

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: P318027

Luminaire Tested: **GAN-SA3A-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12714 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

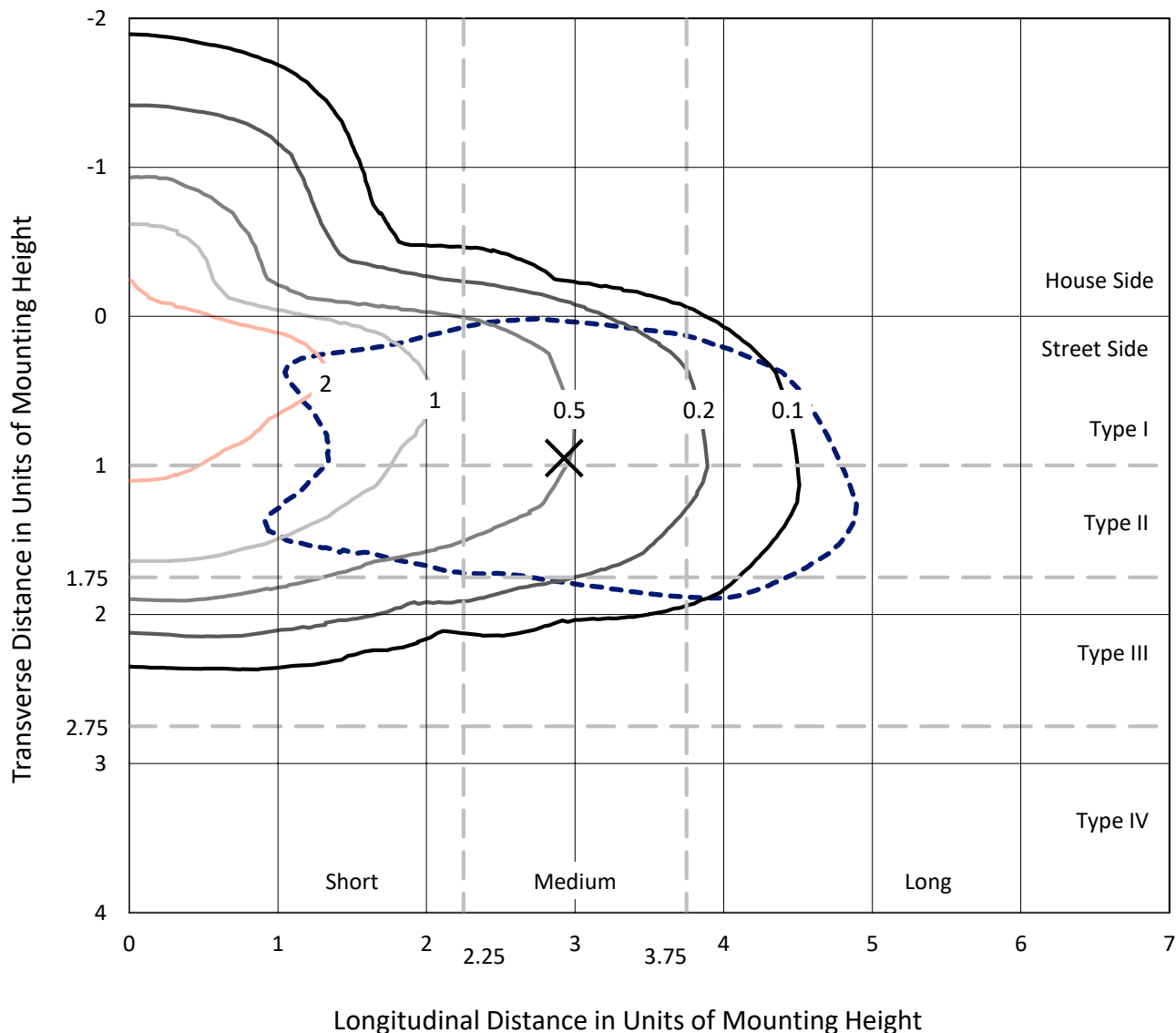
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318027
 CATALOG NUMBER: GAN-SA3A-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

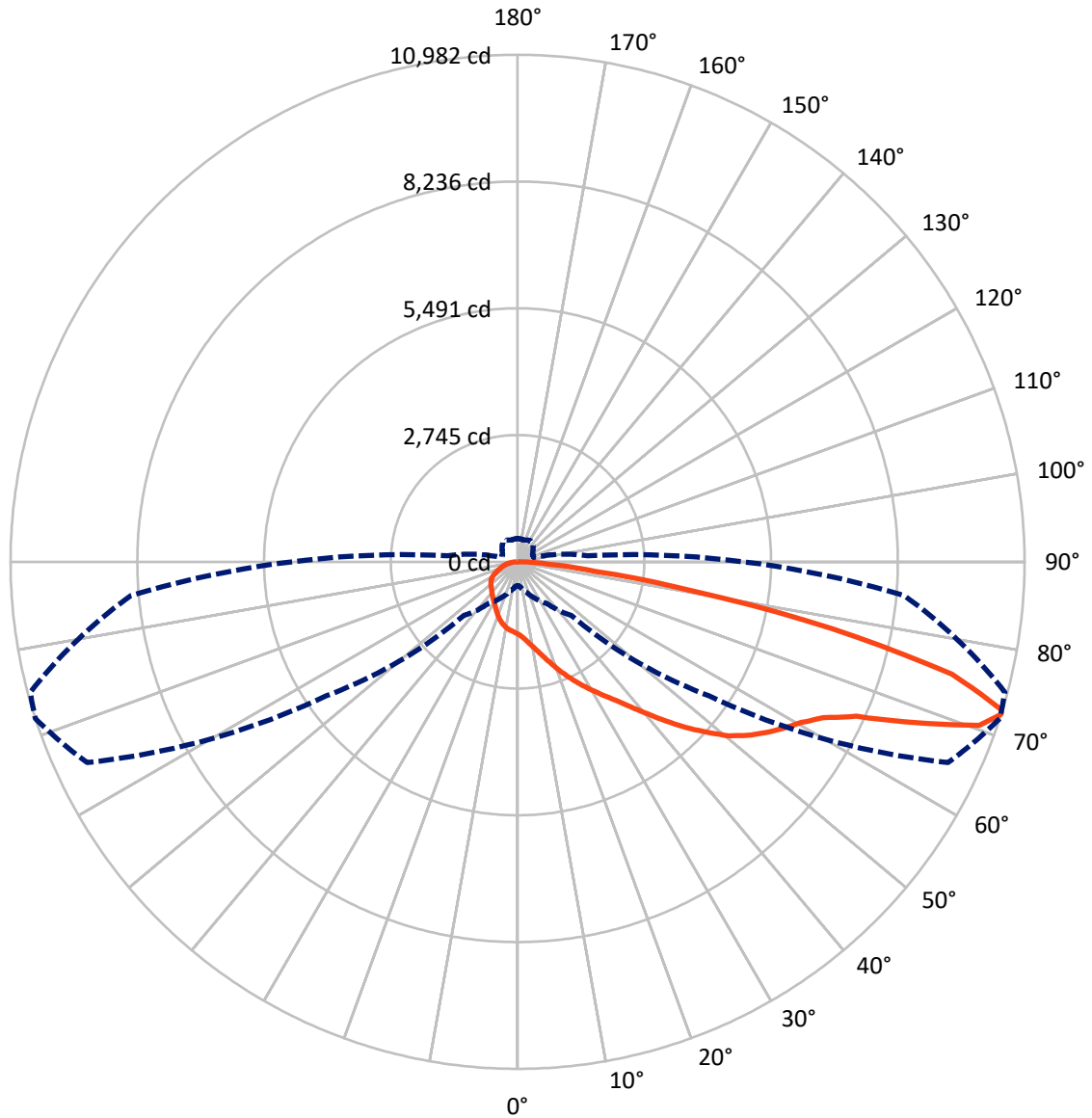
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P318027
CATALOG NUMBER: GAN-SA3A-730-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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 CATALOG NUMBER: GAN-SA3A-730-U-T2

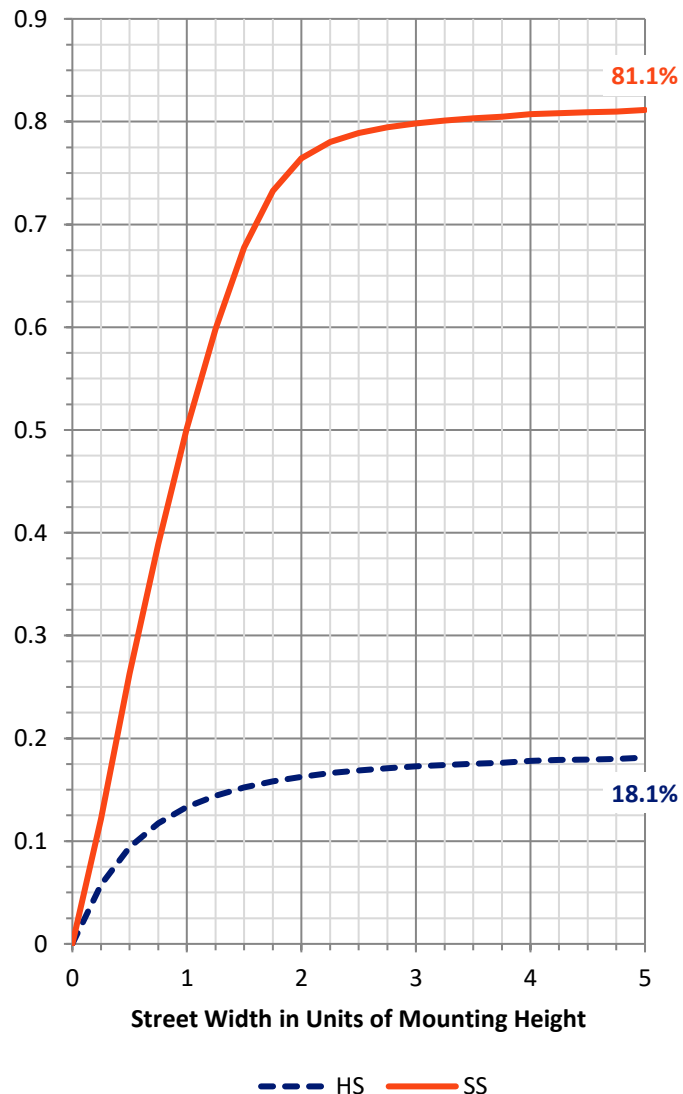
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2358.5	0.0	2358.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10355.5	0.0	10355.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	12714.0	0.0	12714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	1.2
10°-20°	506.5	4.0
20°-30°	887.5	7.0
30°-40°	1315.9	10.4
40°-50°	1924.6	15.1
50°-60°	2648.3	20.8
60°-70°	2948.3	23.2
70°-80°	1997.8	15.7
80°-90°	328.3	2.6
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°	12714.0	100.0
0°-180°	12714.0	100.0

Coefficient of Utilization

