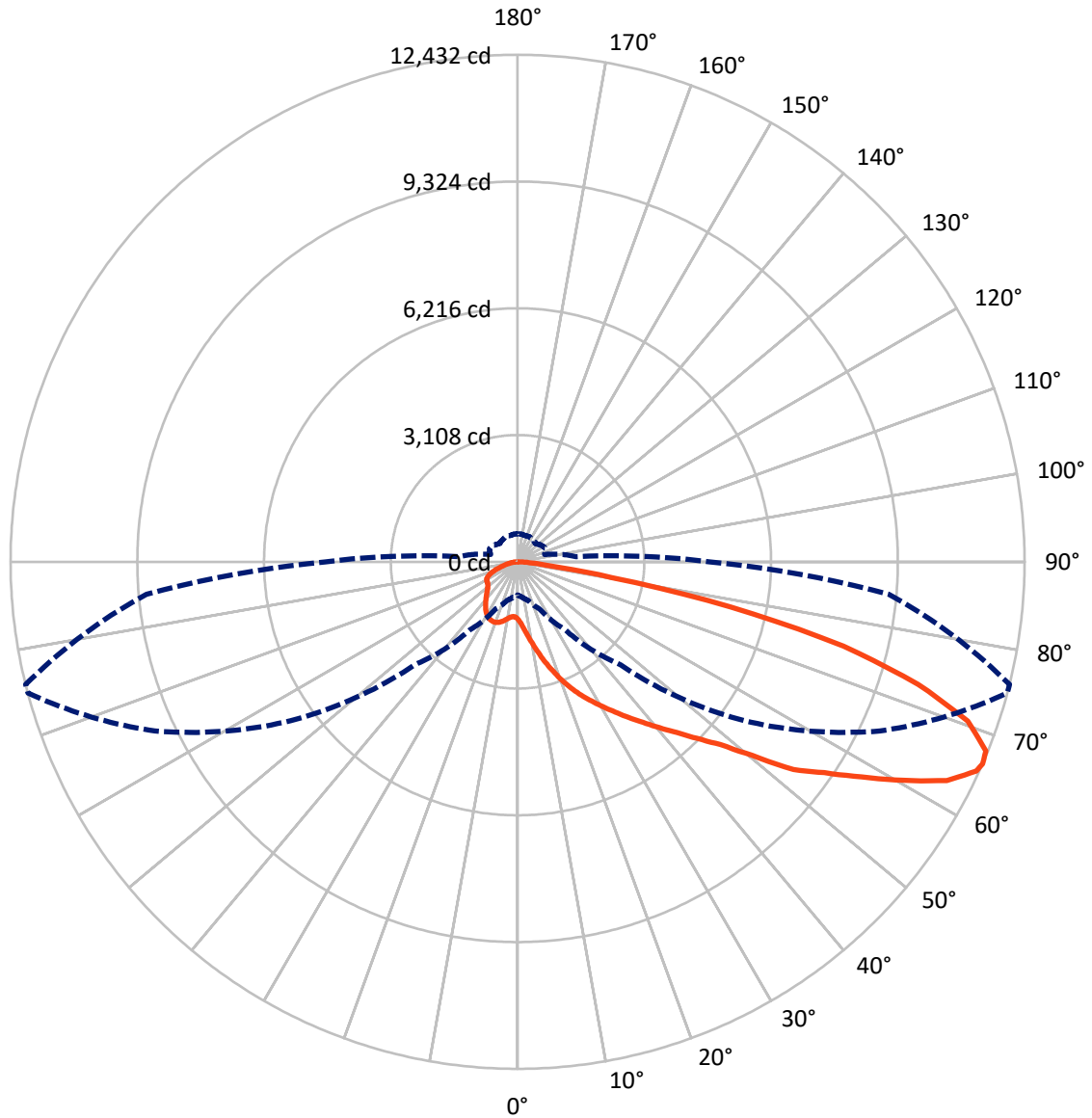
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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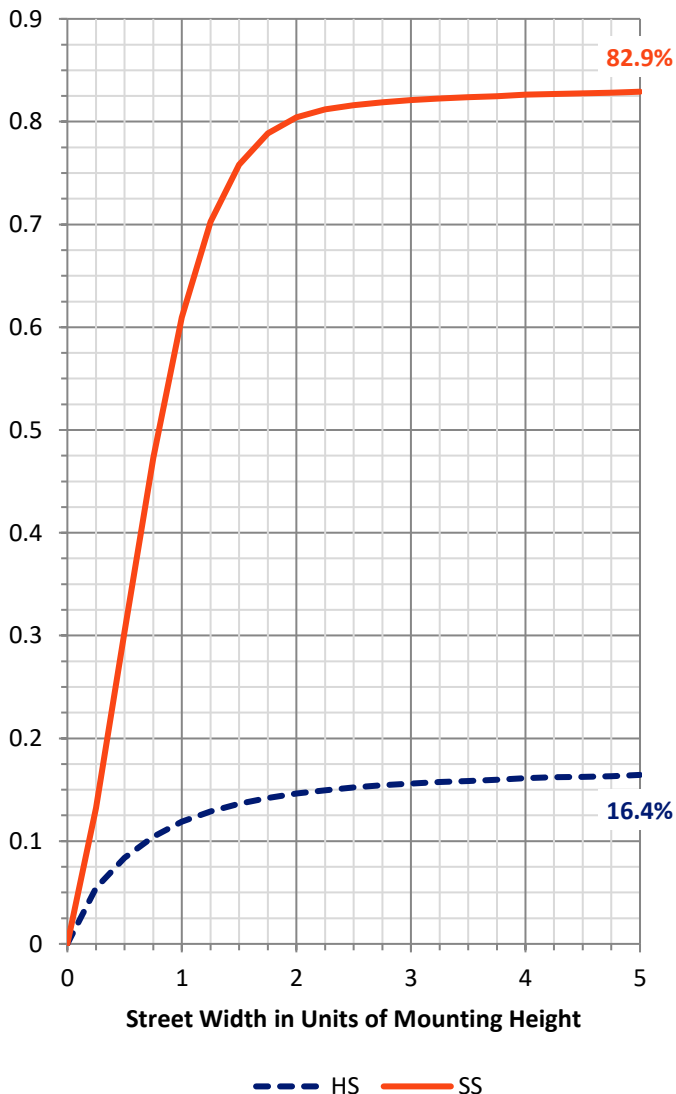
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2592.5	0.0	2592.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	12814.4	0.0	12814.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	15406.9	0.0	15406.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	1.1
10°-20°	671.9	4.4
20°-30°	1305.6	8.5
30°-40°	2131.1	13.8
40°-50°	2911.6	18.9
50°-60°	3391.4	22.0
60°-70°	3040.5	19.7
70°-80°	1536.5	10.0
80°-90°	248.1	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°	15406.9	100.0
0°-180°	15406.9	100.0

Coefficient of Utilization



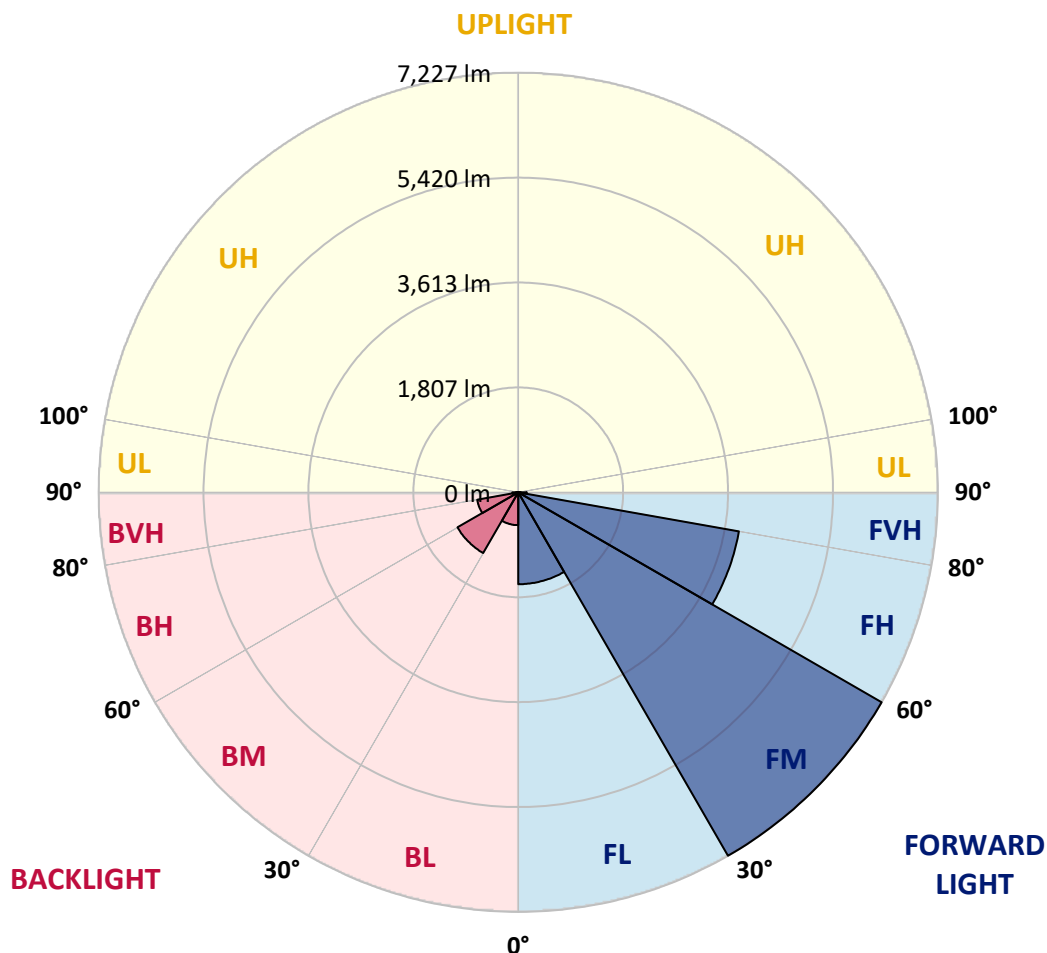
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.2	10.3			
FM (30°-60°)	7226.9	46.9			
FH (60°-80°)	3858.8	25.0			G2/5000
FVH (80°-90°)	146.5	1.0			G2/225
BL (0°-30°)	565.4	3.7	B2/1000		
BM (30°-60°)	1207.2	7.8	B2/2500		
BH (60°-80°)	718.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	101.6	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°	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0
2.5°	1867.8	1839.5	1836.9	1795.7	1786.2	1707.2	1649.1	1588.5	1519.4	1505.8	1451.4
5°	2399.2	2396.6	2360.5	2293.0	2240.2	2105.3	1971.9	1830.7	1675.9	1650.7	1528.3
7.5°	2877.3	2873.1	2845.4	2772.7	2696.3	2530.5	2340.1	2123.6	1872.5	1835.3	1632.4
