

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: P317398

Luminaire Tested: **GAN-SA4B-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317398
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-SA4B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 21872 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

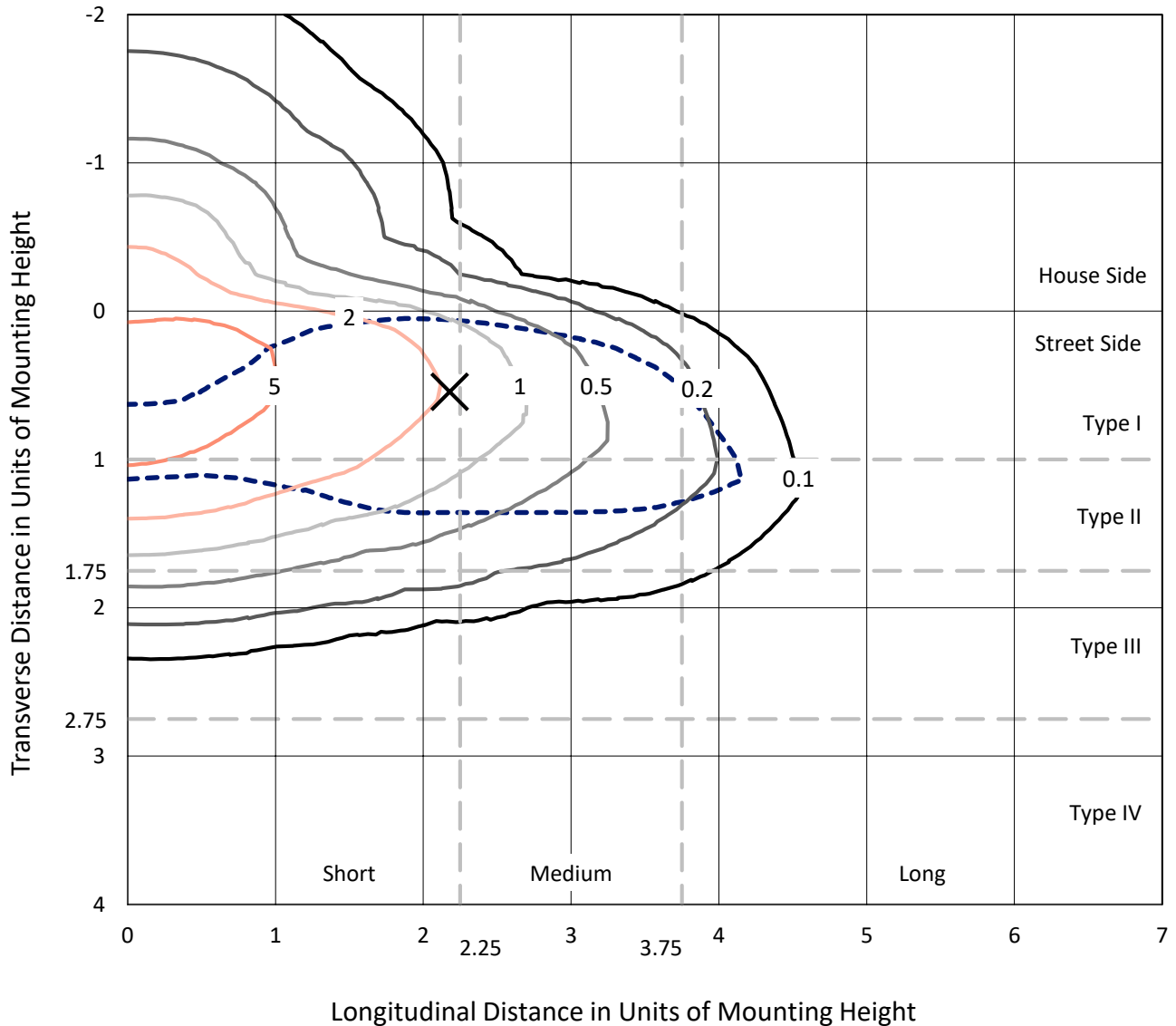
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

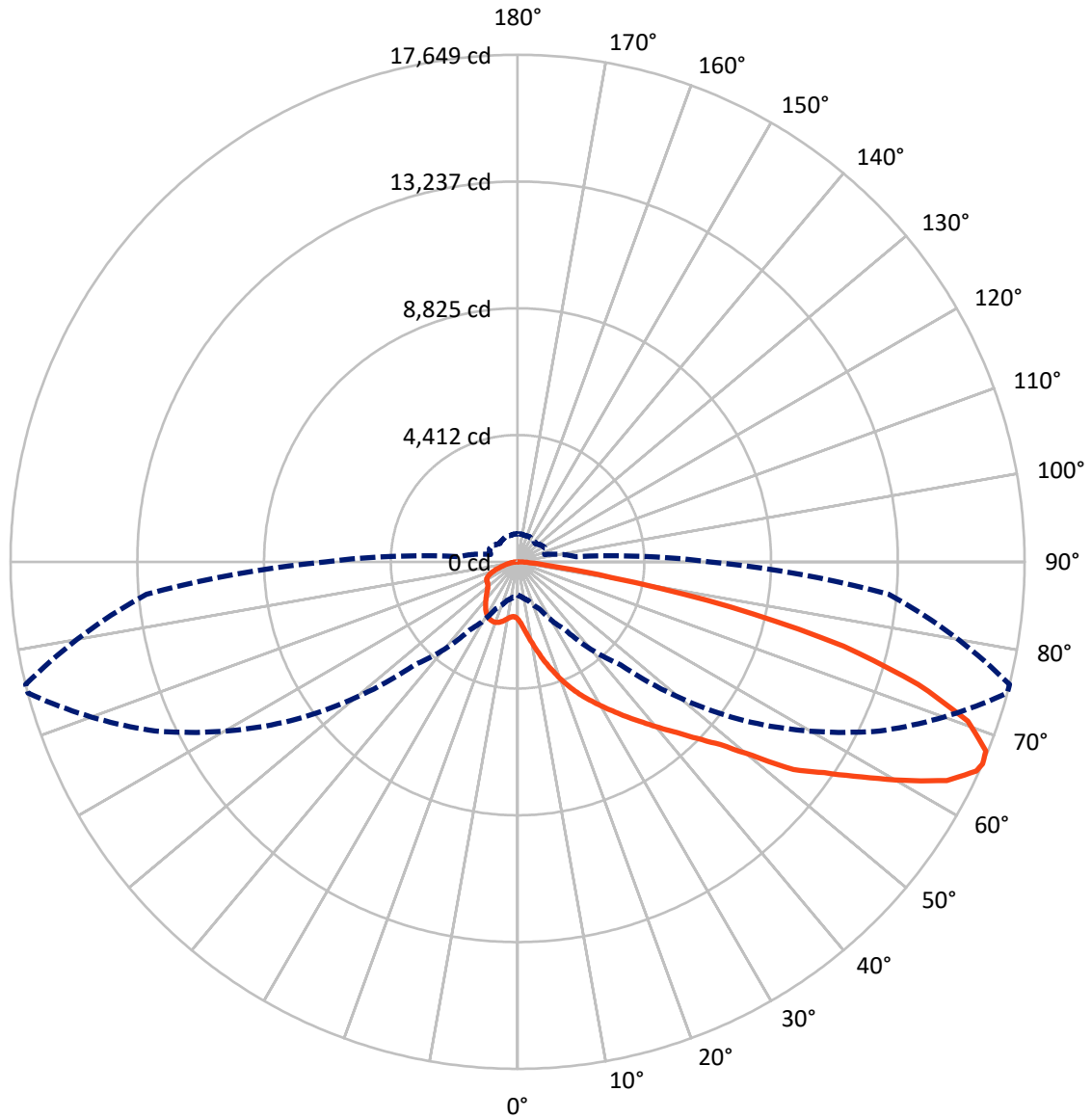
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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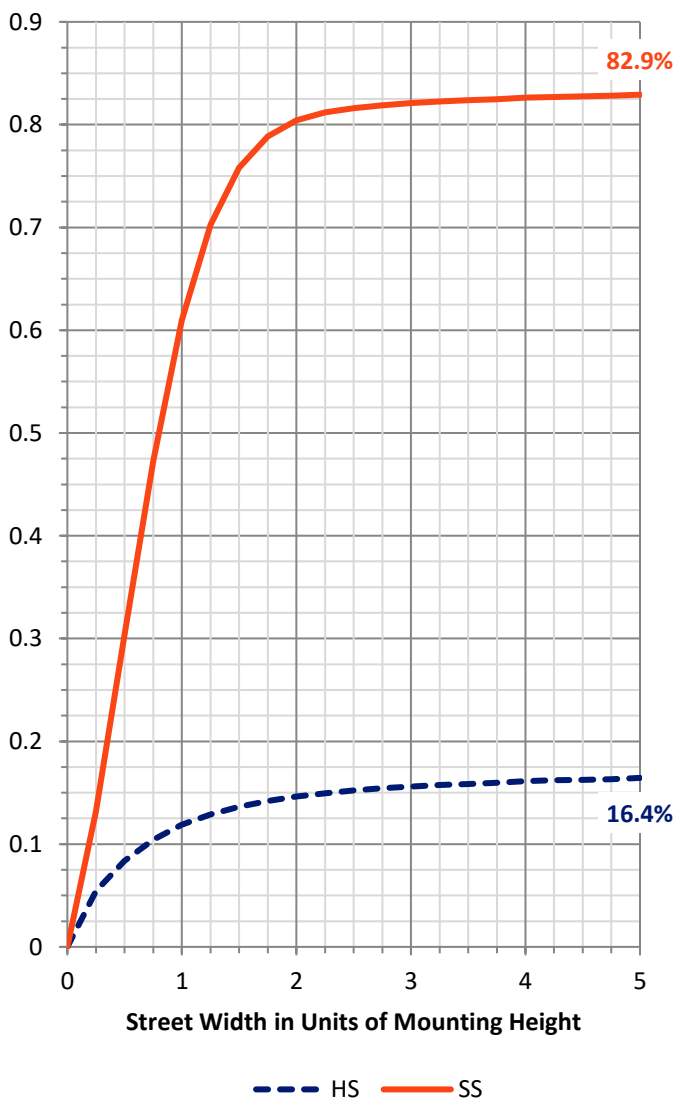
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3680.3	0.0	3680.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18191.7	0.0	18191.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	21872.0	0.0	21872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.1
10°-20°	953.8	4.4
20°-30°	1853.5	8.5
30°-40°	3025.4	13.8
40°-50°	4133.4	18.9
50°-60°	4814.5	22.0
60°-70°	4316.3	19.7
70°-80°	2181.3	10.0
80°-90°	352.2	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°	21872.0	100.0
0°-180°	21872.0	100.0

Coefficient of Utilization

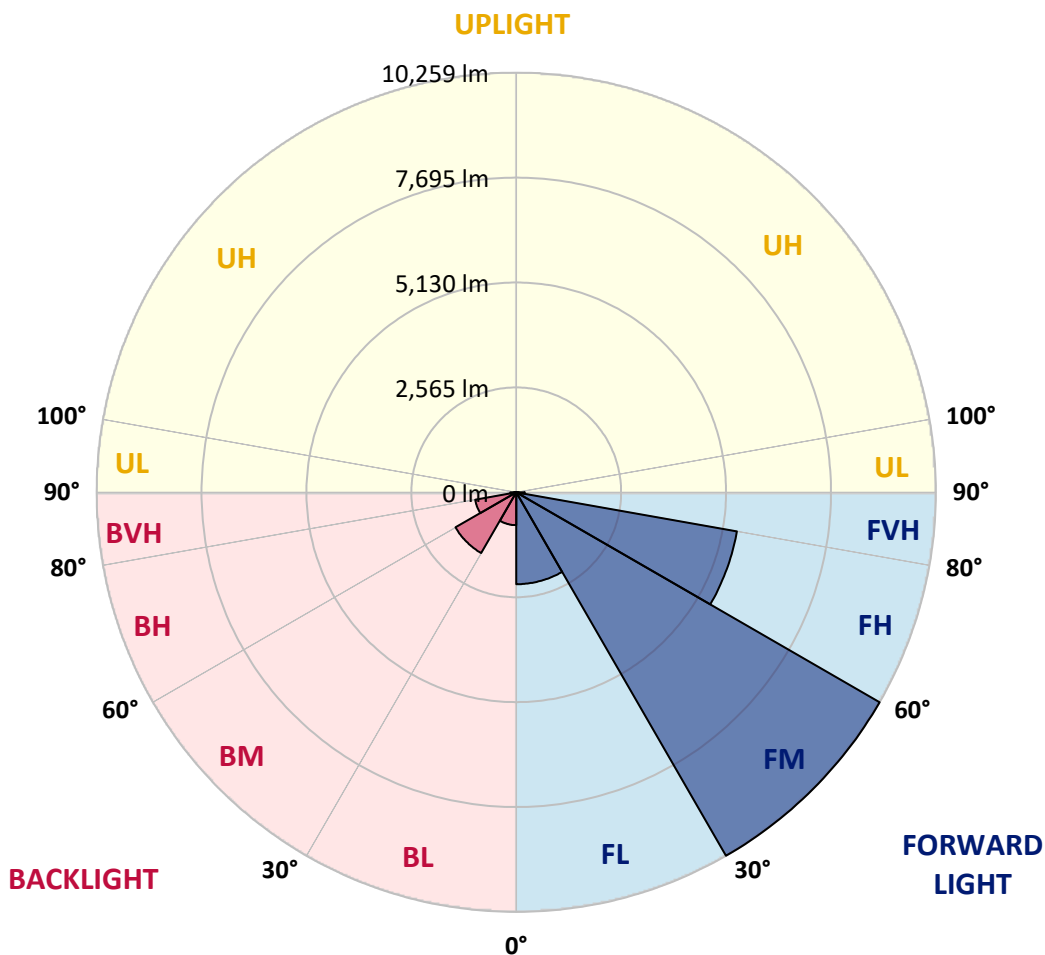


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2246.2	10.3			