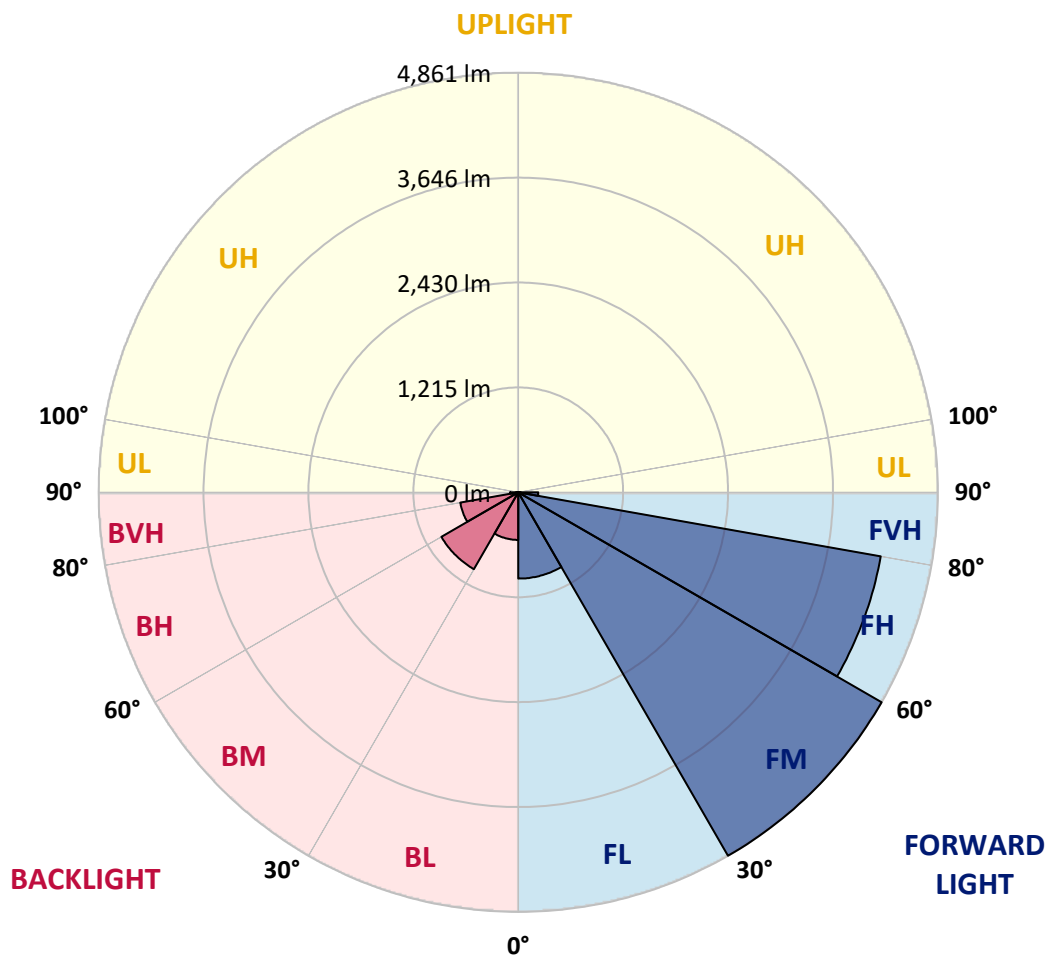


REPORT NUMBER: P318027
 CATALOG NUMBER: GAN-SA3A-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.4	7.9			
FM (30°-60°)	4860.7	38.2			
FH (60°-80°)	4263.7	33.5			G2/5000
FVH (80°-90°)	231.6	1.8			G3/500
BL (0°-30°)	551.3	4.3	B2/1000		
BM (30°-60°)	1028.1	8.1	B2/2500		
BH (60°-80°)	682.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	96.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





REPORT NUMBER: P318027

CATALOG NUMBER: GAN-SA3A-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2
2.5°	1727.9	1725.3	1716.1	1716.1	1698.5	1683.7	1655.6	1636.8	1614.5	1606.6	1580.4
5°	1895.1	1896.0	1884.6	1876.7	1850.9	1819.4	1771.7	1728.3	1685.0	1667.5	1613.6
7.5°	2035.6	2033.9	2030.8	2024.3	2000.2	1967.8	1903.4	1839.1	1775.2	1748.9	1656.1
10°	2125.8	2129.8	2132.4	2135.4	2125.4	2102.2	2041.3	1963.0	1879.3	1843.5	1706.9
12.5°	2171.3	2178.3	2190.6	2211.6	2228.3	2225.6	2181.4	2098.2	1998.9	1953.8	1770.3
15°	2198.0	2207.2	2226.5	2264.1	2311.0	2337.7	2325.9	2250.6	2139.8	2084.2	1847.8
17.5°	2214.7	2222.1	2251.9	2302.2	2371.8	2442.8	2473.8	2410.8	2299.2	2235.7	1936.7
20°	2226.1	2231.8	2269.0	2328.1	2418.2	2531.2	2617.9	2602.1	2474.7	2392.4	2029.5
22.5°	2251.5	2256.3	2291.7	2351.3	2451.1	2596.9	2756.6	2780.3	2659.9	2566.6	2128.9
