

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: P383065

Luminaire Tested: **GAN-SA4A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383065
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-SA4A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18244.3 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

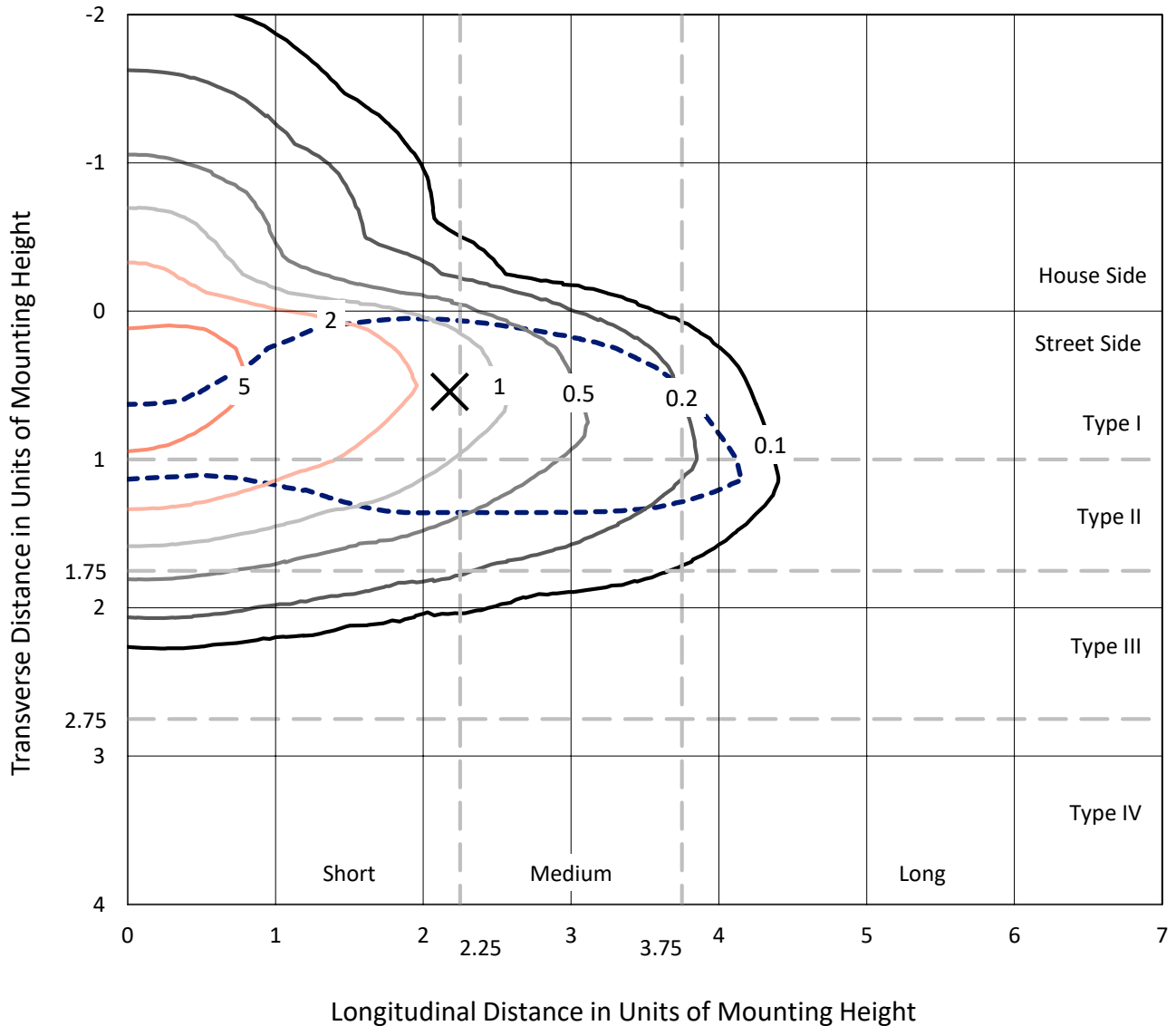
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

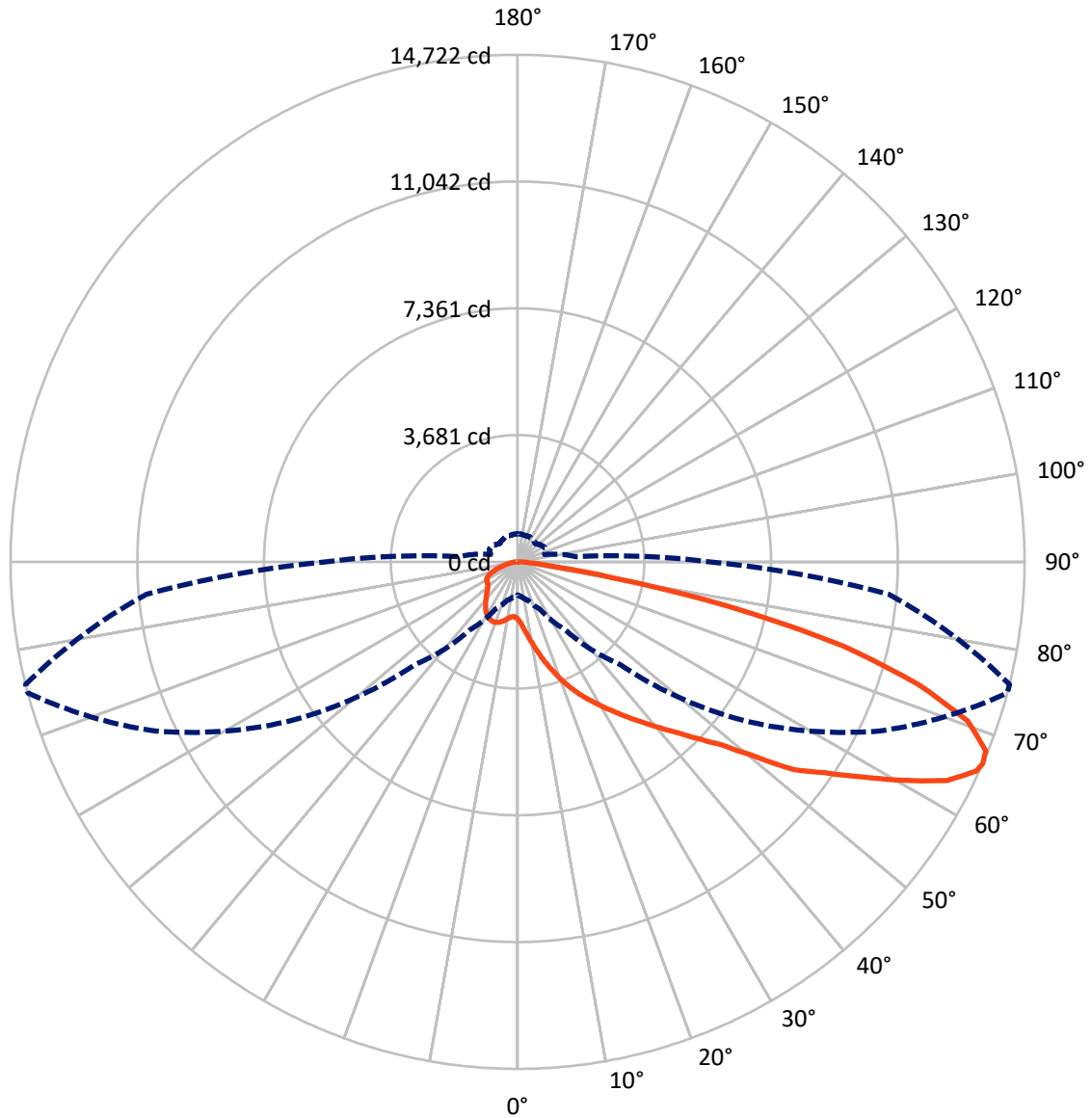
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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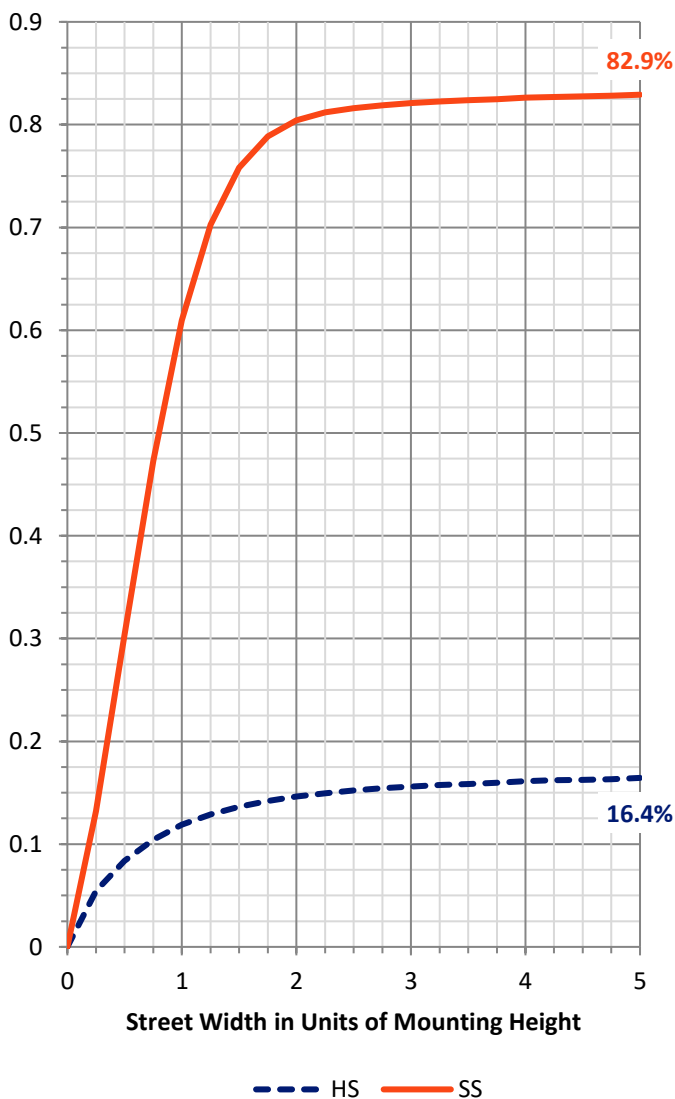
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3069.9	0.0	3069.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	15174.4	0.0	15174.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	18244.3	0.0	18244.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.5	1.1
10°-20°	795.6	4.4
20°-30°	1546.1	8.5
30°-40°	2523.6	13.8
40°-50°	3447.8	18.9
50°-60°	4016.0	22.0
60°-70°	3600.4	19.7
70°-80°	1819.5	10.0
80°-90°	293.8	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°	18244.3	100.0
0°-180°	18244.3	100.0

Coefficient of Utilization

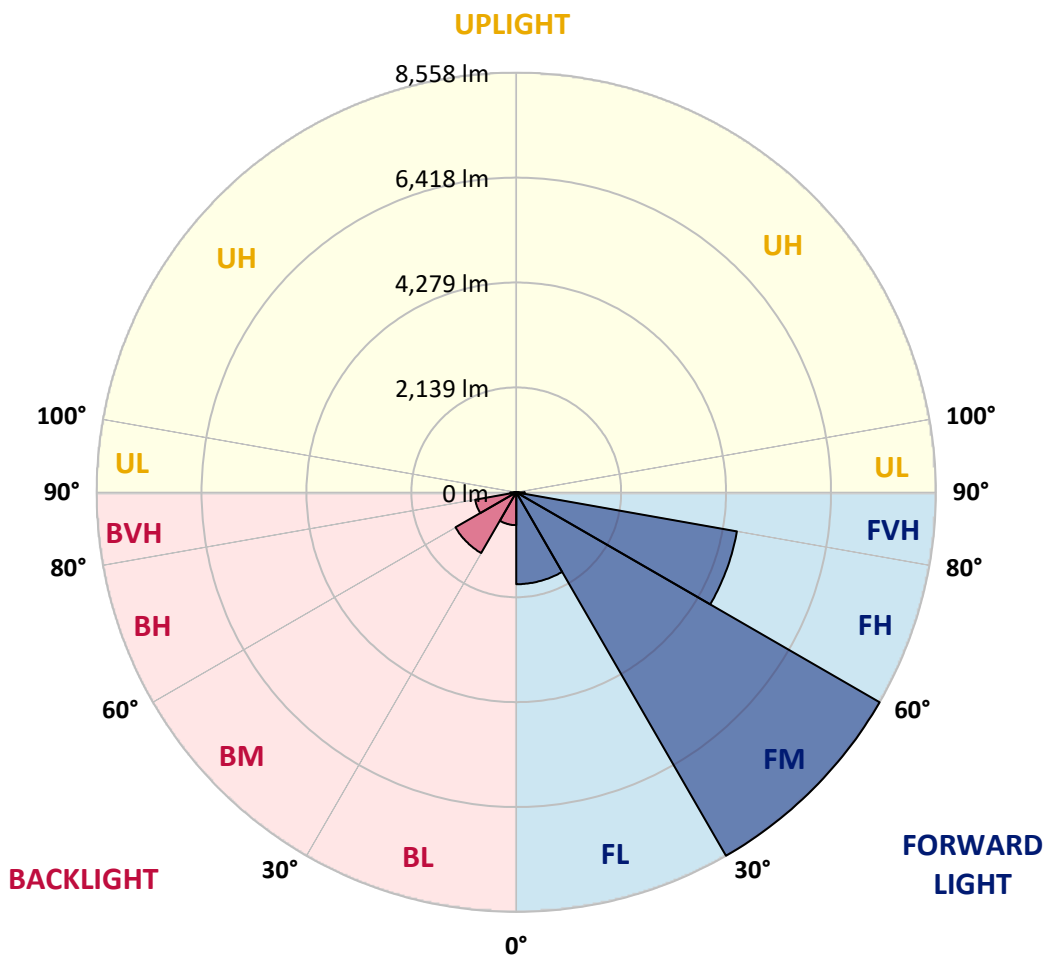


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.6	10.3			
