

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: P317416

Luminaire Tested: **GAN-SA2D-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317416
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-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 15062 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

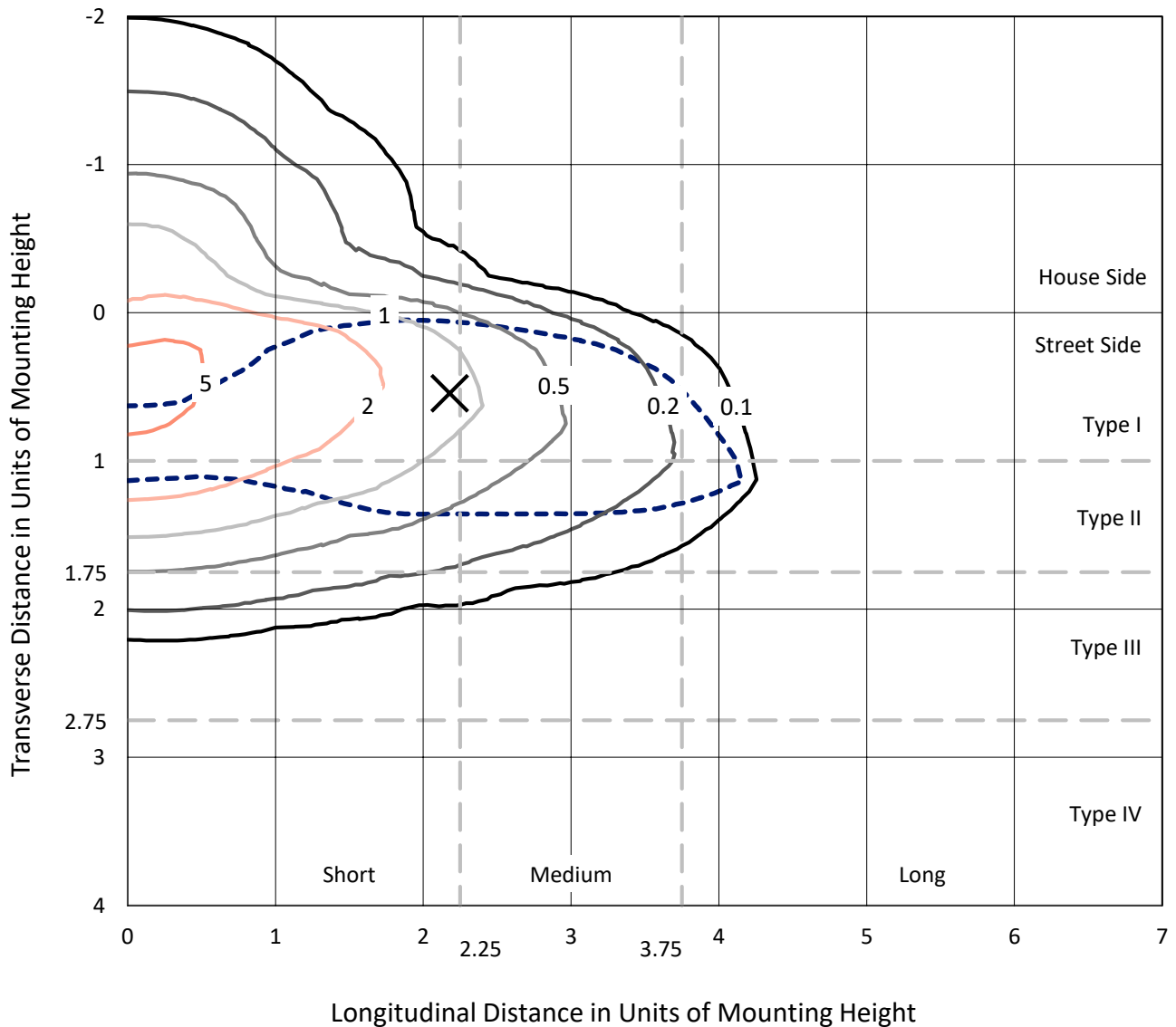
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

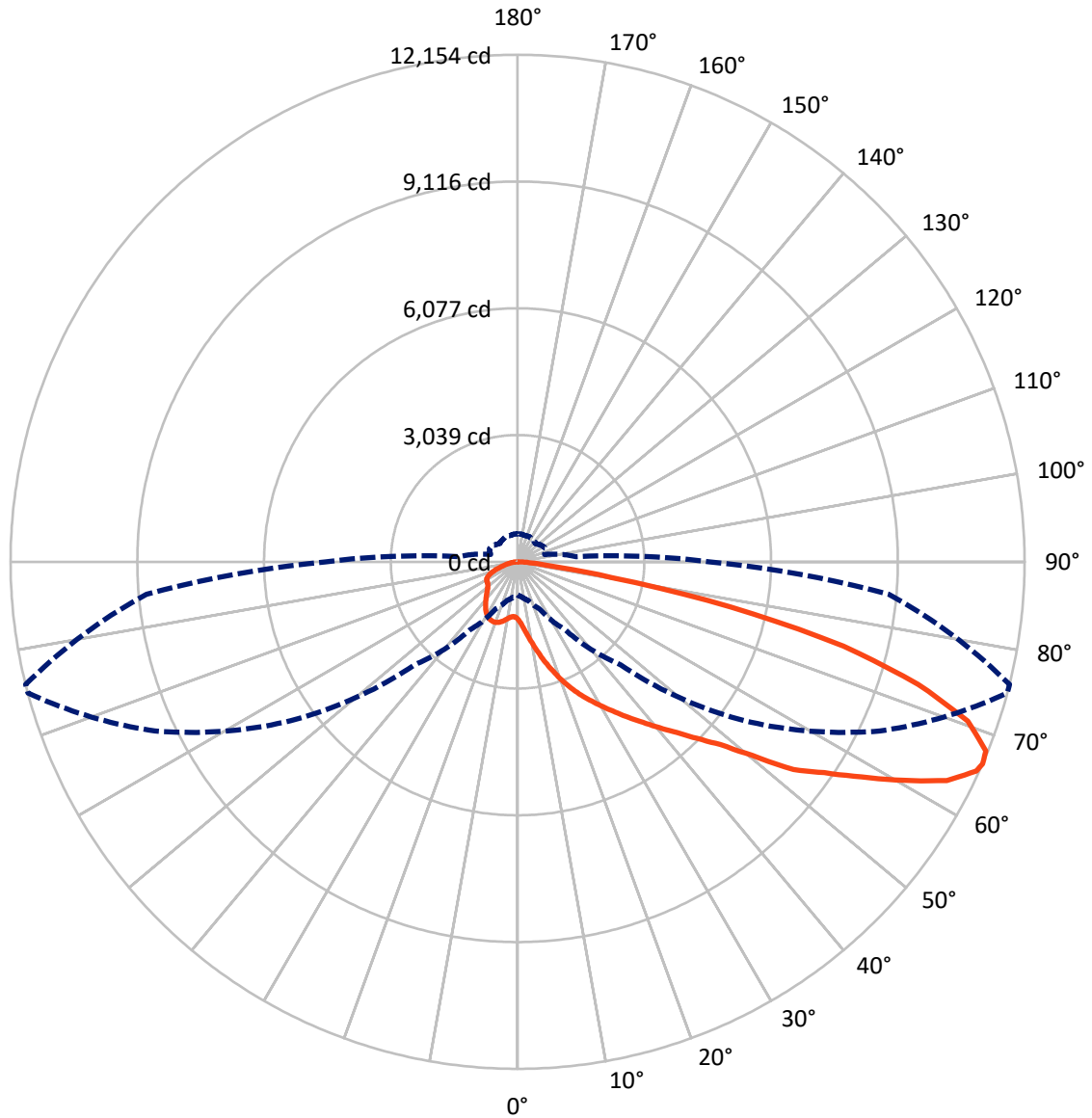
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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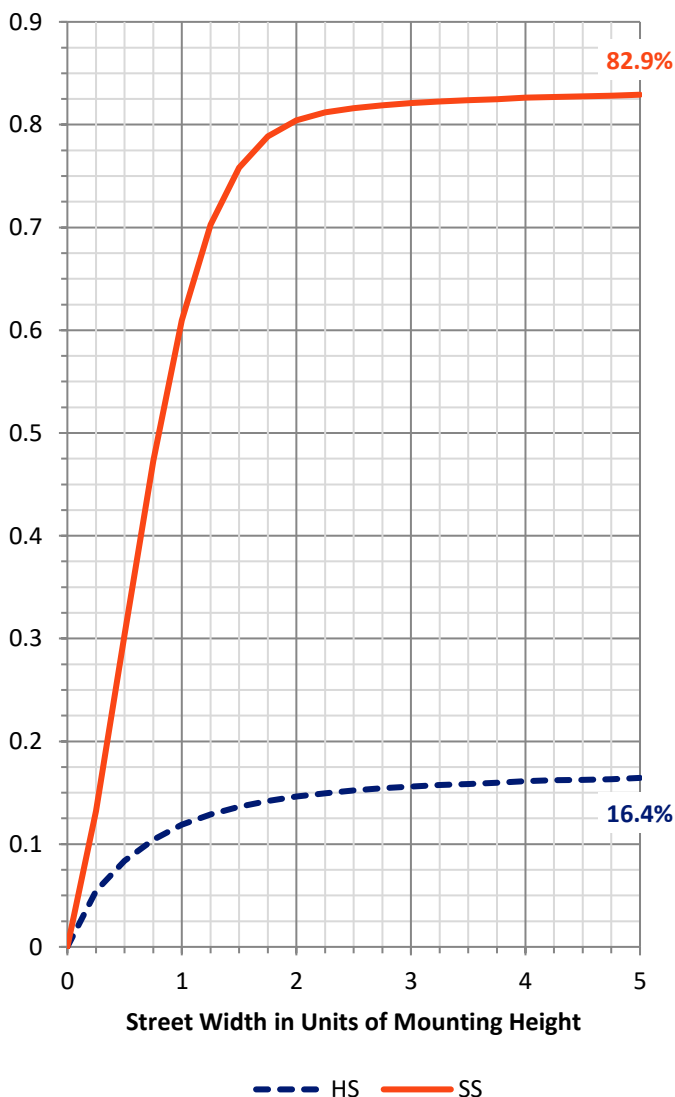
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2534.4	0.0	2534.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	12527.6	0.0	12527.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	15062.0	0.0	15062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	1.1
10°-20°	656.8	4.4
20°-30°	1276.4	8.5
30°-40°	2083.4	13.8
40°-50°	2846.4	18.9
50°-60°	3315.5	22.0
60°-70°	2972.4	19.7
70°-80°	1502.1	10.0
80°-90°	242.6	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°	15062.0	100.0
0°-180°	15062.0	100.0

Coefficient of Utilization



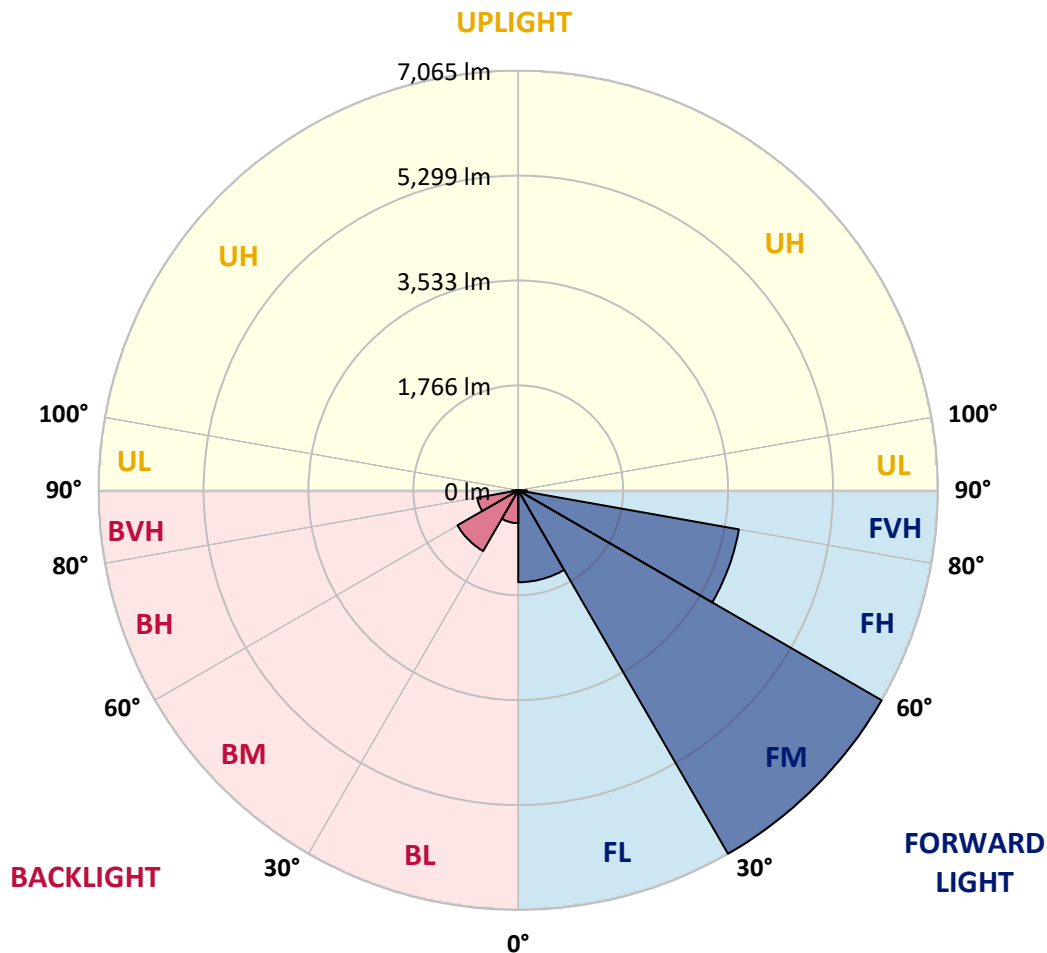
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.8	10.3			
