

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: P323468

Luminaire Tested: **GAN-SA4A-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14626 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

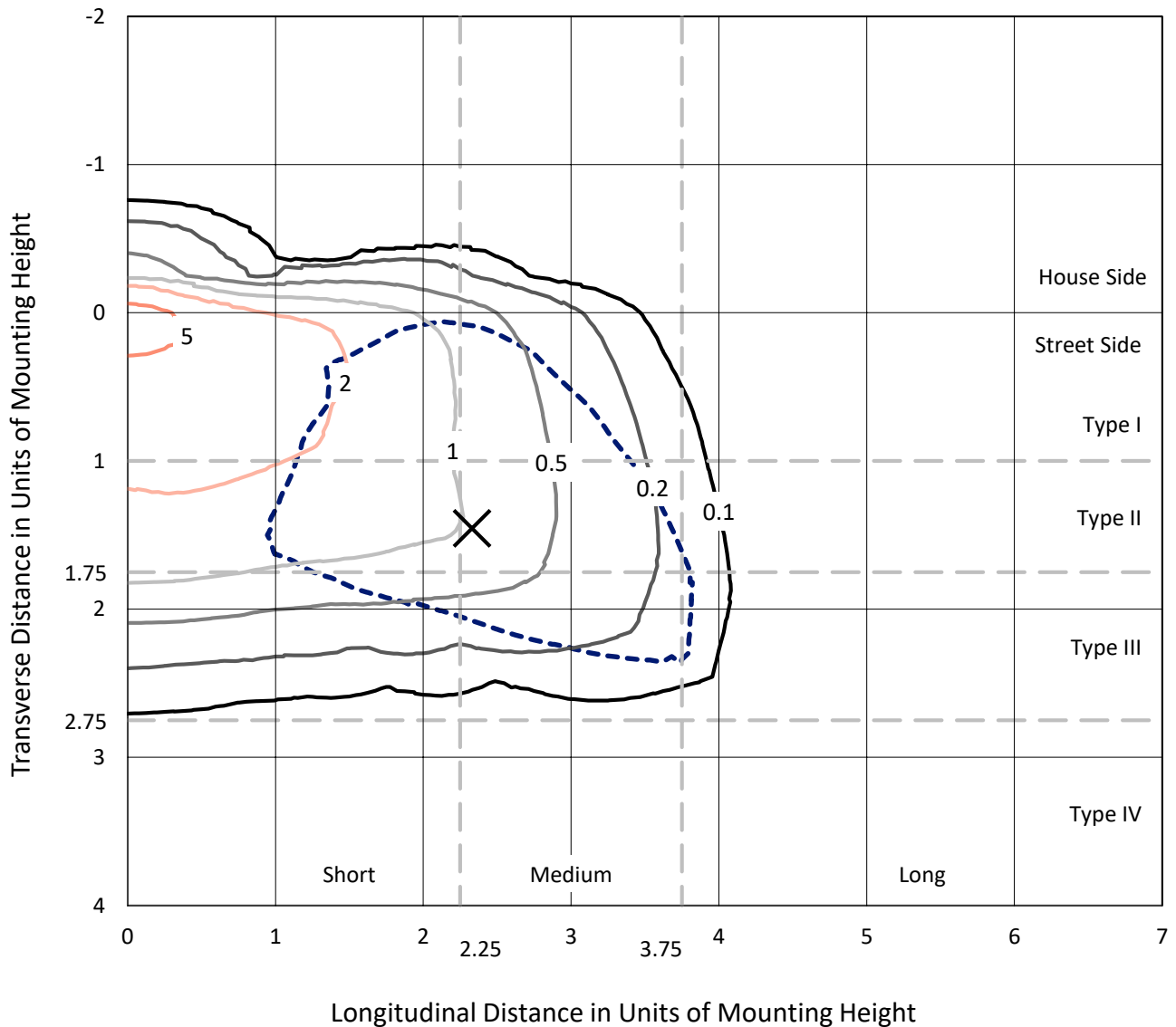
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

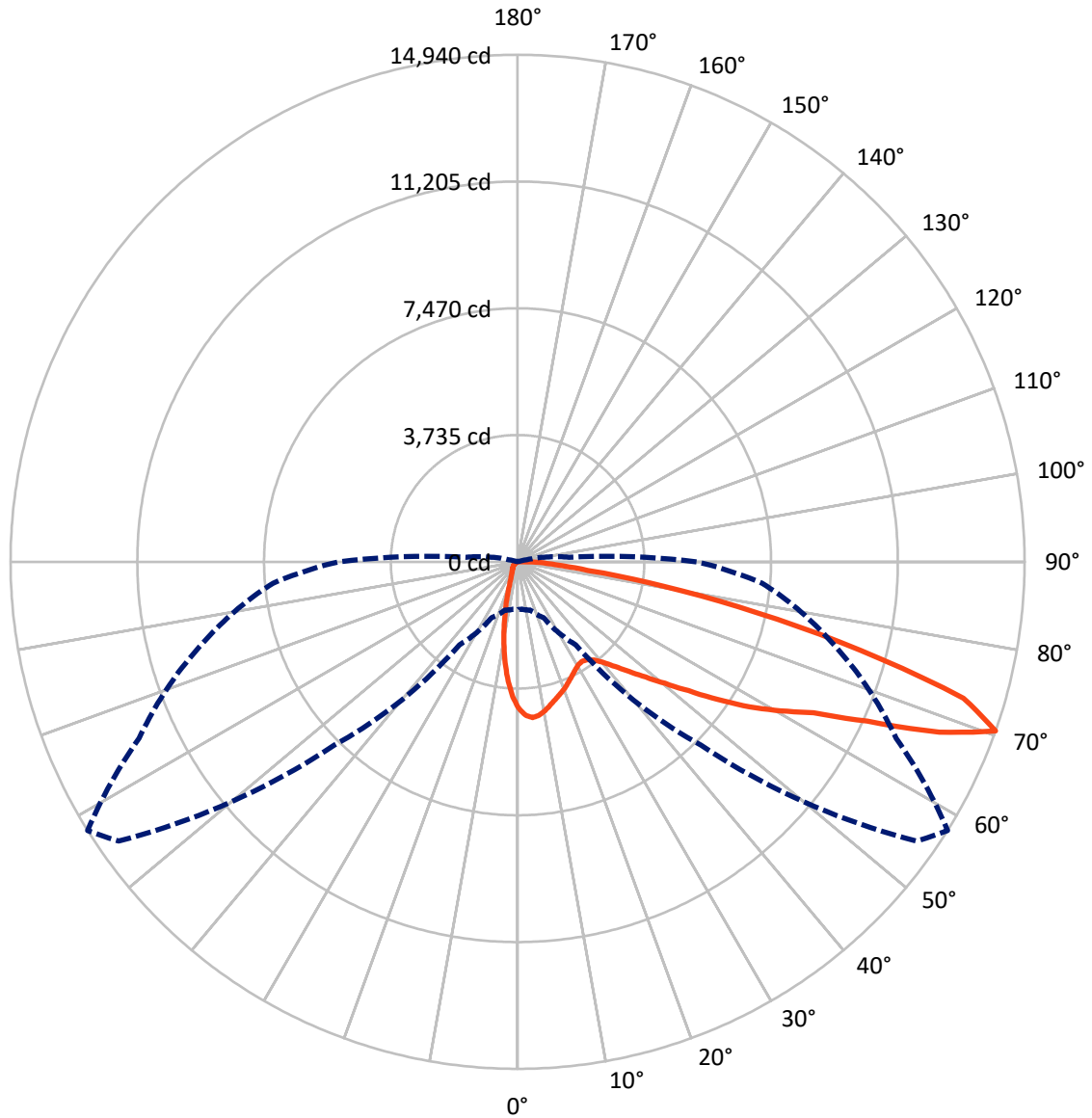
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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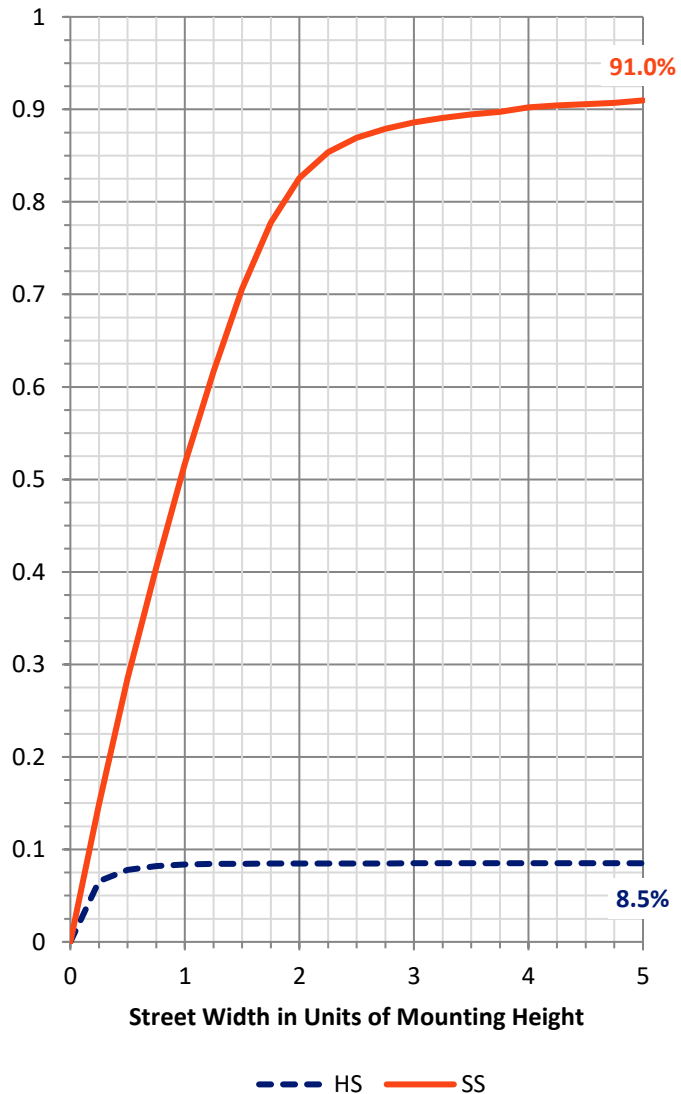
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1251.6	0.0	1251.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	13374.3	0.0	13374.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	14626.0	0.0	14626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	2.4
10°-20°	741.5	5.1
20°-30°	974.8	6.7
30°-40°	1291.0	8.8
40°-50°	1929.7	13.2
50°-60°	3091.3	21.1
60°-70°	3896.5	26.6
70°-80°	2101.8	14.4
80°-90°	246.0	1.7
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°	14626.0	100.0
0°-180°	14626.0	100.0

Coefficient of Utilization

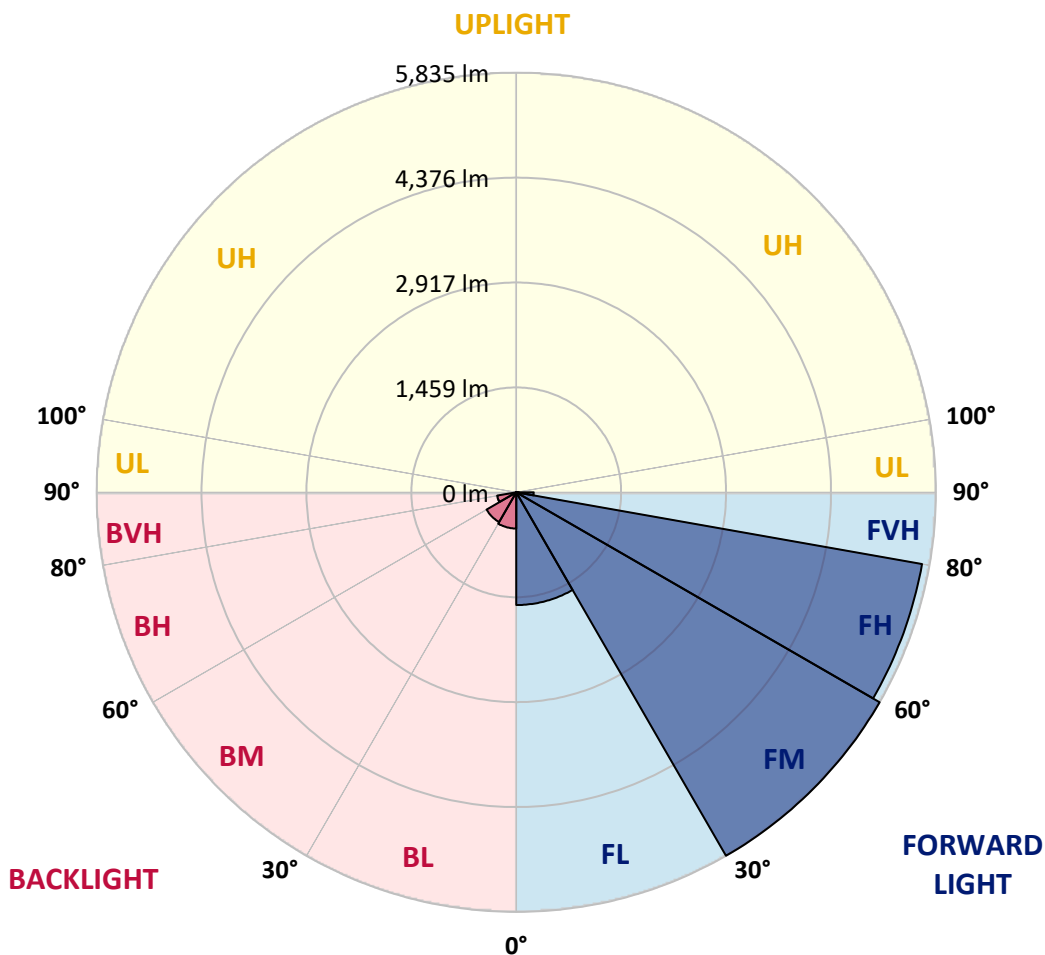


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.7	10.7			