FM (30°-60°)	8557.9	46.9			
FH (60°-80°)	4569.4	25.0			G2/5000
FVH (80°-90°)	173.5	1.0			G2/225
BL (0°-30°)	669.6	3.7	B2/1000		
BM (30°-60°)	1429.5	7.8	B2/2500		
BH (60°-80°)	850.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	120.3	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°	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2
2.5°	2211.8	2178.3	2175.3	2126.4	2115.2	2021.6	1952.9	1881.1	1799.3	1783.2	1718.8
5°	2841.0	2838.0	2795.2	2715.4	2652.8	2493.0	2335.0	2167.8	1984.5	1954.8	1809.8
7.5°	3407.2	3402.2	3369.4	3283.3	3192.9	2996.5	2771.1	2514.7	2217.4	2173.4	1933.1
10°	3837.0	3835.2	3824.0	3760.8	3684.1	3495.7	3246.7	2896.8	2488.1	2428.0	2087.3
12.5°	4169.0	4172.8	4180.1	4157.9	4121.4	3960.9	3705.7	3301.9	2776.7	2717.2	2258.9
15°	4393.8	4405.0	4443.4	4475.0	4494.2	4395.7	4148.6	3716.2	3100.0	3028.7	2449.0
17.5°	4507.2	4519.6	4585.8	4681.2	4769.2	4759.3	4562.9	4111.4	3410.3	3341.6	2653.4
20°	4605.1	4614.3	4688.7	4803.2	4958.7	5027.5	4917.3	4491.7	3750.3	3668.5	2870.2
22.5°	4888.8	4900.5	4922.8	4987.9	5125.4	5251.7	5198.4	4851.6	4061.8	3985.7	3075.8
25°	5436.2	5450.5	5402.2	5347.1	5373.1	5461.0	5471.0	5179.9	4377.7	4291.6	3296.9
27.5°	6095.9	6116.4	6034.0	5892.1	5768.2	5734.1	5722.4	5448.6	4679.3	4579.7	3515.6