FM (30°-60°)	7065.1	46.9			
FH (60°-80°)	3772.4	25.0			G2/5000
FVH (80°-90°)	143.3	1.0			G2/225
BL (0°-30°)	552.8	3.7	B2/1000		
BM (30°-60°)	1180.2	7.8	B2/2500		
BH (60°-80°)	702.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	99.3	0.7			G1/100
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°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1826.0	1798.4	1795.8	1755.4	1746.2	1669.0	1612.2	1552.9	1485.4	1472.1	1419.0
5°	2345.5	2343.0	2307.7	2241.7	2190.1	2058.1	1927.7	1789.7	1638.3	1613.8	1494.1
7.5°	2812.9	2808.8	2781.7	2710.6	2635.9	2473.9	2287.7	2076.0	1830.6	1794.3	1595.9
10°	3167.7	3166.2	3157.0	3104.8	3041.4	2886.0	2680.4	2391.5	2054.0	2004.4	1723.2
12.5°	3441.8	3444.9	3451.0	3432.6	3402.4	3270.0	3059.3	2725.9	2292.3	2243.2	1864.9
15°	3627.4	3636.6	3668.3	3694.4	3710.3	3629.0	3424.9	3068.0	2559.2	2500.4	2021.8
17.5°	3721.0	3731.2	3785.9	3864.7	3937.3	3929.1	3767.0	3394.3	2815.4	2758.7	2190.6
20°	3801.8	3809.5	3870.8	3965.4	4093.8	4150.5	4059.5	3708.2	3096.2	3028.7	2369.5
22.5°	4036.0	4045.7	4064.1	4117.8	4231.3	4335.6	4291.7	4005.3	3353.4	3290.5	2539.3
25°	4488.0	4499.8	4459.9	4414.4	4435.9	4508.5	4516.7	4276.3	3614.1	3543.1	2721.9