10°	3240.3	3238.7	3229.3	3175.9	3111.1	2952.1	2741.8	2446.2	2101.1	2050.3	1762.7
12.5°	3520.6	3523.8	3530.0	3511.2	3480.4	3344.9	3129.3	2788.4	2344.8	2294.6	1907.5
15°	3710.4	3719.9	3752.4	3779.0	3795.2	3712.0	3503.4	3138.3	2617.8	2557.7	2068.1
17.5°	3806.2	3816.6	3872.6	3953.2	4027.5	4019.1	3853.3	3472.0	2879.9	2821.8	2240.7
20°	3888.8	3896.7	3959.4	4056.2	4187.5	4245.5	4152.5	3793.2	3167.1	3098.0	2423.8
22.5°	4128.4	4138.3	4157.2	4212.1	4328.2	4434.9	4389.9	4097.0	3430.1	3365.8	2597.4
25°	4590.8	4602.8	4562.0	4515.5	4537.4	4611.7	4620.1	4374.3	3696.8	3624.2	2784.2
27.5°	5147.8	5165.1	5095.5	4975.8	4871.2	4842.4	4832.4	4601.2	3951.6	3867.4	2968.8
30°	5693.3	5723.1	5632.7	5477.3	5285.4	5150.4	5050.6	4823.6	4202.7	4122.1	3142.9
32.5°	6226.4	6214.4	6083.0	5931.3	5706.5	5537.5	5295.8	5062.0	4485.1	4392.5	3316.1
35°	6591.4	6595.6	6473.7	6293.8	6079.4	5949.6	5624.3	5319.4	4773.3	4688.1	3512.8
37.5°	6902.1	6882.7	6744.7	6576.8	6392.2	6336.7	6008.8	5602.9	5085.6	4992.4	3722.0
40°	7005.7	6983.2	6892.7	6771.9	6623.9	6619.1	6433.0	5924.0	5438.7	5346.6	3957.9
42.5°	6942.9	6914.1	6877.1	6844.1	6798.5	6819.5	6831.5	6300.6	5826.7	5723.7	4230.9
45°	6711.2	6667.8	6693.9	6765.6	6864.5	6982.7	7191.4	6717.5	6261.4	6175.0	4551.5
47.5°	6355.0	6315.8	6397.4	6550.6	6819.5	7118.7	7531.8	7177.8	6780.3	6694.5	5008.2
50°	5853.9	5865.4	5982.1	6260.8	6667.3	7181.4	7951.3	7787.1	7534.5	7454.4	5631.1