FM (30°-60°)	5834.5	39.9			
FH (60°-80°)	5729.2	39.2			G3/7500
FVH (80°-90°)	243.9	1.7			G3/500
BL (0°-30°)	502.9	3.4	B2/1000		
BM (30°-60°)	477.5	3.3	B1/1000		
BH (60°-80°)	269.2	1.8	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5
2.5°	4678.7	4667.1	4662.9	4655.6	4627.6	4600.2	4546.1	4530.9	4496.8	4415.9	4330.2
5°	4682.3	4681.7	4694.5	4691.4	4681.7	4668.9	4630.0	4609.9	4552.2	4436.6	4279.7
7.5°	4456.7	4468.2	4496.8	4519.9	4546.7	4581.4	4586.2	4566.8	4519.3	4394.6	4186.7
10°	4153.8	4172.1	4212.2	4257.8	4327.7	4397.1	4459.1	4456.7	4440.3	4317.4	4074.7
12.5°	3850.3	3871.6	3917.8	3985.3	4084.5	4197.6	4308.3	4323.5	4350.9	4248.1	3971.4
15°	3584.6	3602.8	3648.4	3731.1	3854.0	4006.0	4168.4	4196.4	4266.9	4194.0	3885.0
17.5°	3358.9	3370.5	3403.9	3495.8	3638.1	3822.4	4033.4	4088.1	4193.3	4151.4	3810.2
20°	3201.4	3203.2	3225.1	3289.6	3431.9	3638.1	3893.5	3972.0	4115.5	4114.9	3733.0
22.5°	3123.6	3117.5	3121.7	3158.8	3263.4	3462.3	3753.6	3846.7	4045.6	4083.9	3654.5
25°	3109.0	3104.1	3091.9	3096.8	3160.1	3308.5	3612.5	3720.2	3984.1	4065.0	3586.4
27.5°	3154.6	3159.5	3138.8	3116.9	3121.7	3208.7	3487.3	3611.9	3934.3	4065.0	3538.3
