

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: P323789

Luminaire Tested: **GAN-SA5A-730-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323789  
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-SA5A-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 17216 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

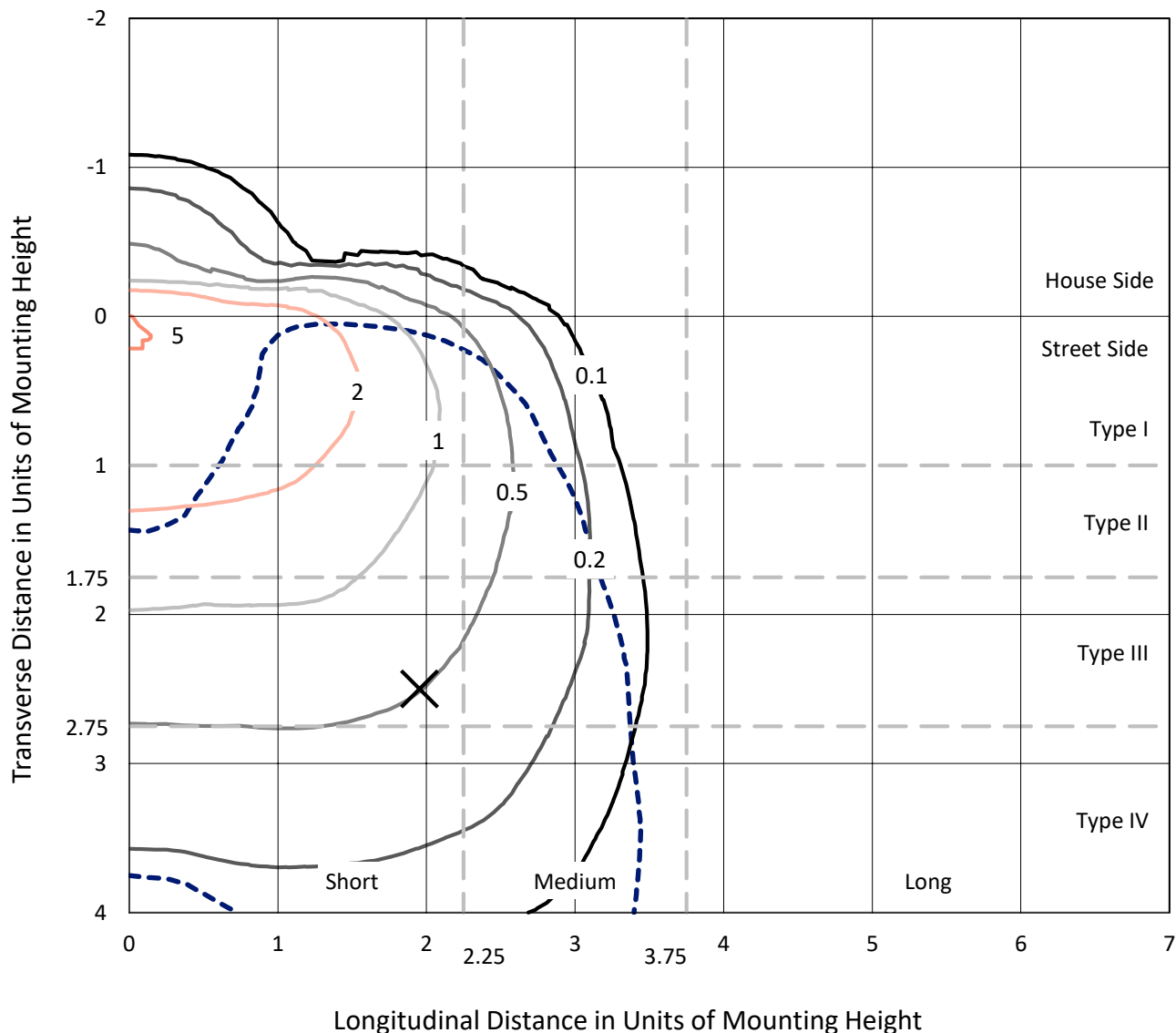
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

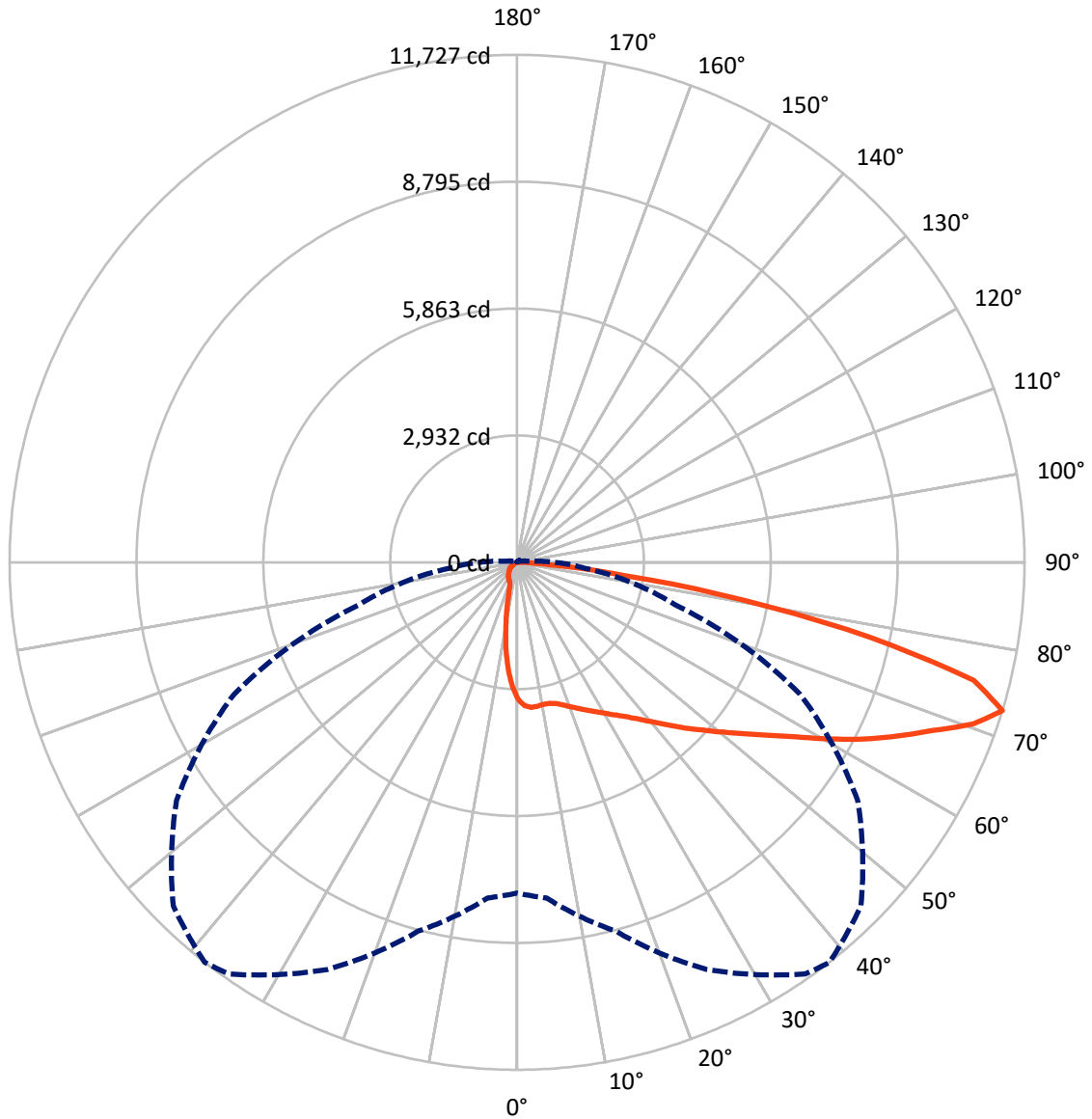
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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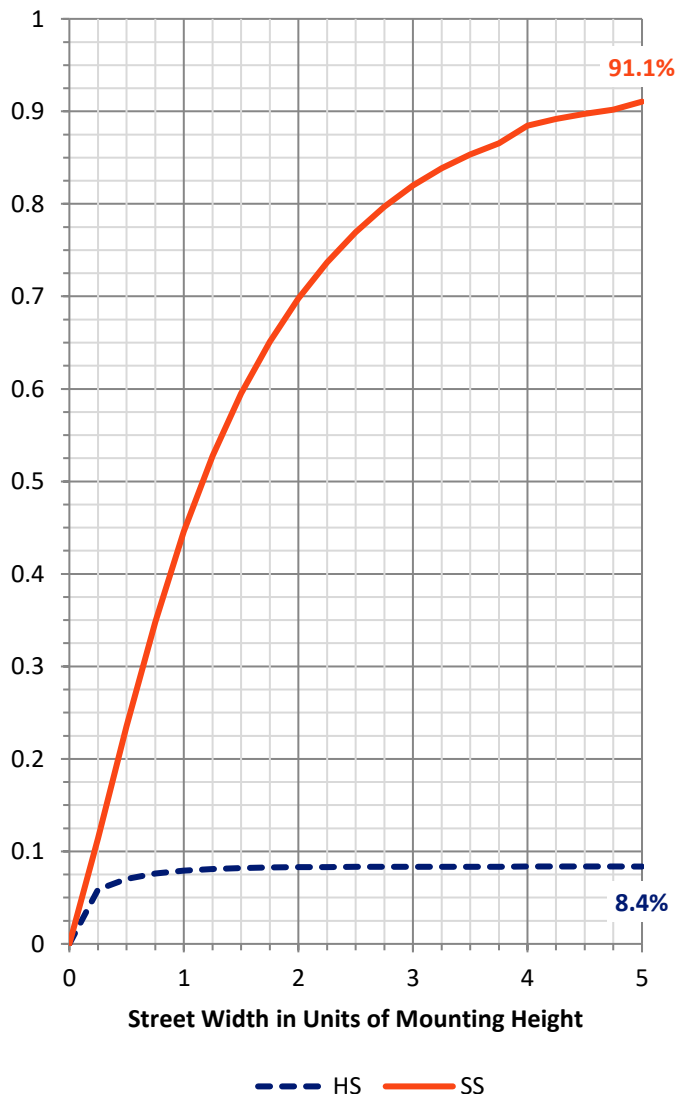
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1448.8	0.0	1448.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	15767.2	0.0	15767.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	17216.0	0.0	17216.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.8	1.6
10°-20°	659.7	3.8
20°-30°	1049.3	6.1
30°-40°	1577.5	9.2
40°-50°	2406.5	14.0
50°-60°	3401.3	19.8
60°-70°	4266.3	24.8
70°-80°	3190.0	18.5