52.5°	5031.7	5033.8	5362.3	5819.9	6397.4	7149.0	8184.1	8566.0	8564.4	8467.6	6224.2
55°	4268.1	4314.6	4574.6	5182.9	5960.1	7019.3	8346.8	8944.6	9240.7	9127.1	6777.1
57.5°	3522.2	3549.4	3795.8	4406.7	5336.1	6673.5	8513.6	9399.1	10020.0	9948.4	7464.4
60°	2673.8	2715.6	2970.4	3534.8	4537.9	6060.0	8529.3	9873.6	10951.6	10879.4	8231.7
62.5°	1735.5	1807.7	2046.1	2575.0	3572.4	5177.6	8165.3	10183.7	11834.5	11808.9	8912.7
65°	997.4	1051.8	1217.6	1625.6	2464.6	4069.8	7299.6	10064.4	12377.8	12363.2	9167.5
66°	814.9	848.9	976.0	1270.4	2033.6	3574.0	6796.5	9812.8	12431.8	12432.2	9138.1
67.5°	651.7	666.9	723.9	909.6	1500.6	2832.8	5897.3	9257.9	12364.8	12383.2	8949.3
70°	539.3	547.1	564.9	609.9	819.1	1708.3	4185.9	7815.9	11692.7	11706.9	8212.3
72.5°	483.8	488.5	495.3	501.6	577.9	954.6	2556.6	6252.5	10251.7	10270.0	7089.4
75°	438.3	440.9	439.9	440.4	484.9	608.3	1321.2	4668.2	8289.2	8252.6	5430.8
77.5°	384.9	387.6	382.3	383.4	428.9	467.6	657.5	3268.0	5593.9	5335.6	3059.9
80°	325.3	327.4	325.3	329.0	373.5	353.1	382.3	1838.5	2473.4	2339.6	1088.0
82.5°	245.8	254.7	261.0	275.6	307.6	251.1	255.8	716.1	753.2	717.1	333.7
85°	107.8	131.3	196.6	210.8	231.2	150.6	167.9	291.9	306.5	297.1	121.4
87.5°	28.2	30.8	97.3	122.4	128.2	68.0	87.4	132.8	140.2	132.8	40.2
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°	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0	1407.0