27.5°	5032.6	5049.5	4981.5	4864.4	4762.1	4734.0	4724.3	4498.2	3863.2	3780.8	2902.4
30°	5565.9	5595.1	5506.6	5354.7	5167.1	5035.1	4937.5	4715.6	4108.6	4029.9	3072.6
32.5°	6087.0	6075.2	5946.9	5798.6	5578.7	5413.5	5177.3	4948.7	4384.7	4294.2	3241.9
35°	6443.9	6448.0	6328.8	6152.9	5943.3	5816.5	5498.4	5200.3	4666.5	4583.1	3434.1
37.5°	6747.6	6728.7	6593.7	6429.6	6249.1	6194.9	5874.3	5477.5	4971.7	4880.7	3638.7
40°	6848.9	6826.9	6738.4	6620.3	6475.6	6471.0	6289.0	5791.4	5316.9	5226.9	3869.3
42.5°	6787.5	6759.4	6723.1	6690.9	6646.4	6666.8	6678.6	6159.6	5696.3	5595.6	4136.2
45°	6561.0	6518.5	6544.1	6614.2	6710.8	6826.4	7030.4	6567.1	6121.2	6036.9	4449.7
47.5°	6212.8	6174.4	6254.2	6404.0	6666.8	6959.3	7363.3	7017.1	6628.5	6544.6	4896.1
50°	5722.9	5734.1	5848.2	6120.7	6518.0	7020.7	7773.4	7612.8	7365.8	7287.6	5505.1
52.5°	4919.1	4921.1	5242.2	5689.7	6254.2	6989.0	8000.9	8374.2	8372.7	8278.1	6084.9
55°	4172.5	4218.0	4472.2	5066.9	5826.7	6862.2	8159.9	8744.4	9033.8	8922.9	6625.4
57.5°	3443.4	3469.9	3710.8	4308.0	5216.7	6524.2	8323.1	9188.8	9795.7	9725.7	7297.3
60°	2614.0	2654.9	2903.9	3455.6	4436.4	5924.4	8338.4	9652.5	10706.4	10635.8	8047.4
62.5°	1696.6	1767.2	2000.4	2517.3	3492.4	5061.7	7982.5	9955.8	11569.5	11544.5	8713.2