80°-90°	395.5	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°	17216.0	100.0
0°-180°	17216.0	100.0

**Coefficient of Utilization**



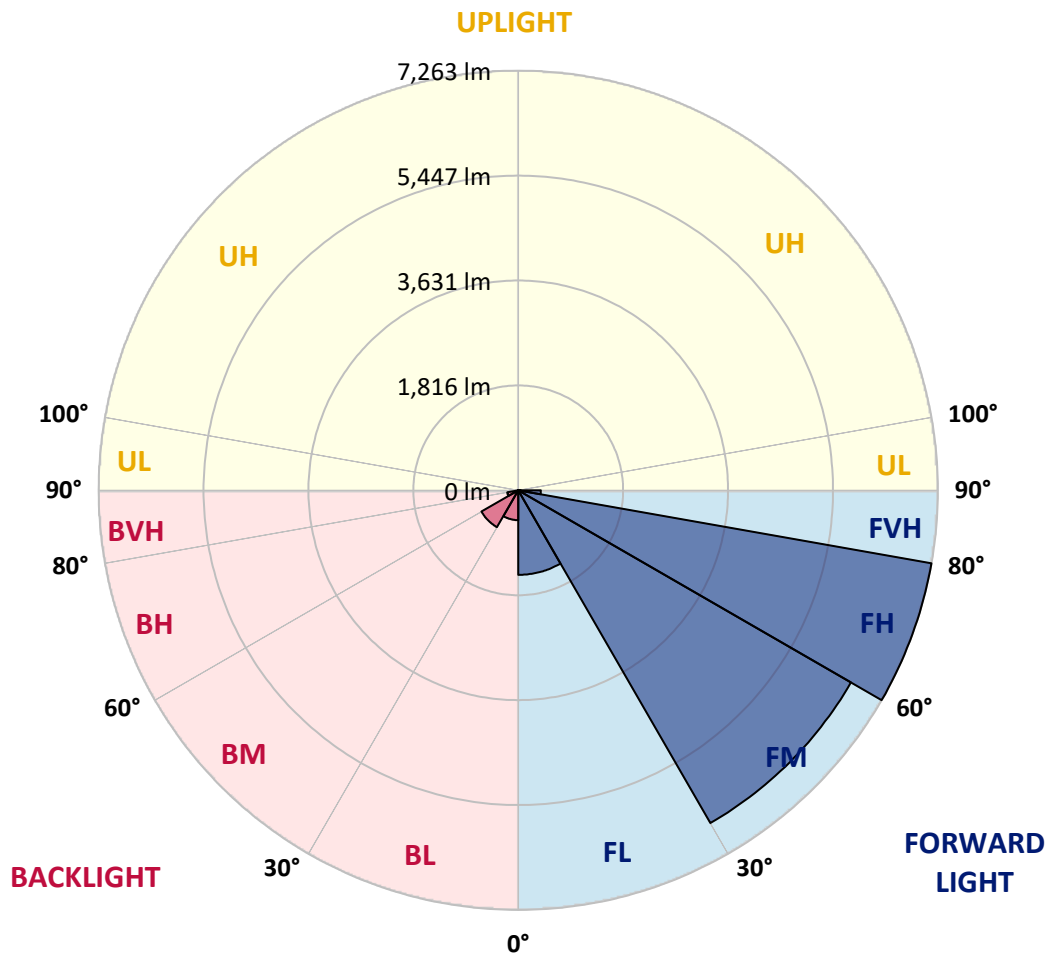
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1462.9	8.5			
FM (30°-60°)	6649.6	38.6			
FH (60°-80°)	7262.8	42.2			G3/7500
FVH (80°-90°)	391.9	2.3			G3/500
BL (0°-30°)	515.9	3.0	B2/1000		
BM (30°-60°)	735.7	4.3	B1/1000		
BH (60°-80°)	193.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0
2.5°	3360.4	3361.2	3353.3	3340.4	3324.0	3315.4	3301.1	3278.2	3253.9	3210.3	3163.1
5°	3429.1	3429.1	3419.1	3401.9	3375.5	3367.6	3340.4	3304.0	3253.9	3183.1	3103.8
7.5°	3421.9	3423.4	3409.8	3391.9	3365.4	3358.3	3325.4	3284.7	3222.4	3136.7	3035.1
10°	3384.8	3388.3	3377.6	3369.0	3344.7	3336.8	3306.1	3265.3	3203.1	3111.6	2995.1
12.5°	3346.9	3350.4	3354.0	3361.9	3346.9	3344.0	3319.7	3285.4	3226.0	3130.9	2999.4
15°	3322.5	3329.7	3355.4	3386.2	3389.8	3386.9	3371.2	3339.0	3278.9	3180.3	3030.1
17.5°	3322.5	3334.0	3387.6	3446.2	3467.0	3469.1	3455.5	3410.5	3339.0	3233.2	3058.7
