

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: P317419

Luminaire Tested: **GAN-SA5D-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317419
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-SA5D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 36793 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

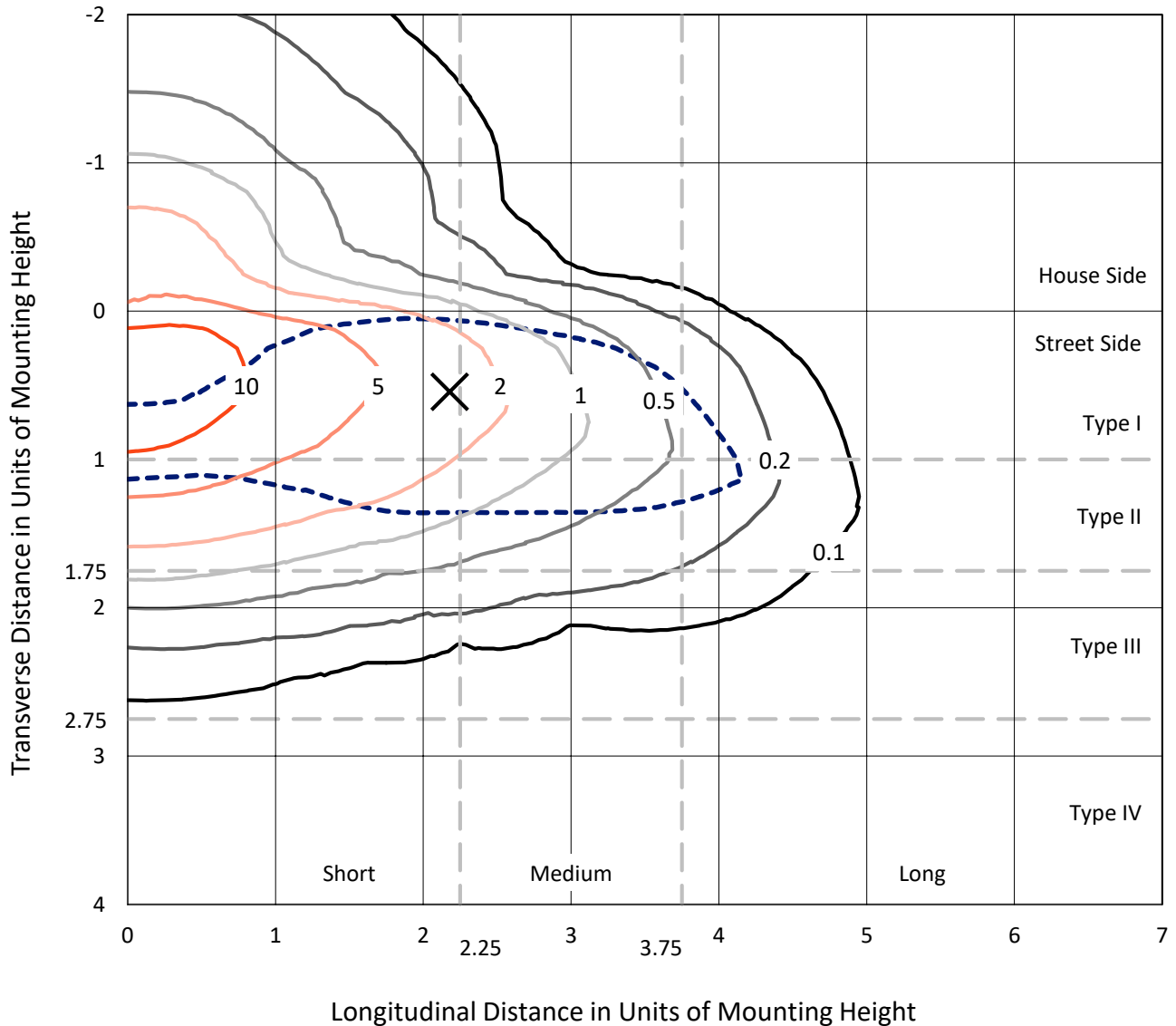
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317419
 CATALOG NUMBER: GAN-SA5D-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