65°	975.1	1028.3	1190.4	1589.2	2409.4	3978.7	7136.2	9839.2	12100.8	12086.5	8962.2
66°	796.7	829.9	954.2	1242.0	1988.1	3494.0	6644.3	9593.2	12153.5	12154.0	8933.6
67.5°	637.1	652.0	707.7	889.2	1467.0	2769.4	5765.3	9050.7	12088.0	12105.9	8749.0
70°	527.2	534.9	552.2	596.2	800.8	1670.0	4092.2	7640.9	11431.0	11444.8	8028.5
72.5°	473.0	477.6	484.2	490.4	565.0	933.2	2499.4	6112.5	10022.2	10040.1	6930.7
75°	428.5	431.1	430.0	430.5	474.0	594.7	1291.6	4563.7	8103.7	8067.9	5309.2
77.5°	376.3	378.9	373.8	374.8	419.3	457.1	642.8	3194.8	5468.8	5216.2	2991.3
80°	318.1	320.1	318.1	321.6	365.1	345.2	373.8	1797.4	2418.1	2287.2	1063.6
82.5°	240.3	249.0	255.2	269.5	300.7	245.4	250.0	700.0	736.3	701.0	326.2
85°	105.3	128.3	192.3	206.1	226.0	147.3	164.1	285.3	299.6	290.4	118.6
87.5°	27.6	30.2	95.1	119.7	125.3	66.5	85.4	129.9	137.0	129.9	39.4
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°	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1390.8	1365.8	1320.8	1280.9	1250.7	1230.3	1209.8	1199.6	1193.5	1187.3	1188.4
5°	1435.3	1384.7	1307.5	1252.8	1222.1	1202.7	1192.4	1188.4	1185.8	1179.7	1179.7
7.5°	1502.3	1430.7	1324.4	1268.1	1244.1	1229.3	1223.1	1221.1	1218.0	1210.8	1211.9
10°	1586.7	1486.5	1359.6	1304.9	1282.9	1266.6	1257.9	1254.8	1249.2	1241.0	1242.0