FM (30°-60°)	10259.5	46.9			
FH (60°-80°)	5478.0	25.0			G3/7500
FVH (80°-90°)	208.0	1.0			G2/225
BL (0°-30°)	802.7	3.7	B2/1000		
BM (30°-60°)	1713.8	7.8	B2/2500		
BH (60°-80°)	1019.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	144.2	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4
2.5°	2651.6	2611.5	2607.8	2549.1	2535.7	2423.6	2341.2	2255.1	2157.1	2137.7	2060.5
5°	3406.0	3402.3	3351.0	3255.3	3180.3	2988.7	2799.3	2598.9	2379.1	2343.4	2169.7
7.5°	4084.7	4078.7	4039.4	3936.2	3827.7	3592.4	3322.1	3014.7	2658.3	2605.5	2317.4
10°	4600.0	4597.7	4584.4	4508.6	4416.6	4190.8	3892.3	3472.8	2982.7	2910.7	2502.3
12.5°	4998.0	5002.4	5011.3	4984.6	4940.8	4748.5	4442.6	3958.4	3328.8	3257.5	2708.0
15°	5267.5	5280.9	5326.9	5364.8	5387.8	5269.7	4973.5	4455.2	3716.4	3631.0	2936.0
17.5°	5403.4	5418.2	5497.7	5612.0	5717.5	5705.6	5470.2	4928.9	4088.4	4006.0	3181.0
20°	5520.7	5531.9	5621.0	5758.3	5944.7	6027.1	5894.9	5384.8	4496.0	4398.0	3440.9
22.5°	5860.8	5874.9	5901.6	5979.6	6144.4	6295.9	6232.1	5816.2	4869.5	4778.2	3687.4
25°	6517.2	6534.3	6476.4	6410.3	6441.5	6546.9	6558.8	6209.8	5248.2	5145.0	3952.5
27.5°	7308.0	7332.5	7233.7	7063.7	6915.2	6874.3	6860.2	6532.0	5609.8	5490.3	4214.6
30°	8082.4	8124.8	7996.3	7775.8	7503.3	7311.7	7169.9	6847.6	5966.2	5851.9	4461.9
