

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: P320977

Luminaire Tested: **GAN-SA3D-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320977
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-SA3D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24302 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

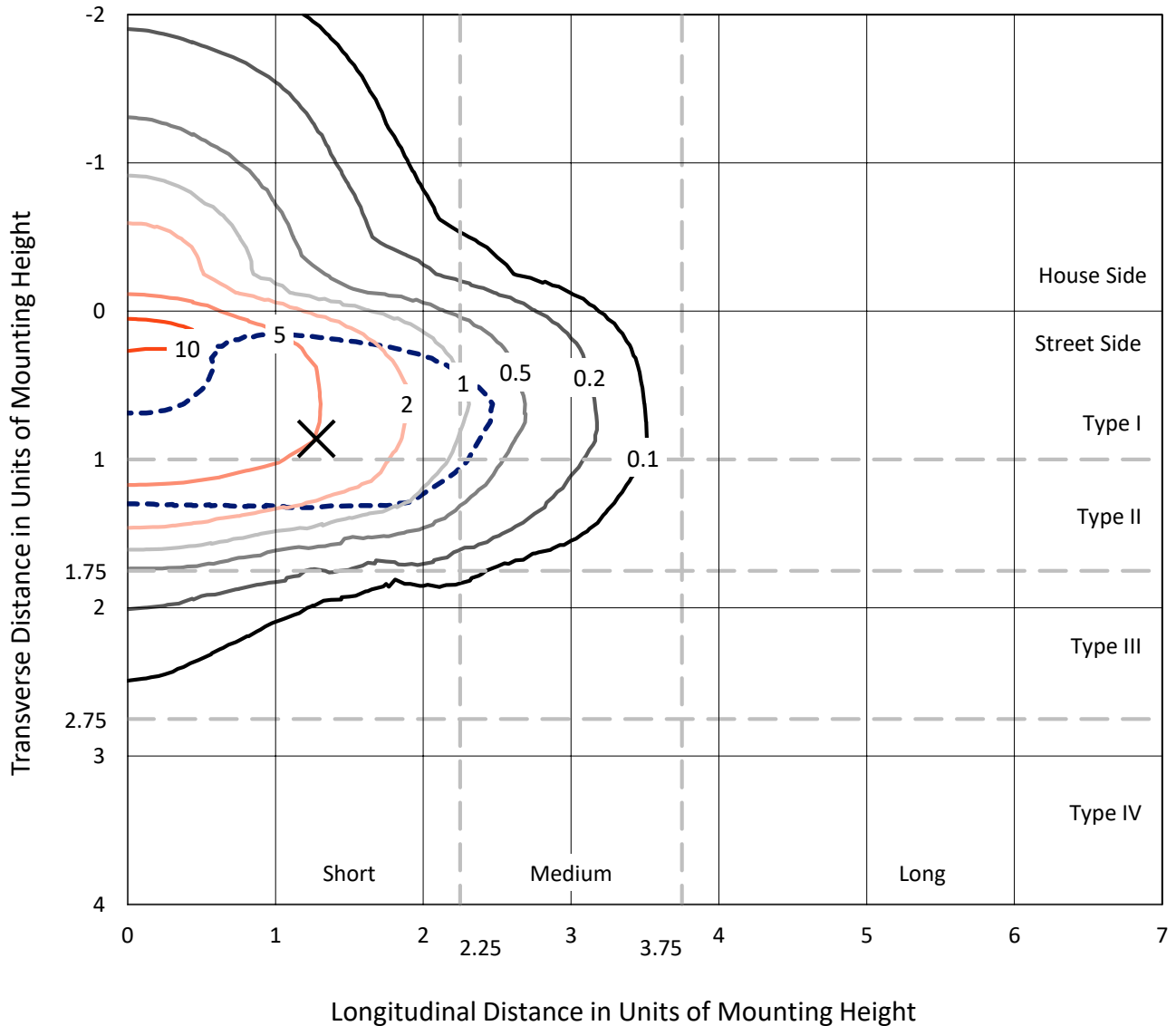
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

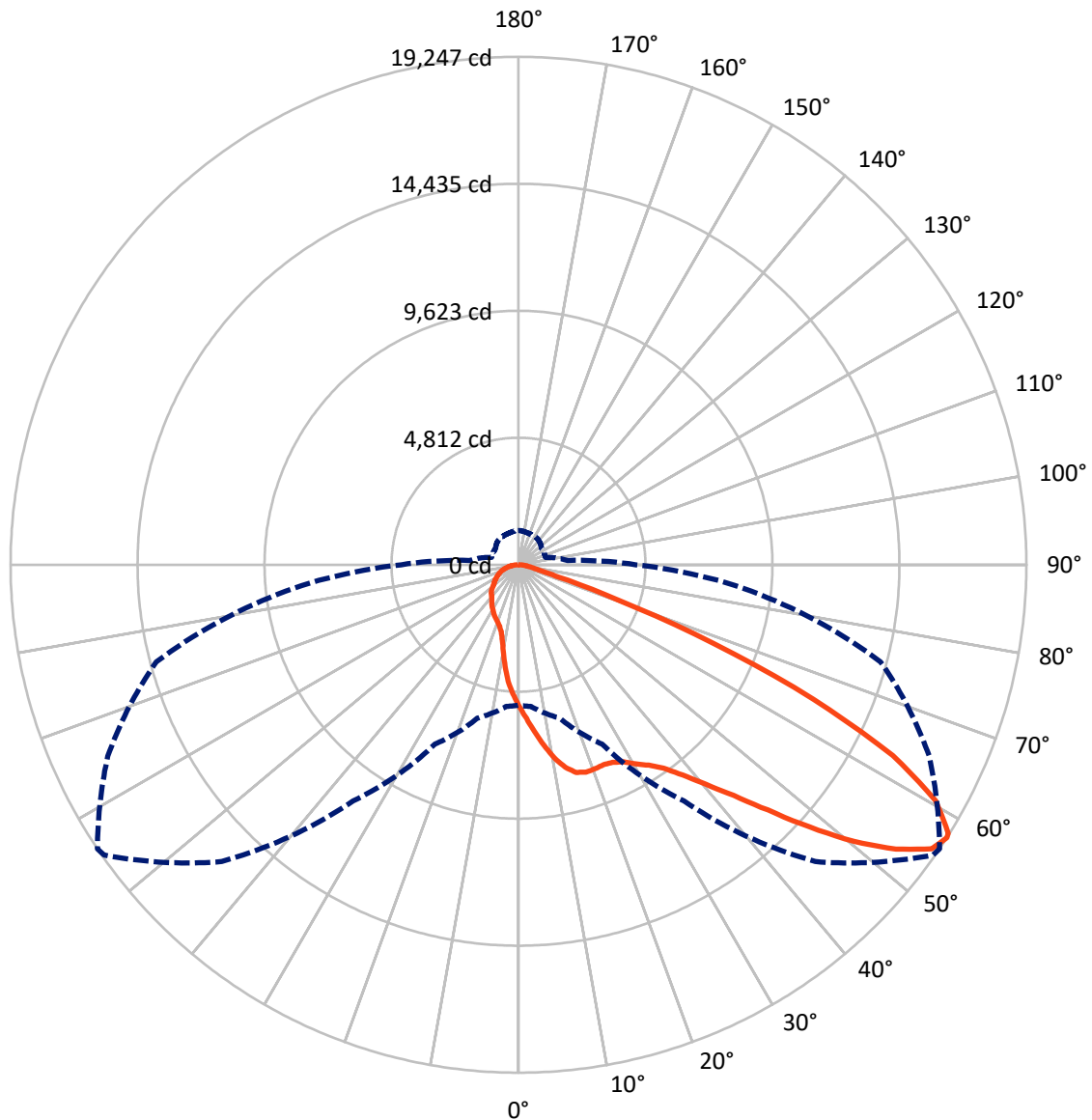
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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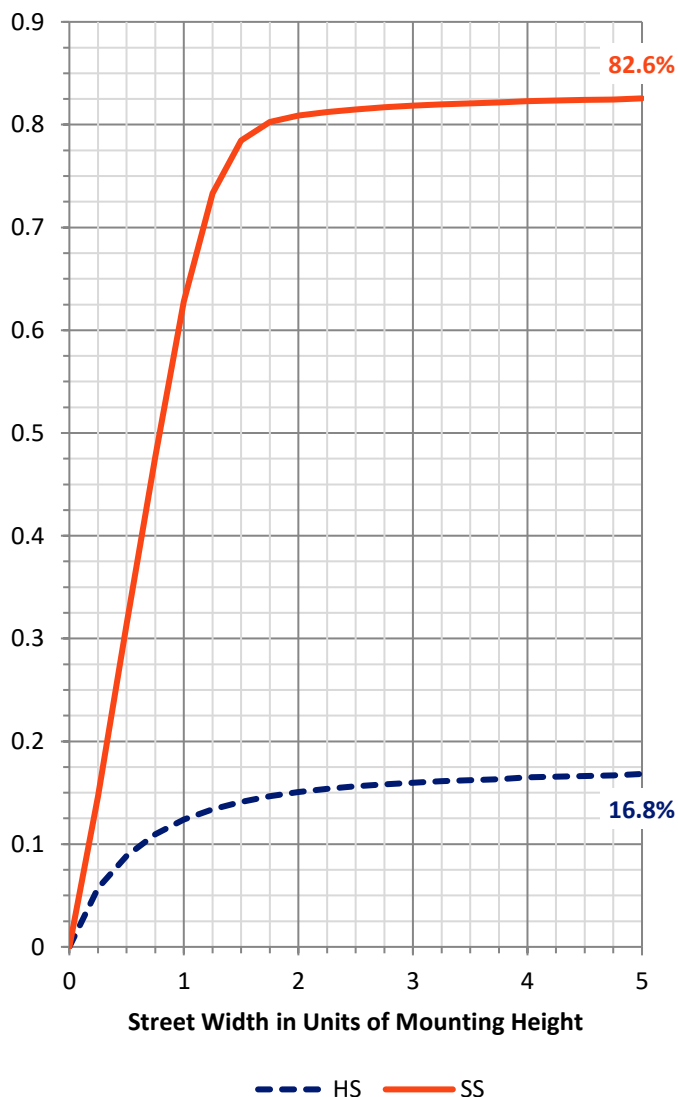
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4189.2	0.0	4189.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	20112.9	0.0	20112.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	24302.0	0.0	24302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.9	2.1
10°-20°	1455.7	6.0
20°-30°	2371.1	9.8
30°-40°	3544.6	14.6
40°-50°	5376.4	22.1
50°-60°	6025.9	24.8
60°-70°	3559.2	14.6
70°-80°	1166.1	4.8
80°-90°	288.1	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°	24302.0	100.0
0°-180°	24302.0	100.0

Coefficient of Utilization

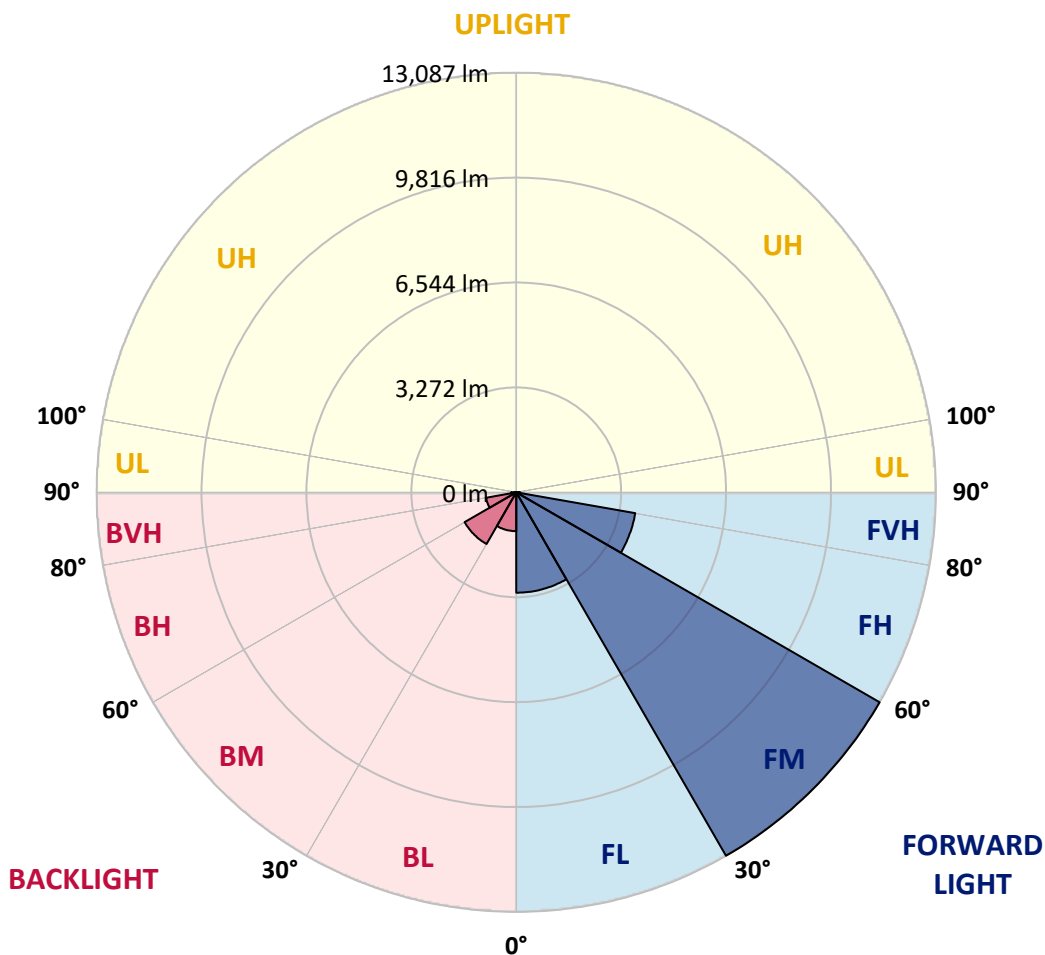


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3130.5	12.9			