30°	3246.4	3248.9	3233.6	3205.1	3166.7	3180.7	3400.3	3525.0	3909.3	4093.0	3507.9
32.5°	3348.0	3361.4	3359.5	3336.4	3281.7	3225.1	3379.6	3493.3	3907.5	4155.0	3504.9
35°	3473.9	3489.1	3514.6	3509.8	3452.6	3359.5	3450.2	3539.6	3943.4	4257.2	3537.7
37.5°	3607.7	3630.8	3685.5	3711.7	3674.6	3569.4	3608.3	3672.1	4039.5	4422.6	3621.1
40°	3737.2	3763.4	3863.1	3965.9	3937.9	3829.7	3847.9	3899.0	4210.4	4660.4	3779.2
42.5°	3864.3	3903.2	4049.8	4218.9	4252.3	4166.0	4175.7	4216.5	4464.0	4987.6	4037.7
45°	4016.4	4060.2	4277.3	4485.9	4575.3	4537.6	4578.9	4605.7	4795.4	5420.0	4386.1
47.5°	4239.6	4290.0	4556.4	4794.2	4951.1	4975.5	5058.8	5076.4	5214.5	5923.6	4840.4
50°	4675.0	4689.0	4929.8	5145.7	5372.0	5517.9	5612.8	5626.2	5721.7	6474.0	5407.9
52.5°	5223.0	5232.1	5368.3	5513.1	5770.3	6068.3	6290.3	6309.2	6329.2	7010.4	5968.0
55°	5767.3	5766.1	5856.1	5941.2	6235.6	6668.6	7150.3	7161.8	7017.7	7519.4	6396.1
57.5°	6107.3	6140.1	6276.9	6386.4	6797.5	7352.8	8021.2	8063.7	7740.8	7896.5	6819.4
60°	5999.0	6014.8	6318.3	6723.3	7497.5	8325.3	8902.4	8913.4	8284.5	8273.0	7354.6
