

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: P323788

Luminaire Tested: **GAN-SA4A-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13894 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

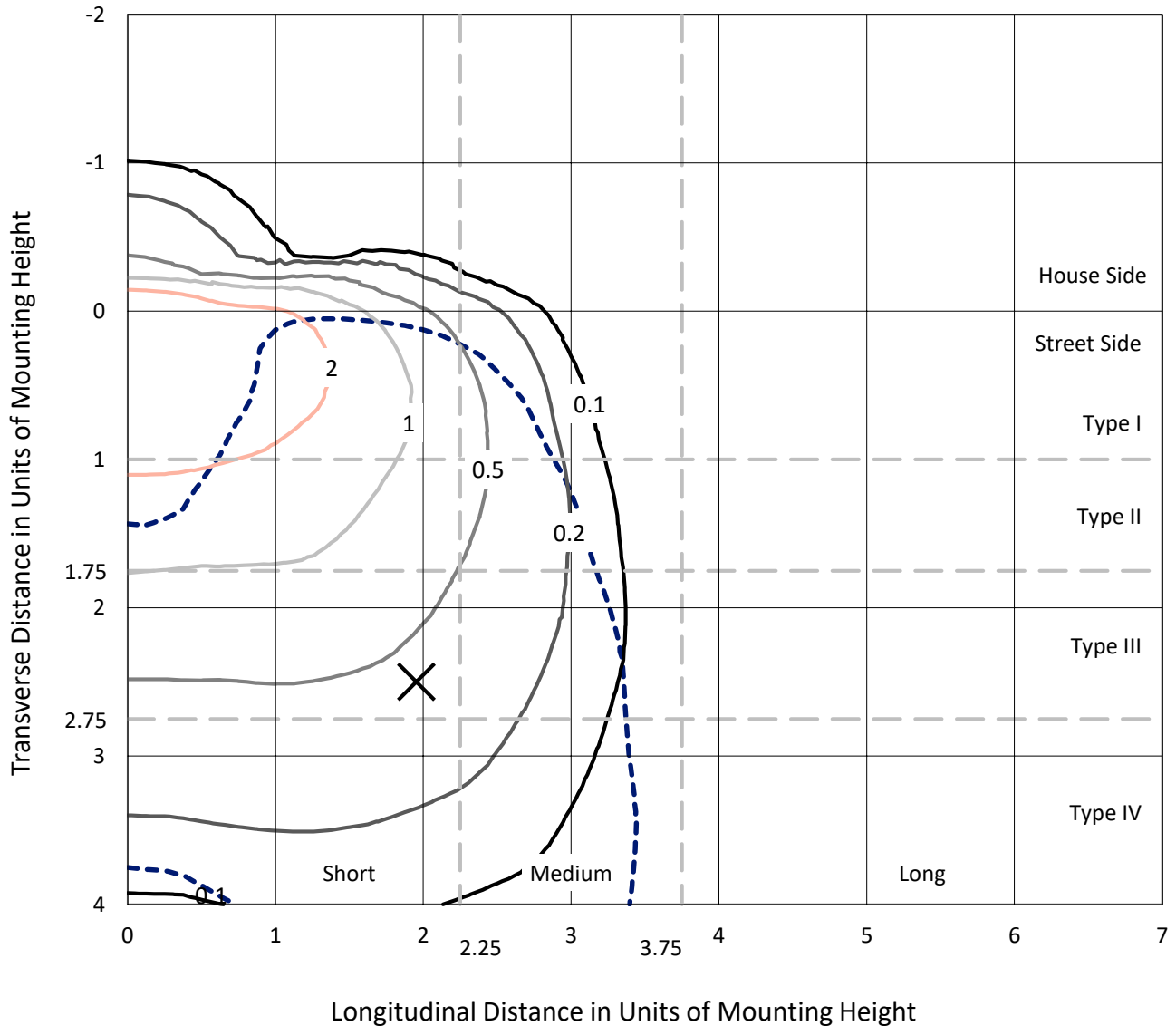
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323788
 CATALOG NUMBER: GAN-SA4A-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

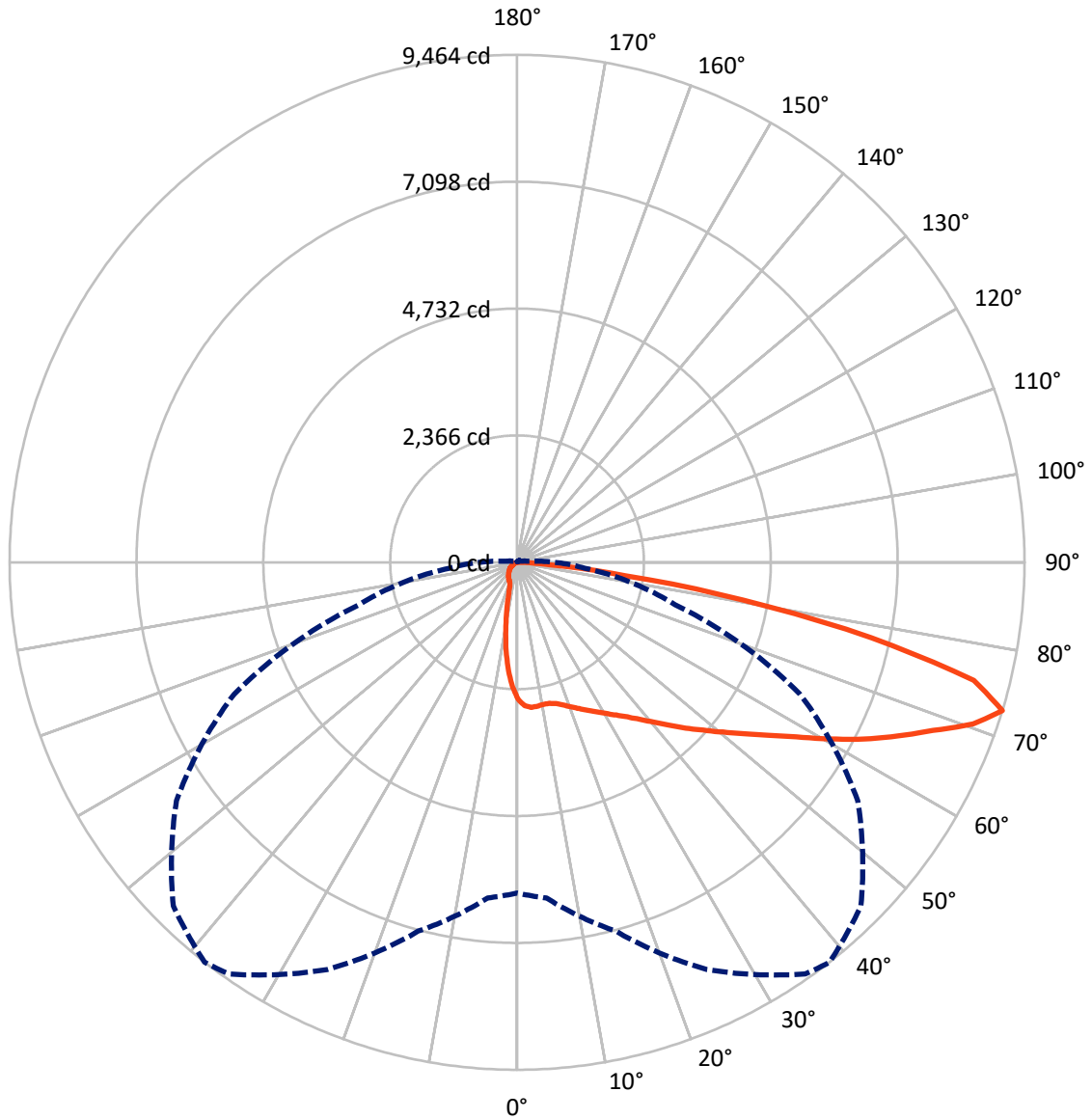
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P323788
CATALOG NUMBER: GAN-SA4A-730-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P323788
 CATALOG NUMBER: GAN-SA4A-730-U-SL4-HSS

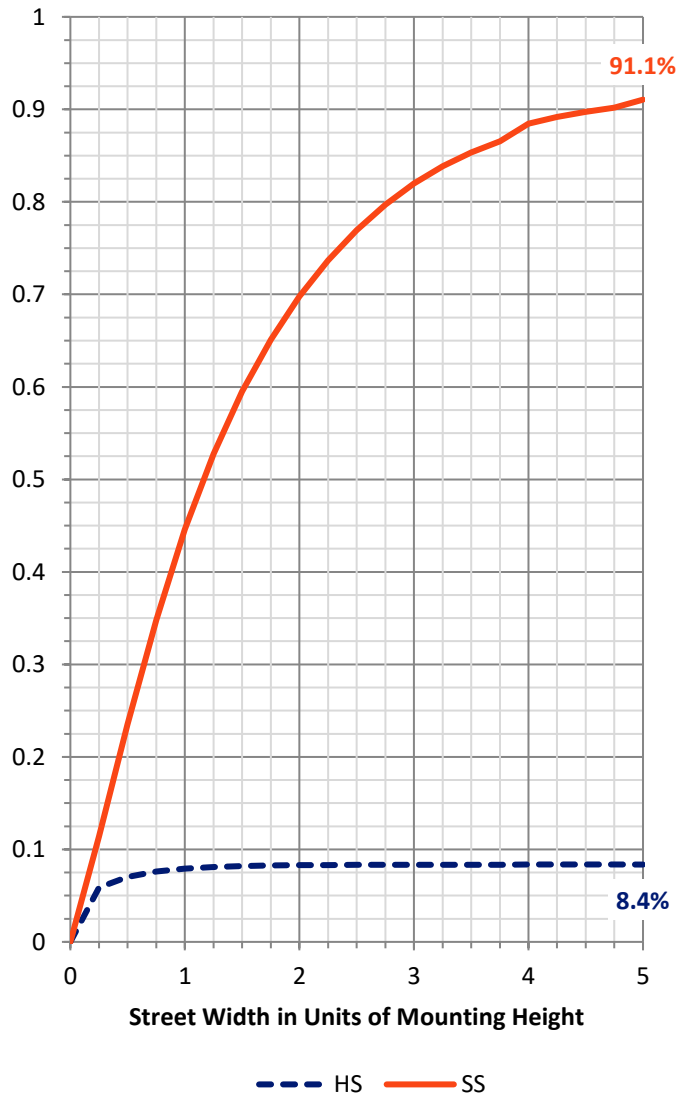
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.2	0.0	1169.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12724.8	0.0	12724.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	13894.0	0.0	13894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	1.6
10°-20°	532.4	3.8
20°-30°	846.8	6.1
30°-40°	1273.1	9.2
40°-50°	1942.2	14.0
50°-60°	2745.0	19.8
60°-70°	3443.1	24.8
70°-80°	2574.5	18.5
80°-90°	319.2	2.3
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°	13894.0	100.0
0°-180°	13894.0	100.0

Coefficient of Utilization