32.5°	8839.1	8822.0	8635.6	8420.3	8101.0	7861.2	7518.1	7186.2	6367.2	6235.8	4707.6
35°	9357.4	9363.3	9190.3	8934.9	8630.4	8446.3	7984.4	7551.5	6776.3	6655.3	4986.8
37.5°	9798.4	9771.0	9574.9	9336.6	9074.5	8995.8	8530.2	7954.0	7219.6	7087.5	5283.8
40°	9945.5	9913.5	9785.1	9613.5	9403.4	9396.7	9132.4	8409.9	7720.8	7590.1	5618.7
42.5°	9856.3	9815.5	9762.8	9716.0	9651.4	9681.1	9698.2	8944.5	8271.8	8125.5	6006.3
45°	9527.4	9465.8	9502.9	9604.6	9745.0	9912.8	10209.1	9536.3	8888.8	8766.3	6461.5
47.5°	9021.7	8966.1	9081.9	9299.5	9681.1	10105.8	10692.4	10189.7	9625.4	9503.6	7109.7
50°	8310.4	8326.7	8492.3	8888.1	9465.0	10194.9	11287.9	11054.8	10696.2	10582.5	7994.1
52.5°	7143.1	7146.1	7612.4	8262.1	9081.9	10148.9	11618.4	12160.4	12158.2	12020.8	8836.1
55°	6059.0	6125.1	6494.2	7357.7	8461.1	9964.8	11849.3	12698.0	13118.3	12957.2	9621.0
57.5°	5000.2	5038.8	5388.5	6255.8	7575.3	9473.9	12086.2	13343.3	14224.7	14122.9	10596.7
60°	3795.8	3855.2	4216.8	5018.0	6442.2	8603.0	12108.4	14016.7	15547.1	15444.6	11685.9
62.5°	2463.7	2566.2	2904.8	3655.5	5071.5	7350.3	11591.6	14457.1	16800.5	16764.1	12652.7
65°	1416.0	1493.2	1728.6	2307.8	3498.8	5777.6	10362.8	14287.8	17572.0	17551.2	13014.3