62.5°	5111.1	5119.6	5596.4	6431.4	7852.1	9586.6	9965.5	9787.3	8909.7	8795.4	7995.0
65°	3503.1	3558.4	3956.8	4988.8	7200.8	10377.8	11611.2	11316.2	9862.7	9548.3	8574.0
67.5°	2062.9	2051.4	2248.4	3008.6	5288.7	9852.4	13693.0	13399.8	11162.4	10052.5	8404.3
70°	1409.1	1401.2	1476.6	1821.5	2985.5	7642.9	14348.0	14939.7	12310.0	9713.1	7233.0
72.5°	1005.9	1010.2	1121.5	1415.2	1874.4	4453.0	12338.6	13739.2	11950.6	8467.6	5497.9
75°	683.0	694.5	853.9	1161.0	1643.3	2265.4	8755.8	10444.1	9731.4	6154.1	3160.1
77.5°	367.3	380.1	568.0	935.4	1485.8	1573.9	5632.3	7188.0	6112.7	2766.6	915.9
80°	153.3	160.6	265.8	679.9	1283.9	1382.4	3313.9	4358.8	2604.8	545.5	204.3
82.5°	66.3	69.9	110.7	405.7	959.7	1167.1	1754.6	2097.0	789.4	119.8	102.8
85°	12.8	13.4	45.6	214.7	612.4	658.6	1137.3	1114.8	354.6	51.7	74.8
87.5°	0.0	0.0	10.9	67.5	180.0	358.8	693.9	685.4	120.4	24.9	28.0
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°	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5	4320.5
2.5°	4286.4	4244.4	4156.2	4047.4	3964.1	3872.2	3799.2	3706.8	3666.7	3668.5	3646.6
5°	4190.3	4103.9	3908.7	3662.4	3472.7	3276.8	3108.4	2940.5	2841.4	2809.1	2778.7