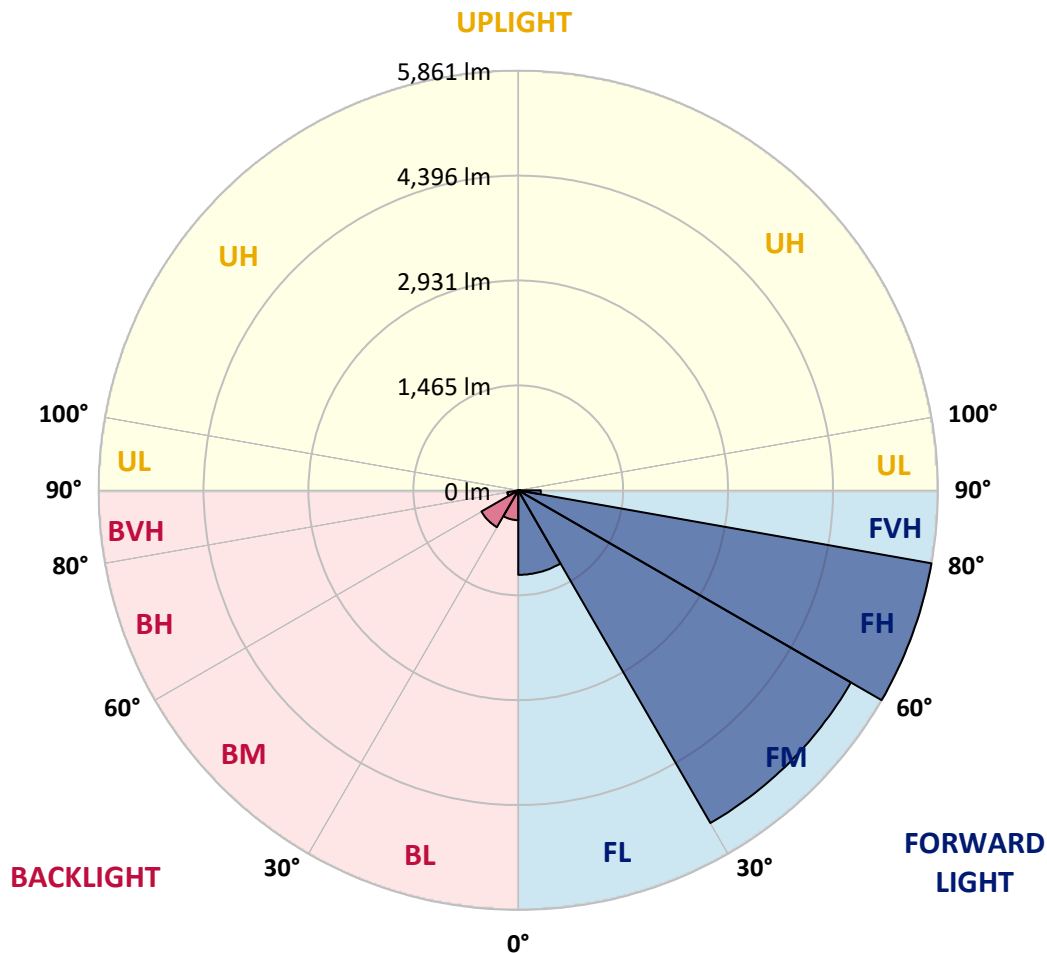
REPORT NUMBER: P323788
 CATALOG NUMBER: GAN-SA4A-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1180.7	8.5			
FM (30°-60°)	5366.5	38.6			
FH (60°-80°)	5861.4	42.2			G3/7500
FVH (80°-90°)	316.3	2.3			G3/500
BL (0°-30°)	416.3	3.0	B1/500		
BM (30°-60°)	593.7	4.3	B1/1000		
BH (60°-80°)	156.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P323788
 CATALOG NUMBER: GAN-SA4A-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1
2.5°	2712.0	2712.6	2706.2	2695.9	2682.6	2675.7	2664.1	2645.7	2626.0	2590.8	2552.8
5°	2767.4	2767.4	2759.3	2745.5	2724.1	2717.8	2695.9	2666.4	2626.0	2568.9	2504.9
7.5°	2761.6	2762.8	2751.8	2737.4	2716.1	2710.3	2683.7	2650.8	2600.6	2531.4	2449.5
10°	2731.6	2734.5	2725.9	2718.9	2699.3	2693.0	2668.2	2635.3	2585.1	2511.2	2417.2
12.5°	2701.0	2703.9	2706.8	2713.2	2701.0	2698.7	2679.1	2651.4	2603.5	2526.8	2420.6
15°	2681.4	2687.2	2708.0	2732.8	2735.7	2733.4	2720.7	2694.7	2646.2	2566.6	2445.4
17.5°	2681.4	2690.7	2733.9	2781.3	2798.0	2799.7	2788.8	2752.4	2694.7	2609.3	2468.5
20°	2703.9	2716.6	2784.1	2851.1	2878.8	2878.8	2857.4	2806.6	2739.1	2648.0	2484.1
22.5°	2761.6	2778.4	2863.2	2940.5	2969.9	2963.6	2934.7	2860.9	2785.3	2691.8	2503.7