25°	2322.4	2322.4	2352.1	2393.7	2487.4	2653.8	2874.0	2978.6	2849.0	2740.4	2220.8
27.5°	2457.6	2456.3	2467.3	2481.7	2552.6	2711.5	2978.6	3153.7	3045.1	2926.5	2310.1
30°	2617.9	2626.6	2627.9	2620.9	2654.2	2783.8	3075.3	3338.4	3242.6	3114.7	2401.6
32.5°	2824.1	2829.7	2823.2	2800.0	2795.2	2886.2	3170.3	3531.9	3456.2	3311.3	2485.2
35°	3085.8	3074.9	3054.3	3007.0	2962.0	3023.2	3278.9	3725.4	3696.1	3549.0	2600.4
37.5°	3366.5	3366.9	3341.5	3234.2	3172.1	3198.4	3428.6	3944.7	3986.3	3831.8	2747.9
40°	3591.5	3603.3	3619.0	3478.1	3397.5	3433.9	3619.0	4199.1	4329.5	4167.1	2940.1
42.5°	3748.6	3762.2	3806.9	3718.4	3634.8	3702.2	3843.2	4470.5	4714.8	4554.1	3165.1
45°	3915.0	3922.4	3953.9	3915.9	3862.4	4014.4	4095.8	4751.6	5122.4	4966.5	3416.8
47.5°	4090.1	4098.0	4130.4	4105.0	4077.0	4305.9	4359.3	5016.4	5512.8	5419.6	3685.6
50°	4306.3	4311.6	4342.2	4296.3	4305.0	4525.7	4594.8	5259.4	5922.2	5826.7	3955.3
52.5°	4601.4	4602.7	4645.2	4603.6	4562.4	4686.8	4797.5	5488.3	6243.0	6198.0	4224.9
55°	4832.5	4846.6	4985.8	4977.0	4953.4	4833.0	4966.9	5706.3	6529.3	6550.8	4511.2
57.5°	4685.0	4739.7	5021.7	5220.4	5413.9	5196.8	5195.9	5951.9	6795.5	6897.1	4826.0
60°	4103.2	4177.6	4593.1	5033.9	5639.4	5829.8	5671.3	6251.8	7064.3	7240.3	5220.4