66°	1156.9	1205.1	1385.6	1803.6	2887.0	5073.7	9648.4	13930.6	17648.5	17649.2	12972.7
67.5°	925.2	946.7	1027.7	1291.3	2130.3	4021.5	8372.0	13142.8	17553.4	17579.4	12704.7
70°	765.5	776.7	801.9	865.8	1162.8	2425.1	5942.5	11095.6	16599.3	16619.3	11658.5
72.5°	686.8	693.5	703.2	712.1	820.5	1355.1	3629.5	8876.2	14553.6	14579.6	10064.3
75°	622.2	626.0	624.5	625.2	688.3	863.6	1875.6	6627.1	11767.6	11715.6	7709.7
77.5°	546.5	550.2	542.8	544.3	608.9	663.8	933.4	4639.3	7941.4	7574.6	4343.8
80°	461.9	464.8	461.9	467.1	530.2	501.2	542.8	2610.0	3511.4	3321.3	1544.5
82.5°	349.0	361.6	370.5	391.3	436.6	356.4	363.1	1016.5	1069.2	1018.0	473.7
85°	153.0	186.4	279.2	299.2	328.2	213.8	238.4	414.3	435.1	421.8	172.3
87.5°	40.1	43.8	138.1	173.8	181.9	96.5	124.0	188.6	199.0	188.6	57.2
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°	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4	1997.4
2.5°	2019.7	1983.3	1918.0	1860.0	1816.2	1786.5	1756.8	1742.0	1733.1	1724.2	1725.6
5°	2084.3	2010.8	1898.7	1819.2	1774.6	1746.4	1731.6	1725.6	1721.9	1713.0	1713.0
7.5°	2181.6	2077.6	1923.2	1841.5	1806.6	1785.0	1776.1	1773.2	1768.7	1758.3	1759.8
10°	2304.1	2158.5	1974.4	1894.9	1863.0	1839.2	1826.6	1822.2	1814.0	1802.1	1803.6
12.5°	2448.1	2258.8	2042.0	1958.8	1920.2	1888.3	1867.5	1854.8	1840.7	1825.1	1825.9