12.5°	1685.9	1555.5	1406.2	1348.9	1322.3	1300.3	1286.0	1277.3	1267.6	1256.9	1257.4
15°	1794.3	1630.7	1456.3	1388.3	1352.0	1321.3	1298.3	1283.5	1268.1	1254.8	1254.3
17.5°	1904.2	1703.3	1494.6	1409.8	1360.7	1320.3	1289.1	1266.1	1247.2	1230.8	1229.3
20°	2022.9	1768.7	1516.1	1407.7	1344.3	1296.2	1254.8	1226.2	1205.2	1188.9	1186.3
22.5°	2143.5	1830.1	1519.7	1386.7	1308.0	1249.2	1205.7	1174.0	1152.6	1135.7	1129.5
25°	2254.0	1877.6	1504.9	1346.4	1257.4	1194.0	1151.5	1119.3	1101.9	1082.0	1075.9
27.5°	2354.7	1910.9	1475.2	1294.7	1200.6	1138.2	1098.4	1070.7	1051.8	1036.5	1031.4
30°	2445.2	1928.8	1426.6	1233.3	1142.3	1085.6	1051.8	1032.9	1016.5	997.1	993.5
32.5°	2531.1	1928.8	1364.3	1166.4	1084.5	1039.0	1019.1	1007.3	988.9	970.0	964.9
35°	2617.0	1917.0	1290.6	1096.3	1031.4	1005.8	1004.8	991.0	962.9	937.3	930.6
37.5°	2707.5	1893.0	1207.8	1030.9	987.9	991.0	999.7	969.0	929.1	892.8	883.1
40°	2809.8	1859.7	1121.9	974.1	951.6	984.3	985.9	937.3	859.6	826.3	817.6
42.5°	2930.0	1826.5	1042.1	924.0	923.0	964.4	959.8	868.8	822.2	805.4	800.8
45°	3088.0	1807.6	966.4	876.4	900.5	932.2	915.3	830.9	811.5	801.8	797.7
47.5°	3337.0	1817.3	896.9	838.6	878.0	900.0	832.5	815.6	801.8	790.0	785.9
50°	3648.9	1811.7	840.6	812.5	852.4	866.2	795.1	795.6	788.5	775.2	769.1