FM (30°-60°)	13087.4	53.9			
FH (60°-80°)	3768.1	15.5			G2/5000
FVH (80°-90°)	126.9	0.5			G2/225
BL (0°-30°)	1211.3	5.0	B3/2500		
BM (30°-60°)	1859.4	7.7	B2/2500		
BH (60°-80°)	957.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	161.2	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°	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2
2.5°	6189.5	6246.3	6221.2	6134.3	6067.5	5973.2	5867.9	5836.2	5725.1	5600.7	5451.2
5°	7169.1	7140.7	7099.8	6964.5	6821.7	6655.5	6391.6	6349.8	6102.6	5821.2	5523.8
7.5°	7727.0	7724.5	7700.3	7621.0	7490.7	7273.5	6955.3	6906.0	6532.7	6080.1	5619.0
10°	7646.0	7640.2	7680.2	7762.9	7802.2	7757.1	7489.0	7439.7	6981.2	6366.5	5729.3
12.5°	7185.8	7189.2	7253.5	7427.2	7663.5	7947.5	7904.1	7879.9	7446.4	6690.6	5862.9
15°	6827.5	6835.1	6886.0	7037.2	7316.1	7831.4	8156.3	8164.7	7896.6	7048.0	6019.1
17.5°	6670.5	6686.4	6709.8	6815.8	7071.4	7600.1	8216.4	8261.5	8290.8	7418.8	6169.4
20°	6720.6	6735.7	6742.4	6810.0	7019.6	7459.8	8174.7	8255.7	8593.1	7767.9	6319.8
22.5°	6945.3	6954.5	6958.7	6976.2	7139.1	7499.9	8147.1	8232.3	8811.9	8081.1	6433.3
25°	7317.8	7311.1	7284.4	7261.8	7371.2	7658.5	8210.6	8291.6	8989.8	8365.1	6507.7
27.5°	7763.8	7755.4	7703.6	7641.8	7704.5	7905.7	8393.5	8457.8	9149.3	8630.7	6545.2