25°	2875.3	2888.0	2976.3	3054.2	3072.1	3057.6	3021.3	2926.7	2844.1	2751.2	2539.5
27.5°	3021.9	3023.6	3114.8	3180.6	3169.6	3159.8	3114.2	3009.2	2929.0	2836.1	2601.2
30°	3182.9	3182.9	3263.1	3313.3	3279.8	3271.7	3226.1	3109.0	3037.5	2951.5	2688.9
32.5°	3338.7	3345.6	3410.8	3442.5	3405.0	3396.9	3352.5	3235.4	3181.7	3127.5	2825.7
35°	3489.3	3494.5	3556.2	3573.5	3537.7	3540.0	3508.3	3409.1	3388.9	3381.9	3031.7
37.5°	3635.2	3636.4	3699.3	3710.3	3692.4	3712.0	3714.9	3627.2	3664.7	3720.6	3321.9
40°	3768.5	3769.7	3832.0	3860.3	3890.9	3916.3	3938.8	3892.0	4016.1	4145.9	3667.6
42.5°	3875.3	3887.4	3966.5	4020.1	4100.9	4149.4	4210.5	4208.2	4434.4	4629.5	4085.3
45°	3969.3	3990.1	4100.3	4194.4	4332.9	4410.2	4506.0	4581.0	4905.3	5167.8	4508.3
47.5°	4093.4	4113.0	4238.8	4392.9	4577.5	4679.1	4837.8	4999.9	5422.9	5696.4	4921.4
50°	4268.2	4259.6	4383.6	4604.6	4841.8	4975.1	5201.3	5444.2	5936.4	6156.8	5164.4
52.5°	4454.6	4451.2	4542.9	4834.9	5153.4	5309.2	5608.1	5903.5	6427.5	6474.2	5275.7
55°	4685.4	4660.6	4737.9	5097.4	5523.3	5690.6	6042.6	6358.2	6818.7	6653.1	5331.7
57.5°	4927.2	4886.2	4960.1	5390.0	5940.5	6138.4	6523.8	6801.4	7078.9	6775.4	5331.1