52.5°	3883.6	1767.7	804.3	797.7	829.9	806.4	771.6	776.2	772.6	753.2	746.6
55°	4110.1	1729.9	785.9	792.1	813.5	731.7	744.0	755.2	751.7	732.7	729.7
57.5°	4391.9	1722.7	774.7	793.6	799.7	694.4	717.4	732.2	729.7	721.5	720.0
60°	4737.0	1724.7	764.5	796.2	784.4	666.8	692.4	711.3	712.8	711.3	710.2
62.5°	4926.7	1669.0	738.9	789.0	757.3	642.8	666.3	693.9	694.4	697.5	697.0
65°	4765.7	1502.3	691.3	763.9	711.8	622.8	643.8	673.9	666.3	680.1	680.1
66°	4609.2	1406.2	667.8	747.6	692.4	615.1	636.6	663.7	654.0	672.9	672.9
67.5°	4289.6	1244.1	625.4	712.8	664.7	604.4	628.4	646.8	633.5	661.7	659.6
70°	3705.7	962.3	540.0	634.1	619.2	588.6	617.2	613.1	593.7	636.6	628.4
72.5°	3124.3	731.2	433.6	530.8	550.2	568.6	601.3	570.1	545.6	575.8	557.9
75°	2424.3	549.7	342.6	412.7	464.8	537.4	582.4	520.5	485.3	482.2	472.5
77.5°	1310.6	377.4	271.5	315.0	369.2	498.6	569.6	467.4	414.2	401.9	394.2
80°	519.0	245.4	197.4	238.8	258.2	442.3	539.0	405.5	341.6	329.3	317.5
82.5°	214.3	145.2	127.3	160.0	168.2	378.4	483.7	332.4	263.9	365.1	387.6
85°	92.0	79.8	75.7	82.8	95.1	265.4	385.0	253.6	284.8	254.1	202.0
87.5°	27.6	33.7	32.2	31.7	34.8	63.4	205.0	141.1	209.1	79.3	59.3
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)