62.5°	2930.4	3053.0	3616.0	4319.9	5330.3	6249.2	6638.8	6727.7	7429.8	7637.8	5733.0
65°	1481.4	1574.2	2046.1	2894.1	4258.6	5975.1	7690.3	7769.5	8065.0	8249.8	6522.3
67.5°	900.1	935.1	1165.3	1609.7	2610.9	4654.4	8033.5	9506.2	9294.3	9392.4	7647.8
70°	663.2	689.1	832.6	1069.0	1501.6	2731.2	6980.2	10745.5	10606.3	10595.4	8479.6
72°	516.6	535.4	662.3	863.7	1097.9	1638.6	5059.3	10288.0	10981.9	10926.7	8403.4
72.5°	489.9	506.5	622.1	812.9	1037.5	1485.4	4548.9	9979.4	10954.8	10929.8	8304.9
75°	385.7	397.5	460.5	628.6	812.1	842.7	2492.7	7733.7	9718.1	10122.1	7469.7
77.5°	319.1	320.9	354.2	457.5	633.0	595.8	1224.4	5365.8	6958.8	7403.1	5291.3
80°	260.0	262.2	278.0	320.9	478.9	440.8	581.4	3085.4	3896.2	3901.0	2516.3
82.5°	207.1	207.5	225.0	234.6	344.1	315.2	333.1	1448.6	1702.5	1637.7	904.4
85°	145.8	142.7	219.8	192.6	225.0	202.2	183.9	573.5	703.9	673.3	283.2
87.5°	48.6	50.3	97.6	124.8	131.3	114.7	81.9	219.8	265.7	263.5	89.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318027
 CATALOG NUMBER: GAN-SA3A-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2
2.5°	1572.0	1558.0	1537.4	1514.7	1496.7	1478.4	1464.8	1457.8	1449.9	1443.3	1451.2
5°	1588.7	1562.4	1518.6	1475.7	1444.2	1416.2	1396.0	1385.5	1375.9	1369.3	1370.2
7.5°	1615.8	1573.3	1499.8	1437.2	1393.4	1363.2	1342.6	1335.6	1329.5	1327.8	1329.9