15°	2605.5	2367.9	2114.7	2016.0	1963.3	1918.7	1885.3	1863.8	1841.5	1822.2	1821.4
17.5°	2765.2	2473.4	2170.4	2047.2	1975.9	1917.2	1871.9	1838.5	1811.0	1787.3	1785.0
20°	2937.5	2568.4	2201.6	2044.2	1952.1	1882.3	1822.2	1780.6	1750.1	1726.4	1722.7
22.5°	3112.7	2657.5	2206.8	2013.7	1899.4	1814.0	1750.9	1704.8	1673.7	1649.2	1640.2
25°	3273.1	2726.6	2185.3	1955.1	1825.9	1733.8	1672.2	1625.4	1600.2	1571.2	1562.3
27.5°	3419.4	2774.8	2142.2	1880.1	1743.5	1652.9	1595.0	1554.9	1527.4	1505.1	1497.7
30°	3550.8	2800.8	2071.7	1791.0	1658.8	1576.4	1527.4	1499.9	1476.2	1447.9	1442.7
32.5°	3675.5	2800.8	1981.1	1693.7	1574.9	1508.8	1479.9	1462.8	1436.1	1408.6	1401.2
35°	3800.3	2783.7	1874.1	1592.0	1497.7	1460.6	1459.1	1439.0	1398.2	1361.1	1351.4
37.5°	3931.7	2748.8	1753.9	1496.9	1434.6	1439.0	1451.6	1407.1	1349.2	1296.5	1282.4
40°	4080.2	2700.6	1629.1	1414.5	1381.8	1429.4	1431.6	1361.1	1248.2	1199.9	1187.3
42.5°	4254.7	2652.3	1513.3	1341.8	1340.3	1400.4	1393.7	1261.6	1194.0	1169.5	1162.8
45°	4484.1	2624.8	1403.4	1272.7	1307.6	1353.6	1329.1	1206.6	1178.4	1164.3	1158.3
47.5°	4845.8	2639.0	1302.4	1217.7	1274.9	1306.9	1208.8	1184.3	1164.3	1147.2	1141.3
50°	5298.7	2630.8	1220.7	1179.9	1237.8	1257.8	1154.6	1155.4	1145.0	1125.7	1116.8