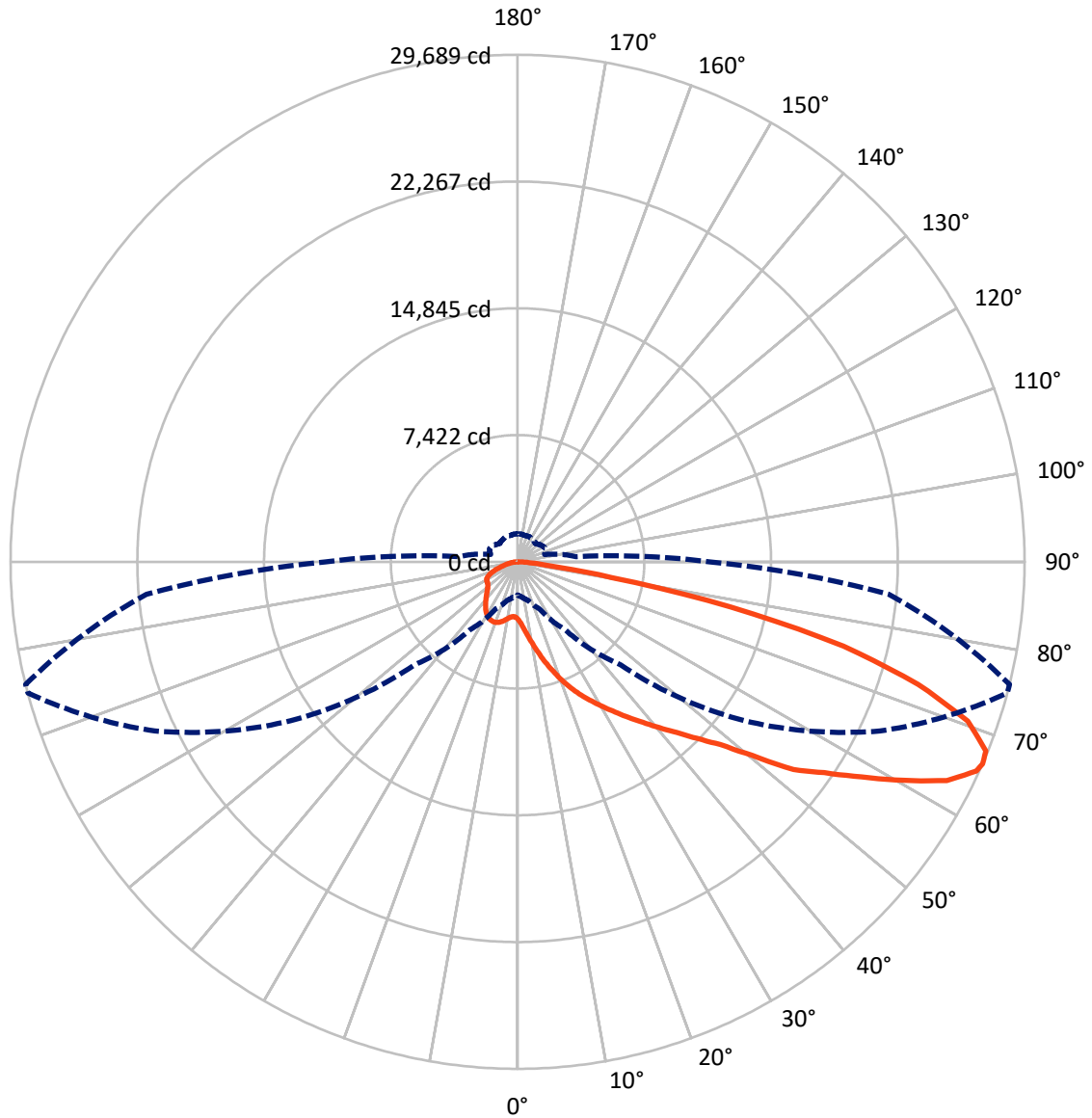
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

REPORT NUMBER: P317419
CATALOG NUMBER: GAN-SA5D-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P317419
 CATALOG NUMBER: GAN-SA5D-730-U-T2R