60°	5177.1	5128.6	5216.3	5755.8	6458.6	6687.7	7045.5	7100.9	7321.9	6837.2	5291.9
62.5°	5385.9	5357.1	5487.5	6147.0	7037.4	7262.4	7439.6	7373.2	7526.7	6885.0	5200.1
65°	5606.9	5608.7	5819.3	6603.5	7652.5	7804.2	7819.2	7726.3	7698.1	6875.2	4889.7
67.5°	5905.8	5933.5	6284.9	7223.2	8250.9	8368.0	8366.8	8108.9	7823.3	6485.2	4201.3
70°	6222.0	6287.2	6821.6	7932.3	8904.1	9022.9	8961.8	8352.4	7366.3	5244.0	2973.4
72.5°	6169.0	6282.1	7119.9	8379.5	9373.2	9463.8	9066.2	7754.0	5822.2	3047.8	1266.0
75°	4759.3	4890.3	6528.4	7936.4	8881.0	8799.6	7789.8	6033.9	3181.7	850.5	285.0
77.5°	2514.1	2583.9	4312.7	6046.1	6924.9	6754.6	5487.5	3347.3	970.0	210.6	128.1
80°	1316.8	1332.9	1879.4	3430.4	4274.0	4275.2	3252.1	1470.3	399.9	107.9	86.0
82.5°	705.1	719.0	993.1	1585.1	2239.4	2030.0	1245.2	809.0	232.5	61.2	82.5
85°	169.6	172.5	563.2	724.2	880.5	629.0	369.9	679.2	62.9	35.8	66.9
87.5°	65.2	66.4	208.9	313.3	224.5	145.4	173.1	253.3	8.1	13.8	10.4
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: P323788
 CATALOG NUMBER: GAN-SA4A-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1	2555.1
2.5°	2529.7	2514.7	2477.7	2431.0	2389.5	2359.4	2314.4	2285.0	2265.4	2264.8	2257.3