52.5°	5639.5	2566.9	1168.0	1158.3	1205.1	1171.0	1120.5	1127.2	1122.0	1093.7	1084.1
55°	5968.5	2512.0	1141.3	1150.2	1181.4	1062.6	1080.4	1096.7	1091.5	1064.0	1059.6
57.5°	6377.6	2501.6	1124.9	1152.4	1161.3	1008.4	1041.8	1063.3	1059.6	1047.7	1045.5
60°	6878.8	2504.6	1110.1	1156.1	1139.0	968.3	1005.4	1032.9	1035.1	1032.9	1031.4
62.5°	7154.3	2423.6	1073.0	1145.7	1099.7	933.4	967.5	1007.6	1008.4	1012.8	1012.1
65°	6920.4	2181.6	1003.9	1109.3	1033.6	904.4	934.8	978.7	967.5	987.6	987.6
66°	6693.2	2042.0	969.7	1085.6	1005.4	893.3	924.5	963.8	949.7	977.2	977.2
67.5°	6229.1	1806.6	908.1	1035.1	965.3	877.7	912.6	939.3	920.0	960.8	957.9
70°	5381.1	1397.4	784.1	920.7	899.2	854.7	896.2	890.3	862.1	924.5	912.6
72.5°	4536.9	1061.8	629.7	770.7	799.0	825.7	873.2	827.9	792.3	836.1	810.1
75°	3520.3	798.2	497.5	599.2	675.0	780.4	845.7	755.9	704.7	700.2	686.1
77.5°	1903.1	548.0	394.3	457.4	536.1	724.0	827.2	678.7	601.4	583.6	572.5
80°	753.7	356.4	286.6	346.8	375.0	642.3	782.6	588.8	496.0	478.2	461.1
82.5°	311.1	210.9	184.9	232.4	244.3	549.5	702.4	482.6	383.1	530.2	562.8
85°	133.7	115.8	109.9	120.3	138.1	385.4	559.1	368.3	413.6	369.0	293.3
87.5°	40.1	49.0	46.8	46.0	50.5	92.1	297.8	204.9	303.7	115.1	86.1
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)