30°	8299.1	8277.4	8179.7	8106.2	8130.4	8276.6	8695.0	8753.4	9395.7	8932.2	6582.0
32.5°	8918.0	8894.6	8753.4	8631.5	8631.5	8753.4	9005.7	9054.1	9604.5	9272.9	6641.3
35°	9693.0	9663.8	9480.0	9275.4	9217.8	9279.6	9429.1	9463.3	9980.3	9702.2	6749.0
37.5°	10606.7	10567.4	10329.4	10055.5	9929.4	9926.0	10033.8	10103.9	10580.8	10265.9	6931.9
40°	11522.9	11495.3	11287.4	11071.9	10824.7	10745.3	10911.5	10933.2	11365.9	10965.8	7165.8
42.5°	12231.1	12226.1	12187.7	12216.1	11963.0	11802.7	11933.0	11950.5	12324.6	11723.3	7414.7
45°	12605.3	12613.6	12799.9	13212.4	13306.0	13189.1	13253.4	13258.4	13420.4	12487.5	7642.7
47.5°	12305.4	12348.9	12819.9	13742.8	14508.6	14897.0	14790.1	14851.9	14482.7	13144.0	7821.4
50°	11137.0	11190.5	11992.2	13506.4	15069.9	16549.8	16493.8	16479.6	15339.6	13625.0	7918.3
52.5°	9689.7	9731.4	10392.9	12277.9	14658.1	17463.5	17977.1	17903.6	16101.3	13985.0	7936.6
55°	7485.7	7550.8	8184.7	9825.8	12992.8	17114.4	19067.8	19001.9	16795.3	14173.7	7914.9
57°	5321.7	5390.2	6019.9	7499.0	10929.9	15905.9	19176.4	19246.6	17170.3	14205.5	7939.2
57.5°	4748.8	4818.9	5442.8	6879.3	10286.8	15469.1	19082.9	19199.8	17238.0	14200.4	7952.5
60°	2391.1	2417.8	2815.4	3840.1	6502.7	12505.9	17862.7	18164.2	17298.9	13954.9	8010.1
62.5°	1486.6	1467.4	1454.9	1768.9	3163.6	8293.3	15344.6	15925.1	16132.2	13360.3	7870.7