20°	3350.4	3366.2	3449.8	3532.8	3567.1	3567.1	3540.6	3477.7	3394.0	3281.1	3078.0
22.5°	3421.9	3442.7	3547.8	3643.6	3680.0	3672.2	3636.4	3544.9	3451.2	3335.4	3102.3
25°	3562.8	3578.5	3687.9	3784.4	3806.6	3788.7	3743.7	3626.4	3524.2	3409.1	3146.7
27.5°	3744.4	3746.5	3859.5	3941.0	3927.4	3915.3	3858.8	3728.7	3629.3	3514.2	3223.2
30°	3943.9	3943.9	4043.3	4105.5	4064.0	4054.0	3997.5	3852.4	3763.7	3657.2	3331.8
32.5°	4136.9	4145.5	4226.3	4265.6	4219.1	4209.1	4154.1	4008.9	3942.4	3875.2	3501.3
35°	4323.5	4330.0	4406.5	4427.9	4383.6	4386.4	4347.1	4224.1	4199.1	4190.5	3756.5
37.5°	4504.4	4505.9	4583.8	4597.4	4575.2	4599.5	4603.1	4494.4	4540.9	4610.2	4116.2
40°	4669.6	4671.0	4748.2	4783.3	4821.2	4852.6	4880.5	4822.6	4976.3	5137.2	4544.5
42.5°	4801.9	4816.9	4914.8	4981.3	5081.4	5141.5	5217.3	5214.4	5494.7	5736.3	5062.1
45°	4918.4	4944.1	5080.7	5197.2	5368.8	5464.7	5583.3	5676.3	6078.1	6403.4	5586.2
47.5°	5072.1	5096.4	5252.3	5443.2	5672.0	5797.8	5994.5	6195.4	6719.5	7058.4	6098.1
50°	5288.8	5278.0	5431.8	5705.6	5999.5	6164.6	6444.9	6745.9	7355.8	7628.9	6399.1