5°	2465.6	2435.0	2355.4	2260.8	2174.8	2097.5	2006.3	1934.2	1880.5	1871.9	1853.4
7.5°	2397.0	2346.8	2224.4	2076.7	1932.5	1785.9	1615.7	1510.1	1419.5	1376.2	1371.6
10°	2354.8	2284.4	2110.8	1897.3	1671.1	1432.7	1210.0	1056.0	944.6	912.9	889.2
12.5°	2346.2	2253.3	2023.0	1728.8	1405.6	1090.6	844.2	680.3	591.4	563.2	555.7
15°	2354.8	2238.9	1949.2	1562.0	1136.7	773.8	566.6	471.4	438.0	429.9	429.3
17.5°	2360.0	2221.5	1865.5	1376.8	875.9	552.8	433.9	406.2	401.0	400.5	401.6
20°	2359.4	2195.0	1765.7	1170.2	651.5	434.5	392.4	386.6	385.5	386.0	385.5
22.5°	2355.4	2163.8	1656.1	957.3	492.2	388.3	374.5	371.0	370.4	370.4	370.4
25°	2362.9	2139.0	1535.5	753.6	405.6	367.0	358.3	355.4	354.9	354.9	353.7
27.5°	2390.0	2125.2	1403.3	579.9	366.4	347.9	341.0	340.4	338.7	338.1	339.3
30°	2433.9	2125.2	1258.5	451.2	342.8	328.3	323.1	322.0	321.4	320.8	321.4
32.5°	2511.2	2141.3	1100.4	375.1	320.2	306.4	302.9	304.7	302.9	302.9	302.9
35°	2650.8	2189.8	934.8	327.2	296.6	285.0	281.6	283.9	282.7	282.7	282.2
37.5°	2854.5	2279.8	768.0	298.3	275.8	263.7	259.1	262.5	261.4	261.4	260.8
40°	3102.7	2410.8	609.3	276.4	255.6	242.9	238.9	240.6	237.7	237.7	238.9
42.5°	3409.1	2577.0	470.9	255.0	235.4	223.3	221.0	219.3	214.1	211.2	211.8