65°	1307.0	1271.1	1133.3	1108.3	1397.2	4028.0	11555.5	12277.9	13639.2	12423.2	7538.3
67.5°	1227.7	1192.6	1037.3	943.7	944.6	1596.9	7174.1	7987.6	10625.1	10838.9	6754.0
70°	1145.9	1114.1	968.8	858.6	804.3	884.4	3300.6	3917.8	6926.1	8519.6	5644.9
72.5°	1040.6	1018.9	881.1	767.5	709.9	662.3	1263.6	1492.5	4009.7	5721.8	3920.3
75°	930.4	910.3	792.6	684.0	613.9	521.1	711.6	766.7	2037.0	2927.3	1930.1
77.5°	809.3	797.6	704.9	604.7	548.7	431.8	503.6	530.3	873.6	1255.3	968.0
80°	643.9	666.5	616.4	538.7	486.9	345.8	356.6	374.2	508.6	613.0	549.5
82.5°	419.3	458.5	482.7	437.6	400.9	272.3	256.4	263.9	331.6	374.2	238.9
85°	174.6	196.3	317.4	286.5	266.4	198.8	172.0	175.4	205.5	213.0	97.7
87.5°	77.7	82.7	139.5	131.1	112.7	68.5	73.5	80.2	109.4	103.6	37.6
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°	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2
2.5°	5395.2	5325.1	5204.8	5072.0	4963.4	4876.6	4788.9	4728.7	4658.6	4621.0	4601.8
5°	5399.4	5261.6	5008.5	4748.8	4516.6	4304.5	4102.4	3947.0	3801.7	3723.2	3701.5
7.5°	5416.9	5209.8	4800.6	4373.0	3960.4	3583.7	3293.1	3111.0	2979.9	2921.4	2904.7
10°	5431.1	5148.8	4543.3	3910.3	3349.0	2967.4	2741.9	2640.0	2594.9	2587.4	2579.8
12.5°	5464.5	5086.2	4272.7	3427.5	2873.8	2609.9	2531.4	2524.7	2537.3	2555.6	2555.6