10°	1644.7	1582.1	1474.8	1391.7	1341.8	1316.8	1307.6	1312.4	1316.8	1320.8	1325.1
12.5°	1677.5	1590.0	1438.5	1338.3	1295.8	1286.2	1295.4	1316.4	1331.7	1340.9	1346.6
15°	1720.4	1597.0	1396.5	1284.9	1256.4	1267.3	1298.4	1334.8	1361.5	1378.5	1381.2
17.5°	1759.8	1596.5	1342.6	1231.0	1224.4	1256.4	1303.2	1354.5	1390.4	1414.4	1419.3
20°	1800.5	1584.7	1280.0	1178.5	1192.0	1244.6	1305.4	1367.2	1410.5	1438.5	1445.1
22.5°	1838.6	1564.2	1211.3	1130.8	1164.9	1228.8	1297.1	1359.7	1403.1	1425.8	1432.8
25°	1864.5	1528.3	1141.7	1090.5	1140.8	1209.6	1270.0	1320.3	1352.7	1364.1	1365.8
27.5°	1877.6	1481.4	1076.0	1055.5	1115.9	1178.0	1219.6	1244.6	1253.8	1252.9	1251.1
30°	1879.3	1419.7	1019.6	1027.0	1087.0	1131.6	1151.3	1146.5	1134.7	1114.6	1116.3
32.5°	1873.7	1350.1	972.3	999.9	1050.2	1075.2	1076.0	1052.8	1021.3	989.4	980.6
35°	1875.4	1281.8	930.7	969.2	1005.6	1016.5	1006.4	972.3	929.4	888.2	879.5
37.5°	1894.7	1222.3	894.8	933.8	956.1	958.7	944.3	908.4	876.9	836.6	833.1
40°	1940.6	1179.8	860.7	893.9	906.6	907.9	887.4	862.0	864.6	843.1	842.7
42.5°	2023.4	1161.4	830.5	852.3	860.2	862.8	847.1	830.9	853.7	839.6	834.8
45°	2130.2	1165.8	805.1	811.6	826.1	838.3	828.7	809.0	817.8	756.9	736.8
47.5°	2253.6	1193.8	784.9	776.6	801.6	824.8	809.9	780.1	749.0	688.6	677.2