52.5°	5519.7	5515.4	5629.1	5990.9	6385.6	6578.6	6949.0	7315.0	7964.2	8022.2	6537.1
55°	5805.7	5775.0	5870.8	6316.2	6843.9	7051.2	7487.4	7878.4	8449.0	8243.8	6606.5
57.5°	6105.3	6054.5	6146.0	6678.7	7360.8	7606.0	8083.7	8427.6	8771.5	8395.4	6605.8
60°	6414.9	6354.8	6463.5	7132.0	8002.9	8286.7	8730.0	8798.6	9072.5	8471.9	6557.2
62.5°	6673.7	6637.9	6799.5	7616.8	8720.0	8998.8	9218.3	9136.1	9326.3	8531.2	6443.5
65°	6947.5	6949.7	7210.7	8182.3	9482.2	9670.2	9688.8	9573.7	9538.7	8519.1	6058.8
67.5°	7317.9	7352.2	7787.6	8950.2	10223.6	10368.8	10367.3	10047.7	9693.8	8035.7	5205.8
70°	7709.7	7790.5	8452.6	9828.9	11033.0	11180.3	11104.5	10349.4	9127.5	6497.8	3684.3
72.5°	7643.9	7784.1	8822.2	10383.1	11614.3	11726.5	11233.9	9608.0	7214.2	3776.6	1568.7
75°	5897.2	6059.5	8089.4	9833.9	11004.4	10903.6	9652.3	7476.6	3942.4	1053.9	353.2
77.5°	3115.2	3201.7	5343.8	7491.6	8580.6	8369.6	6799.5	4147.6	1201.9	261.0	158.7
80°	1631.6	1651.6	2328.7	4250.6	5295.9	5297.3	4029.7	1821.8	495.5	133.7	106.5