30°	6741.9	6777.2	6670.1	6486.1	6258.8	6099.0	5980.7	5711.9	4976.7	4881.3	3721.8
32.5°	7373.0	7358.8	7203.4	7023.7	6757.4	6557.3	6271.2	5994.3	5311.1	5201.5	3926.8
35°	7805.3	7810.4	7666.0	7452.9	7199.0	7045.4	6660.2	6299.0	5652.4	5551.5	4159.7
37.5°	8173.3	8150.4	7986.8	7788.0	7569.4	7503.7	7115.3	6634.8	6022.2	5912.0	4407.5
40°	8295.9	8269.3	8162.1	8019.0	7843.8	7838.2	7617.7	7015.0	6440.3	6331.3	4686.8
42.5°	8221.6	8187.6	8143.6	8104.6	8050.6	8075.4	8089.7	7461.0	6899.9	6777.8	5010.1
45°	7947.2	7895.8	7926.8	8011.6	8128.7	8268.7	8515.8	7954.7	7414.6	7312.4	5389.8
47.5°	7525.4	7478.9	7575.6	7757.1	8075.4	8429.7	8919.0	8499.7	8029.0	7927.4	5930.5
50°	6932.0	6945.7	7083.8	7413.9	7895.1	8504.0	9415.7	9221.3	8922.1	8827.3	6668.2
52.5°	5958.4	5960.9	6349.8	6891.8	7575.6	8465.6	9691.4	10143.5	10141.7	10027.1	7370.6
55°	5054.1	5109.3	5417.0	6137.4	7057.8	8312.0	9884.0	10592.0	10942.5	10808.1	8025.3
57.5°	4170.9	4203.0	4494.8	5218.3	6318.9	7902.6	10081.6	11130.2	11865.4	11780.5	8839.1
60°	3166.2	3215.8	3517.4	4185.7	5373.7	7176.1	10100.1	11691.9	12968.5	12883.0	9747.7
62.5°	2055.1	2140.6	2423.0	3049.2	4230.3	6131.2	9669.1	12059.3	14014.0	13983.6	10554.2
65°	1181.1	1245.6	1441.9	1925.0	2918.5	4819.4	8644.0	11918.0	14657.5	14640.2	10855.8