50°	2398.1	1237.1	766.5	742.0	774.9	806.4	791.5	749.0	702.2	672.9	668.9
52.5°	2548.7	1290.1	748.1	703.9	741.1	792.4	784.9	742.0	684.2	655.3	650.1
55°	2719.4	1343.5	724.9	659.7	704.8	785.8	781.9	716.6	670.7	654.5	650.5
57.5°	2931.7	1404.4	694.3	613.8	670.7	762.2	749.9	701.3	656.7	644.4	643.1
60°	3208.4	1494.1	650.1	564.7	629.1	725.8	723.2	679.0	634.3	625.6	623.8
62.5°	3623.4	1642.5	589.2	515.7	582.7	664.1	688.2	648.8	610.7	610.3	611.1
65°	4266.9	1865.8	523.1	472.8	535.8	612.0	647.5	617.7	586.6	595.4	596.7
67.5°	5012.9	2051.0	458.3	430.8	488.1	562.5	610.7	586.6	554.7	577.4	577.9
70°	5261.1	1885.5	401.4	389.2	438.6	514.8	570.9	552.5	520.1	542.8	540.6
72°	4896.0	1522.1	364.7	357.7	401.4	475.4	535.4	520.5	488.6	503.9	498.2
72.5°	4780.9	1451.2	355.5	349.8	391.4	465.3	526.2	512.6	480.7	493.8	488.6
75°	4264.8	1260.3	305.6	306.9	341.5	416.3	474.5	470.2	437.3	438.6	436.9
77.5°	3093.3	924.1	257.4	266.2	290.7	366.0	422.4	419.8	383.9	377.4	376.0
80°	1435.4	471.5	209.7	213.6	239.0	306.0	360.3	356.8	327.9	319.6	314.8
82.5°	491.6	224.1	157.6	160.2	185.2	246.5	312.6	310.4	286.3	270.1	260.0
85°	175.5	111.6	110.3	107.7	132.2	193.9	272.3	260.5	225.0	191.7	190.9
87.5°	56.9	47.7	56.9	56.5	77.0	131.3	197.9	168.5	163.3	135.7	133.1
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)