2.5°	1422.7	1397.0	1351.0	1310.2	1279.4	1258.4	1237.6	1227.0	1220.8	1214.6	1215.6
5°	1468.2	1416.4	1337.4	1281.4	1250.0	1230.2	1219.8	1215.6	1213.0	1206.6	1206.6
7.5°	1536.7	1463.5	1354.7	1297.2	1272.6	1257.4	1251.2	1249.0	1245.9	1238.6	1239.6
10°	1623.0	1520.5	1390.8	1334.8	1312.4	1295.6	1286.7	1283.6	1277.8	1269.4	1270.4
12.5°	1724.5	1591.1	1438.4	1379.8	1352.6	1330.1	1315.4	1306.6	1296.6	1285.6	1286.2
15°	1835.3	1668.0	1489.6	1420.1	1383.0	1351.6	1328.0	1312.8	1297.2	1283.6	1283.0
17.5°	1947.9	1742.3	1528.9	1442.0	1391.8	1350.5	1318.6	1295.0	1275.8	1259.0	1257.4
20°	2069.2	1809.3	1550.8	1440.0	1375.1	1326.0	1283.6	1254.2	1232.8	1216.0	1213.4
22.5°	2192.6	1871.9	1554.5	1418.5	1338.0	1277.8	1233.4	1201.0	1179.0	1161.6	1155.4
25°	2305.6	1920.7	1539.3	1377.2	1286.2	1221.4	1177.9	1145.0	1127.2	1106.8	1100.5
27.5°	2408.6	1954.7	1509.0	1324.4	1228.2	1164.3	1123.5	1095.2	1075.9	1060.2	1055.0
30°	2501.2	1972.9	1459.3	1261.6	1168.4	1110.4	1075.9	1056.6	1039.8	1020.0	1016.3
32.5°	2589.1	1972.9	1395.5	1193.0	1109.4	1062.8	1042.4	1030.4	1011.6	992.2	987.0
35°	2677.0	1960.9	1320.2	1121.4	1055.0	1028.8	1027.8	1013.7	984.9	958.7	951.9
37.5°	2769.5	1936.3	1235.4	1054.4	1010.5	1013.7	1022.6	991.2	950.4	913.2	903.3
40°	2874.1	1902.3	1147.6	996.4	973.4	1006.9	1008.4	958.7	879.2	845.3	836.3
42.5°	2997.1	1868.3	1066.0	945.1	944.1	986.5	981.8	888.7	841.1	823.8	819.1