7.5°	4052.9	3916.0	3604.6	3225.1	2904.0	2590.2	2317.1	2076.9	1924.9	1850.7	1823.3
10°	3897.8	3705.6	3254.9	2755.0	2296.5	1872.0	1518.0	1210.3	1087.4	1004.1	982.8
12.5°	3761.5	3501.2	2913.1	2272.7	1728.4	1216.3	878.8	687.2	603.9	571.1	565.6
15°	3633.2	3310.3	2584.1	1836.1	1196.9	748.7	558.9	493.8	474.4	468.9	468.9
17.5°	3512.2	3128.4	2262.4	1406.1	791.8	524.9	462.8	448.2	442.1	441.5	442.1
20°	3385.7	2946.6	1946.1	1030.2	552.8	444.6	427.5	419.6	417.8	417.8	417.8
22.5°	3264.7	2764.7	1638.4	735.9	443.4	405.7	397.1	391.7	389.8	389.2	388.0
25°	3148.5	2592.0	1338.0	520.0	389.2	371.6	364.3	357.0	351.5	348.5	346.7
27.5°	3053.0	2438.2	1058.2	417.2	351.5	336.3	327.2	316.2	302.9	296.8	294.4
30°	2977.0	2297.7	815.6	352.1	316.2	301.0	287.1	268.2	248.7	238.4	237.8
32.5°	2917.4	2159.6	619.1	311.4	284.6	265.8	245.7	222.0	199.5	187.9	187.3
35°	2888.2	2038.0	473.2	281.6	256.6	232.9	208.0	181.8	159.9	149.0	147.8
37.5°	2907.7	1935.2	369.2	256.6	232.9	205.6	176.4	149.0	129.5	119.8	119.2
40°	2978.8	1869.5	299.8	235.4	212.9	179.4	147.8	122.2	105.8	97.9	97.3
42.5°	3130.3	1845.2	256.0	217.7	193.4	155.1	122.9	101.0	85.8	80.3	79.1