15°	5517.2	5024.4	3963.7	3013.3	2571.5	2478.8	2494.7	2531.4	2565.7	2594.0	2598.2
17.5°	5555.6	4948.4	3631.3	2681.7	2410.3	2435.4	2492.2	2543.9	2579.0	2606.6	2609.1
20°	5583.1	4830.6	3276.4	2428.7	2317.6	2395.3	2466.3	2512.2	2536.4	2564.0	2568.2
22.5°	5568.9	4672.8	2961.5	2247.5	2242.4	2336.8	2404.5	2459.6	2441.2	2414.5	2432.0
25°	5500.4	4455.6	2637.5	2112.2	2163.1	2258.3	2341.8	2305.1	2243.3	2231.6	2238.3
27.5°	5378.5	4178.4	2337.6	1986.9	2071.2	2185.6	2180.6	2143.9	2122.2	2107.1	2116.3
30°	5247.4	3877.7	2075.4	1877.5	1969.3	2063.7	2044.5	2043.7	2022.0	1997.7	2009.4
32.5°	5117.9	3575.4	1867.4	1787.3	1892.5	1905.0	1946.8	1959.3	1916.7	1865.8	1862.4
35°	5005.2	3289.7	1709.6	1705.4	1799.8	1801.5	1862.4	1844.9	1738.8	1686.2	1686.2
37.5°	4920.8	3005.0	1589.3	1631.9	1677.9	1721.3	1752.2	1679.5	1662.0	1632.8	1631.9
40°	4884.1	2754.4	1514.2	1576.0	1591.8	1647.0	1567.6	1596.0	1604.4	1589.3	1589.3
42.5°	4845.7	2536.4	1449.0	1533.4	1530.9	1523.4	1483.3	1520.0	1553.4	1554.3	1551.8
45°	4807.3	2348.5	1391.4	1442.3	1477.4	1396.4	1403.9	1443.2	1489.9	1506.7	1506.7
47.5°	4764.7	2199.8	1338.8	1346.3	1400.6	1346.3	1340.5	1370.5	1425.6	1452.4	1458.2
50°	4671.1	2066.2	1278.6	1261.9	1277.0	1295.4	1300.4	1314.6	1375.5	1418.1	1428.1