66°	965.0	1005.2	1155.8	1504.4	2408.1	4232.2	8048.2	11620.1	14721.3	14722.0	10821.1
67.5°	771.8	789.7	857.2	1077.1	1777.0	3354.5	6983.4	10962.9	14642.1	14663.8	10597.6
70°	638.6	647.9	668.9	722.2	969.9	2022.9	4956.9	9255.3	13846.2	13862.9	9724.8
72.5°	572.9	578.5	586.6	594.0	684.4	1130.3	3027.5	7404.0	12139.7	12161.4	8395.0
75°	519.1	522.1	520.9	521.5	574.2	720.4	1564.5	5527.9	9815.9	9772.5	6430.9
77.5°	455.9	459.0	452.7	454.0	507.9	553.7	778.6	3869.8	6624.2	6318.2	3623.3
80°	385.3	387.7	385.3	389.6	442.2	418.1	452.7	2177.1	2929.1	2770.4	1288.3
82.5°	291.1	301.6	309.1	326.4	364.2	297.3	302.8	847.9	891.9	849.2	395.2
85°	127.6	155.5	232.9	249.7	273.8	178.4	198.8	345.6	362.9	351.8	143.7
87.5°	33.4	36.5	115.2	144.9	151.7	80.5	103.4	157.3	166.0	157.3	47.7
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°	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2	1666.2
2.5°	1684.7	1654.3	1599.8	1551.5	1515.0	1490.2	1465.4	1453.0	1445.7	1438.2	1439.4
5°	1738.5	1677.3	1583.7	1517.5	1480.3	1456.8	1444.4	1439.4	1436.4	1428.9	1428.9
7.5°	1819.7	1733.1	1604.2	1536.0	1507.0	1489.0	1481.5	1479.1	1475.4	1466.7	1467.9
10°	1922.0	1800.5	1646.9	1580.6	1554.0	1534.2	1523.6	1519.9	1513.1	1503.2	1504.4