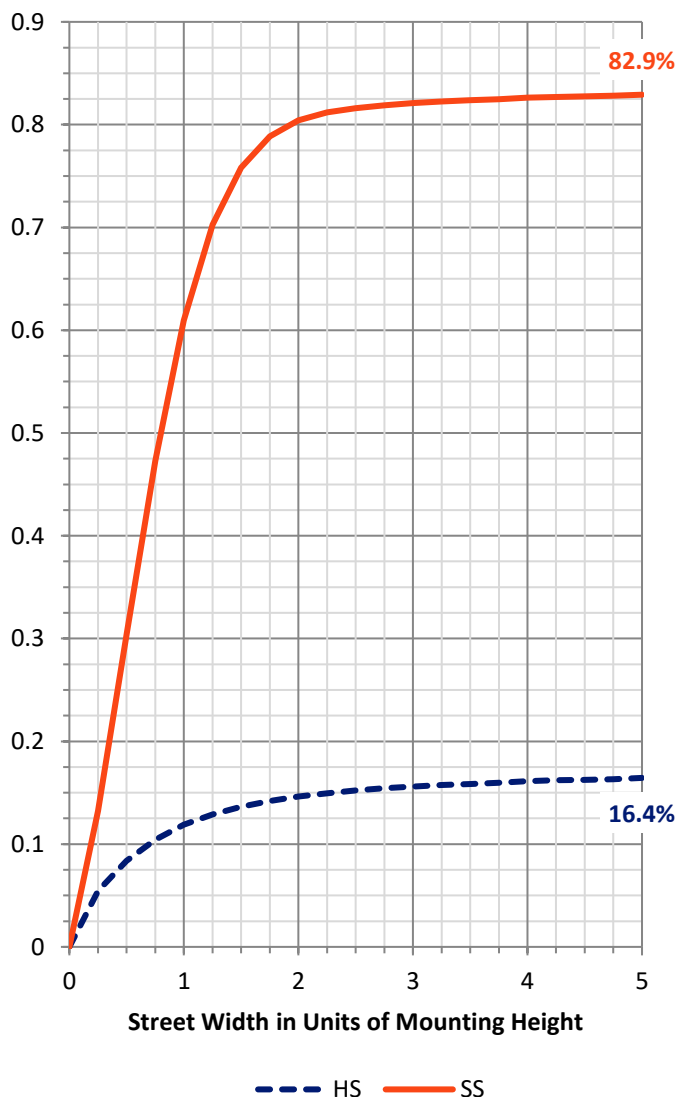
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6191.0	0.0	6191.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	30602.0	0.0	30602.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	36793.0	0.0	36793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.3	1.1
10°-20°	1604.5	4.4
20°-30°	3118.0	8.5
30°-40°	5089.2	13.8
40°-50°	6953.1	18.9
50°-60°	8099.0	22.0
60°-70°	7260.9	19.7
70°-80°	3669.4	10.0
80°-90°	592.6	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°	36793.0	100.0
0°-180°	36793.0	100.0