52.5°	4541.7	1946.8	1201.8	1184.3	1184.3	1253.6	1277.0	1281.2	1332.9	1383.9	1393.9
55°	4433.9	1870.8	1122.5	1119.1	1115.8	1209.3	1249.4	1256.1	1292.0	1332.1	1337.1
57°	4441.4	1864.9	1061.5	1064.8	1064.0	1164.2	1223.5	1237.7	1256.1	1290.3	1296.2
57.5°	4445.6	1869.1	1048.1	1049.8	1049.0	1151.7	1216.0	1231.9	1246.1	1282.0	1287.8
60°	4508.3	1880.0	993.9	975.5	979.7	1084.9	1173.4	1193.5	1202.6	1250.3	1257.8
62.5°	4415.6	1831.5	950.4	906.2	906.2	1014.7	1114.1	1145.9	1160.1	1224.4	1236.9
65°	4146.6	1695.4	899.5	827.7	836.0	944.6	1043.1	1094.9	1116.6	1196.8	1210.2
67.5°	3731.6	1537.6	845.2	757.5	765.9	871.1	969.6	1025.6	1059.8	1166.7	1177.6
70°	3191.2	1344.6	771.7	683.2	693.2	790.9	882.8	946.3	997.2	1138.3	1141.7
72.5°	2352.7	1102.4	669.0	601.3	612.2	697.4	795.1	868.6	937.1	1067.4	1065.7
75°	1398.9	861.9	555.4	518.6	526.2	605.5	715.7	805.1	907.8	1039.8	1055.7
77.5°	848.5	648.9	452.7	434.3	443.5	524.5	659.0	754.2	895.3	980.5	975.5
80°	512.8	463.5	361.6	349.9	359.1	448.5	609.7	715.7	782.6	837.7	837.7
82.5°	268.1	283.1	265.6	256.4	268.9	364.1	554.6	624.7	691.5	593.8	554.6
85°	109.4	147.8	161.2	160.4	167.9	252.2	478.6	534.5	446.0	423.4	433.5
87.5°	36.7	62.6	78.5	67.6	71.0	158.7	331.6	258.1	306.5	213.8	202.9
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)