45°	3749.5	2750.1	367.0	234.3	216.4	206.6	203.1	198.5	189.8	184.1	184.6
47.5°	4053.6	2883.4	298.3	214.1	199.1	191.6	186.4	177.7	165.0	158.1	158.7
50°	4213.4	2903.6	253.9	193.9	182.9	175.4	167.9	154.6	139.6	132.1	131.6
52.5°	4254.4	2809.0	221.0	175.4	166.8	158.1	148.3	130.4	113.7	105.6	104.4
55°	4269.4	2664.7	191.6	158.1	149.4	139.6	126.9	106.7	91.2	83.1	82.5
57.5°	4219.8	2449.5	168.5	142.5	132.1	120.0	104.4	85.4	70.4	64.0	64.0
60°	4109.6	2158.1	150.6	125.8	114.3	100.4	84.2	66.4	52.5	47.3	47.3
62.5°	3889.7	1780.7	133.9	108.5	97.5	83.1	68.1	50.2	36.9	34.0	34.6
65°	3474.8	1350.8	117.1	92.9	83.1	68.7	53.1	35.8	24.8	24.8	26.0
67.5°	2833.8	938.2	99.8	79.1	71.6	56.0	40.4	24.8	17.3	19.6	21.9
70°	1875.9	526.2	85.4	65.2	61.2	44.4	30.0	16.7	13.8	18.5	22.5
72.5°	708.0	204.8	71.6	52.5	53.1	34.0	21.3	12.7	12.7	20.2	26.5
75°	197.3	100.4	51.4	38.7	41.5	24.8	15.6	11.0	12.1	23.1	31.2
77.5°	116.0	73.9	33.5	22.5	28.3	17.3	10.4	8.7	10.4	19.6	30.0
80°	93.5	39.2	19.6	11.5	15.6	9.8	6.9	5.2	2.9	7.5	15.6
82.5°	93.5	23.7	9.2	8.1	8.1	5.2	3.5	2.3	0.6	0.0	4.0
85°	62.9	9.8	5.8	5.2	4.0	1.7	1.2	0.6	0.0	0.0	0.0
87.5°	10.4	4.0	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
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)