Coefficient of Utilization

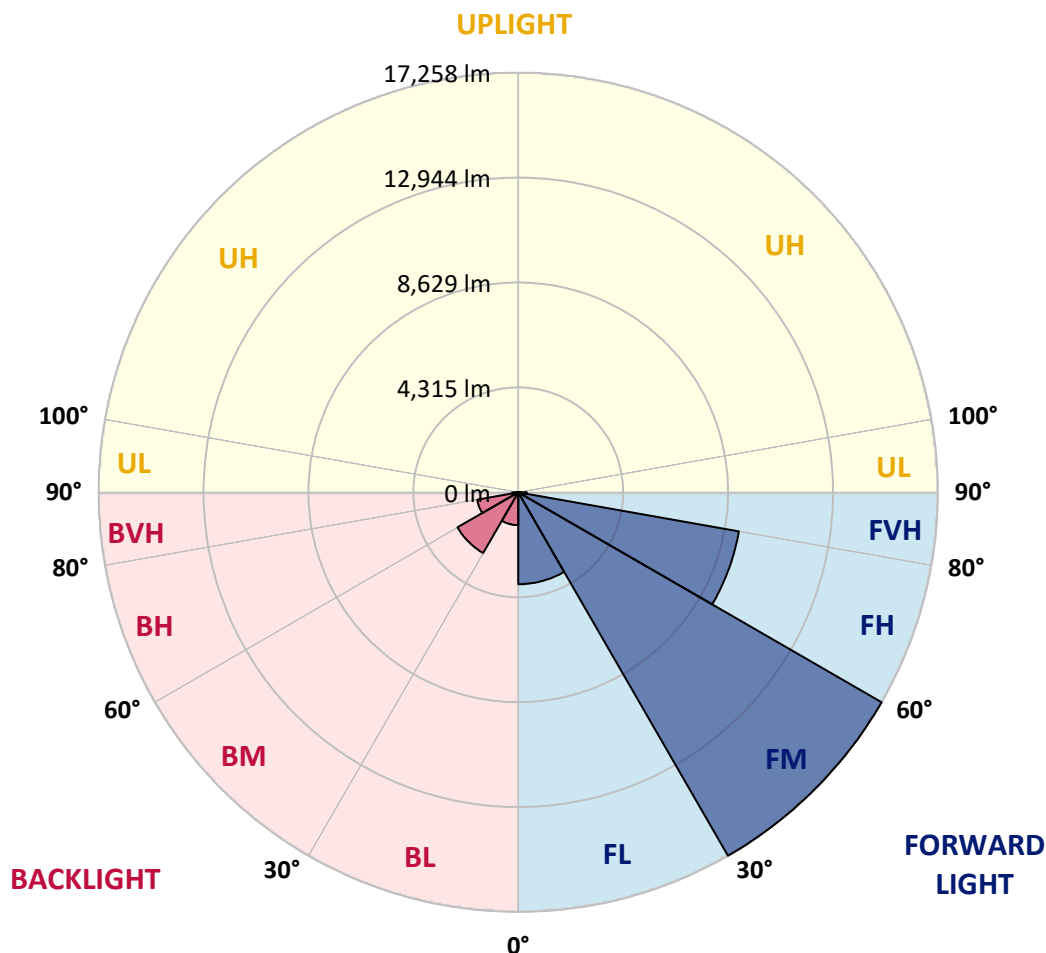


REPORT NUMBER: P317419
 CATALOG NUMBER: GAN-SA5D-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3778.5	10.3			
FM (30°-60°)	17258.5	46.9			
FH (60°-80°)	9215.1	25.0			G4/12000
FVH (80°-90°)	349.9	1.0			G3/500
BL (0°-30°)	1350.3	3.7	B3/2500		
BM (30°-60°)	2882.9	7.8	B3/5000		
BH (60°-80°)	1715.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	242.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