45°	3158.7	1848.9	988.6	896.5	921.1	953.5	936.3	849.9	830.1	820.1	815.9
47.5°	3413.4	1858.9	917.4	857.8	898.1	920.6	851.5	834.3	820.1	808.1	803.9
50°	3732.4	1853.1	859.9	831.1	871.9	886.0	813.3	813.9	806.5	792.9	786.7
52.5°	3972.5	1808.1	822.7	815.9	848.9	824.9	789.3	794.0	790.3	770.5	763.7
55°	4204.3	1769.5	803.9	810.2	832.2	748.5	761.1	772.5	768.9	749.5	746.4
57.5°	4492.5	1762.1	792.4	811.8	818.1	710.3	733.9	749.0	746.4	738.0	736.5
60°	4845.5	1764.3	781.9	814.4	802.3	682.1	708.2	727.5	729.1	727.5	726.5
62.5°	5039.6	1707.2	755.8	807.1	774.7	657.5	681.5	709.7	710.3	713.5	712.9
65°	4874.8	1536.7	707.1	781.5	728.1	637.1	658.5	689.3	681.5	695.7	695.7
66°	4714.7	1438.4	683.1	764.7	708.2	629.3	651.2	678.9	668.9	688.3	688.3
67.5°	4387.9	1272.6	639.7	729.1	679.9	618.3	642.9	661.7	648.1	676.9	674.7
70°	3790.6	984.4	552.3	648.5	633.5	602.1	631.3	627.1	607.3	651.2	642.9
72.5°	3195.8	747.9	443.5	542.9	562.8	581.7	615.1	583.2	558.1	588.9	570.7
75°	2479.8	562.3	350.4	422.1	475.5	549.7	595.7	532.5	496.3	493.3	483.3
77.5°	1340.6	386.0	277.7	322.2	377.6	509.9	582.7	478.1	423.7	411.1	403.3
80°	530.9	251.1	201.9	244.3	264.1	452.5	551.3	414.8	349.4	336.8	324.8
82.5°	219.2	148.6	130.2	163.7	172.1	387.1	494.8	340.0	269.9	373.5	396.5
85°	94.2	81.6	77.4	84.8	97.3	271.5	393.9	259.4	291.3	260.0	206.6
87.5°	28.2	34.6	33.0	32.4	35.6	64.8	209.8	144.4	213.9	81.0	60.6
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)