45°	3383.3	1881.1	226.2	200.7	173.3	132.0	101.6	82.7	69.3	65.1	64.5
47.5°	3720.2	1975.3	205.0	184.3	155.1	111.3	84.5	66.9	56.6	52.3	51.7
50°	4154.4	2125.0	187.3	167.9	138.1	94.3	69.9	52.9	43.8	40.7	40.7
52.5°	4627.0	2303.1	171.5	152.7	121.0	78.5	56.6	40.7	34.7	31.0	31.0
55°	5017.4	2458.8	154.5	141.1	100.3	65.1	43.2	31.0	25.5	23.7	23.7
57.5°	5407.3	2624.9	135.0	121.0	80.3	52.9	32.8	23.1	18.9	17.6	17.6
60°	5912.6	2828.0	116.2	98.5	63.2	40.1	24.3	16.4	14.0	13.4	13.4
62.5°	6468.5	2947.2	99.1	79.1	49.3	29.8	17.6	10.9	10.3	10.3	9.7
65°	6808.5	2778.7	83.3	63.2	38.3	22.5	11.6	7.9	9.1	8.5	7.3
67.5°	6374.9	2175.4	68.1	49.3	29.8	17.0	7.3	5.5	9.7	7.9	6.1
70°	5278.3	1522.9	52.9	34.7	23.7	14.6	4.9	3.6	10.3	7.9	4.9
72.5°	3950.1	1019.3	42.0	23.1	17.6	12.8	4.3	1.8	9.1	6.7	4.3
75°	2158.4	410.5	33.4	14.6	10.9	9.1	3.0	1.2	6.1	4.9	3.0
77.5°	568.0	108.3	24.3	9.7	6.1	3.6	1.8	0.6	3.0	2.4	1.2
80°	144.7	42.0	15.8	6.7	4.3	1.8	0.0	0.0	0.6	0.0	0.0
82.5°	77.2	17.6	9.7	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.4	11.6	5.5	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.5	3.6	1.8	0.0	0.0	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)