12.5°	2042.0	1884.1	1703.2	1633.9	1601.7	1575.1	1557.7	1547.2	1535.5	1522.4	1523.1
15°	2173.4	1975.2	1764.0	1681.6	1637.7	1600.5	1572.6	1554.7	1536.0	1519.9	1519.4
17.5°	2306.5	2063.1	1810.5	1707.6	1648.2	1599.2	1561.5	1533.6	1510.7	1490.8	1489.0
20°	2450.2	2142.5	1836.5	1705.1	1628.3	1570.1	1519.9	1485.3	1459.8	1440.1	1436.9
22.5°	2596.4	2216.7	1840.8	1679.8	1584.4	1513.1	1460.5	1422.1	1396.1	1375.6	1368.2
25°	2730.2	2274.4	1822.9	1630.9	1523.1	1446.2	1394.8	1355.8	1334.7	1310.6	1303.1
27.5°	2852.2	2314.6	1786.9	1568.3	1454.3	1378.7	1330.4	1297.0	1274.1	1255.4	1249.3
30°	2961.9	2336.3	1728.0	1493.9	1383.7	1315.0	1274.1	1251.2	1231.3	1207.8	1203.5
32.5°	3065.9	2336.3	1652.5	1412.8	1313.7	1258.6	1234.4	1220.1	1197.9	1175.0	1168.7
35°	3170.0	2322.1	1563.3	1327.9	1249.3	1218.3	1217.1	1200.4	1166.3	1135.3	1127.3
37.5°	3279.6	2292.9	1463.0	1248.6	1196.7	1200.4	1210.9	1173.7	1125.4	1081.4	1069.7
40°	3403.5	2252.7	1358.9	1179.9	1152.7	1192.3	1194.2	1135.3	1041.2	1000.9	990.4
42.5°	3549.0	2212.4	1262.2	1119.3	1118.0	1168.2	1162.6	1052.3	995.9	975.5	969.9
45°	3740.4	2189.5	1170.6	1061.6	1090.7	1129.1	1108.7	1006.4	983.0	971.1	966.2
47.5°	4042.1	2201.2	1086.4	1015.8	1063.5	1090.1	1008.3	987.9	971.1	957.0	951.9