REPORT NUMBER: P317419

CATALOG NUMBER: GAN-SA5D-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0
2.5°	4460.5	4393.0	4386.8	4288.1	4265.6	4077.0	3938.4	3793.5	3628.6	3596.1	3466.2
5°	5729.5	5723.3	5637.1	5476.0	5349.8	5027.6	4709.0	4371.8	4002.1	3942.1	3649.8
7.5°	6871.2	6861.2	6795.0	6621.4	6439.0	6043.1	5588.4	5071.3	4471.7	4383.0	3898.4
10°	7738.1	7734.3	7711.8	7584.4	7429.5	7049.8	6547.7	5842.0	5017.6	4896.4	4209.4
12.5°	8407.6	8415.1	8430.1	8385.1	8311.4	7987.9	7473.3	6658.9	5599.6	5479.7	4555.4
15°	8861.0	8883.5	8960.9	9024.6	9063.3	8864.7	8366.4	7494.5	6251.7	6108.0	4938.9
17.5°	9089.6	9114.6	9248.2	9440.6	9617.9	9597.9	9202.0	8291.4	6877.4	6738.8	5351.1
20°	9286.9	9305.7	9455.6	9686.6	10000.2	10138.8	9916.5	9058.3	7563.2	7398.3	5788.2
22.5°	9859.0	9882.7	9927.7	10058.9	10336.2	10591.0	10483.5	9784.1	8191.5	8037.8	6202.9
25°	10963.2	10991.9	10894.5	10783.3	10835.8	11013.2	11033.1	10446.1	8828.5	8654.9	6648.9
27.5°	12293.5	12334.7	12168.6	11882.5	11632.7	11564.0	11540.3	10988.2	9436.8	9235.7	7089.8
30°	13596.3	13667.5	13451.4	13080.4	12622.0	12299.7	12061.1	11519.0	10036.4	9844.0	7505.7
32.5°	14869.1	14840.3	14526.8	14164.6	13627.5	13224.0	12647.0	12088.6	10710.9	10489.8	7919.2
35°	15740.9	15750.9	15459.9	15030.2	14518.1	14208.3	13431.4	12703.2	11399.1	11195.5	8388.8
37.5°	16482.9	16436.7	16106.9	15706.0	15265.0	15132.6	14349.5	13380.2	12144.8	11922.5	8888.5
40°	16730.2	16676.5	16460.4	16171.9	15818.4	15807.1	15362.5	14147.1	12988.0	12768.1	9451.8
42.5°	16580.3	16511.6	16422.9	16344.2	16235.6	16285.5	16314.3	15046.4	13914.8	13668.7	10103.8
45°	16027.0	15923.3	15985.8	16156.9	16393.0	16675.2	17173.6	16042.0	14952.8	14746.7	10869.5
47.5°	15176.3	15082.7	15277.5	15643.5	16285.5	17000.0	17986.8	17141.2	16191.9	15987.0	11960.0
50°	13979.7	14007.2	14285.8	14951.5	15922.0	17149.9	18988.5	18596.3	17993.0	17801.9	13447.6
52.5°	12016.2	12021.2	12805.6	13898.5	15277.5	17072.5	19544.4	20456.2	20452.5	20221.4	14864.1
55°	10192.5	10303.7	10924.5	12377.2	14233.3	16762.7	19932.9	21360.6	22067.5	21796.5	16184.4
57.5°	8411.3	8476.3	9064.6	10523.5	12743.1	15937.0	20331.3	22446.0	23928.7	23757.5	17825.7
60°	6385.3	6485.2	7093.5	8441.3	10837.0	14471.9	20368.8	23578.9	26153.3	25980.9	19658.1
62.5°	4144.5	4316.8	4886.4	6149.2	8531.2	12364.7	19499.4	24319.6	28261.7	28200.5	21284.4
65°	2382.0	2511.9	2907.9	3882.1	5885.7	9719.1	17432.2	24034.8	29559.5	29524.6	21892.7
66°	1946.1	2027.3	2330.8	3034.0	4856.4	8535.0	16230.6	23434.0	29688.2	29689.4	21822.7
67.5°	1556.4	1592.6	1728.7	2172.2	3583.6	6765.0	14083.4	22108.8	29528.3	29572.0	21371.8
70°	1287.8	1306.5	1349.0	1456.4	1956.1	4079.5	9996.4	18665.0	27923.2	27957.0	19611.8
72.5°	1155.4	1166.6	1182.9	1197.9	1380.2	2279.6	6105.5	14931.5	24482.0	24525.7	16930.1
75°	1046.7	1053.0	1050.5	1051.7	1157.9	1452.7	3155.2	11148.1	19795.5	19708.0	12969.2
77.5°	919.3	925.6	913.1	915.6	1024.2	1116.7	1570.1	7804.3	13358.9	12741.9	7307.1
80°	776.9	781.9	776.9	785.7	891.8	843.1	913.1	4390.5	5906.9	5587.1	2598.1
82.5°	587.1	608.3	623.3	658.3	734.5	599.6	610.8	1710.0	1798.7	1712.5	796.9
85°	257.3	313.5	469.7	503.4	552.1	359.7	401.0	697.0	732.0	709.5	289.8