50°	4419.9	2194.4	1018.3	984.2	1032.5	1049.2	963.1	963.8	955.1	939.0	931.5
52.5°	4704.1	2141.2	974.3	966.2	1005.2	976.7	934.6	940.2	935.8	912.4	904.3
55°	4978.6	2095.3	951.9	959.4	985.4	886.4	901.2	914.8	910.5	887.6	883.9
57.5°	5319.8	2086.7	938.3	961.3	968.7	841.1	868.9	886.9	883.9	874.0	872.1
60°	5737.9	2089.2	926.0	964.3	950.1	807.7	838.7	861.6	863.5	861.6	860.3
62.5°	5967.7	2021.6	895.0	955.7	917.3	778.6	807.1	840.5	841.1	844.8	844.2
65°	5772.6	1819.7	837.4	925.3	862.1	754.4	779.8	816.3	807.1	823.8	823.8
66°	5583.0	1703.2	808.9	905.6	838.7	745.1	771.1	803.9	792.2	815.1	815.1
67.5°	5196.0	1507.0	757.5	863.5	805.2	732.1	761.2	783.5	767.4	801.5	799.0
70°	4488.7	1165.6	654.0	768.1	750.1	712.9	747.6	742.6	719.1	771.1	761.2
72.5°	3784.4	885.7	525.2	643.0	666.4	688.8	728.4	690.6	660.8	697.4	675.7
75°	2936.4	665.9	415.0	499.9	563.0	651.0	705.5	630.6	587.8	584.1	572.3
77.5°	1587.5	457.1	328.9	381.6	447.2	603.9	690.0	566.1	501.7	486.8	477.5
80°	628.7	297.3	239.0	289.2	312.8	535.7	652.8	491.2	413.7	398.9	384.6
82.5°	259.5	175.9	154.3	193.9	203.7	458.3	585.9	402.6	319.6	442.2	469.5
85°	111.5	96.6	91.7	100.3	115.2	321.5	466.4	307.2	345.0	307.8	244.6
87.5°	33.4	40.9	39.0	38.4	42.1	76.8	248.4	170.9	253.3	96.0	71.8
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)