87.5°	67.5	73.7	232.3	292.3	306.0	162.4	208.6	317.3	334.8	317.3	96.2
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: P317419
 CATALOG NUMBER: GAN-SA5D-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0	3360.0
2.5°	3397.5	3336.3	3226.4	3129.0	3055.3	3005.3	2955.3	2930.3	2915.4	2900.4	2902.9
5°	3506.2	3382.5	3193.9	3060.3	2985.3	2937.8	2912.9	2902.9	2896.6	2881.6	2881.6
7.5°	3669.8	3494.9	3235.1	3097.7	3039.0	3002.8	2987.8	2982.8	2975.3	2957.8	2960.3
10°	3875.9	3631.1	3321.3	3187.7	3133.9	3094.0	3072.7	3065.2	3051.5	3031.5	3034.0
12.5°	4118.2	3799.7	3435.0	3295.1	3230.1	3176.4	3141.4	3120.2	3096.5	3070.2	3071.5
15°	4383.0	3983.3	3557.4	3391.3	3302.6	3227.6	3171.4	3135.2	3097.7	3065.2	3064.0
17.5°	4651.6	4160.7	3651.1	3443.7	3323.8	3225.1	3148.9	3092.7	3046.5	3006.5	3002.8
20°	4941.4	4320.6	3703.5	3438.7	3283.8	3166.4	3065.2	2995.3	2944.1	2904.1	2897.9
22.5°	5236.2	4470.5	3712.3	3387.5	3195.2	3051.5	2945.3	2867.9	2815.4	2774.2	2759.2
25°	5506.0	4586.6	3676.0	3288.8	3071.5	2916.6	2812.9	2734.2	2691.8	2643.1	2628.1
27.5°	5752.0	4667.8	3603.6	3162.7	2932.8	2780.5	2683.0	2615.6	2569.4	2531.9	2519.4
30°	5973.1	4711.5	3484.9	3012.8	2790.4	2651.8	2569.4	2523.1	2483.2	2435.7	2427.0
32.5°	6183.0	4711.5	3332.6	2849.2	2649.3	2538.1	2489.4	2460.7	2415.7	2369.5	2357.0
35°	6392.8	4682.8	3152.7	2678.0	2519.4	2456.9	2454.4	2420.7	2352.0	2289.6	2273.3
37.5°	6613.9	4624.1	2950.3	2518.1	2413.2	2420.7	2442.0	2367.0	2269.6	2180.9	2157.2
40°	6863.7	4542.9	2740.5	2379.5	2324.5	2404.5	2408.2	2289.6	2099.7	2018.5	1997.3
42.5°	7157.2	4461.7	2545.6	2257.1	2254.6	2355.8	2344.5	2122.2	2008.5	1967.3	1956.1
45°	7543.2	4415.5	2360.8	2140.9	2199.6	2277.1	2235.9	2029.8	1982.3	1958.6	1948.6
47.5°	8151.5	4439.2	2190.9	2048.5	2144.7	2198.4	2033.5	1992.3	1958.6	1929.8	1919.8
50°	8913.4	4425.5	2053.5	1984.8	2082.2	2115.9	1942.3	1943.6	1926.1	1893.6	1878.6
52.5°	9486.8	4318.1	1964.8	1948.6	2027.3	1969.8	1884.9	1896.1	1887.4	1839.9	1823.7
55°	10040.1	4225.6	1919.8	1934.8	1987.3	1787.4	1817.4	1844.9	1836.2	1789.9	1782.4
57.5°	10728.4	4208.2	1892.4	1938.6	1953.6	1696.3	1752.5	1788.7	1782.4	1762.5	1758.7
60°	11571.5	4213.2	1867.4	1944.8	1916.1	1628.8	1691.3	1737.5	1741.2	1737.5	1735.0
62.5°	12034.9	4077.0	1804.9	1927.3	1849.9	1570.1	1627.6	1695.0	1696.3	1703.7	1702.5
65°	11641.4	3669.8	1688.8	1866.1	1738.7	1521.4	1572.6	1646.3	1627.6	1661.3	1661.3
66°	11259.2	3435.0	1631.3	1826.2	1691.3	1502.6	1555.1	1621.3	1597.6	1643.8	1643.8
67.5°	10478.5	3039.0	1527.6	1741.2	1623.8	1476.4	1535.1	1580.1	1547.6	1616.3	1611.3
70°	9052.1	2350.8	1319.0	1548.9	1512.6	1437.7	1507.6	1497.6	1450.2	1555.1	1535.1
72.5°	7631.9	1786.2	1059.2	1296.5	1344.0	1389.0	1468.9	1392.7	1332.8	1406.5	1362.7
75°	5921.9	1342.8	836.9	1008.0	1135.4	1312.8	1422.7	1271.6	1185.4	1177.9	1154.2
77.5°	3201.4	921.8	663.3	769.4	901.8	1217.9	1391.5	1141.7	1011.8	981.8	963.0
80°	1267.8	599.6	482.1	583.3	630.8	1080.5	1316.5	990.5	834.4	804.4	775.7
82.5°	523.4	354.7	311.0	391.0	410.9	924.3	1181.6	811.9	644.5	891.8	946.8
85°	224.8	194.9	184.9	202.4	232.3	648.3	940.6	619.5	695.7	620.8	493.4
87.5°	67.5	82.4	78.7	77.4	84.9	154.9	500.9	344.7	510.9	193.6	144.9
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)