82.5°	873.7	890.9	1230.5	1964.1	2774.9	2515.3	1542.9	1002.4	288.1	75.8	102.2
85°	210.2	213.8	697.8	897.3	1091.1	779.3	458.3	841.5	77.9	44.3	82.9
87.5°	80.8	82.2	258.8	388.2	278.1	180.2	214.5	313.9	10.0	17.2	12.9
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°	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0	3166.0
2.5°	3134.5	3115.9	3070.2	3012.2	2960.8	2923.6	2867.8	2831.4	2807.0	2806.3	2797.0
5°	3055.1	3017.2	2918.6	2801.3	2694.8	2599.0	2486.0	2396.6	2330.1	2319.4	2296.5
7.5°	2970.1	2907.9	2756.3	2573.2	2394.5	2212.9	2002.0	1871.1	1758.9	1705.2	1699.5
10°	2917.9	2830.6	2615.4	2350.9	2070.6	1775.3	1499.3	1308.4	1170.4	1131.1	1101.8
12.5°	2907.1	2792.0	2506.7	2142.1	1741.7	1351.3	1046.0	843.0	732.9	697.8	688.5
15°	2917.9	2774.2	2415.2	1935.5	1408.5	958.8	702.1	584.1	542.7	532.7	532.0
17.5°	2924.3	2752.7	2311.6	1706.0	1085.4	685.0	537.7	503.4	496.9	496.2	497.6
20°	2923.6	2719.8	2187.9	1450.0	807.2	538.4	486.2	479.0	477.6	478.3	477.6
22.5°	2918.6	2681.2	2052.0	1186.2	609.9	481.2	464.0	459.7	459.0	459.0	459.0
25°	2927.9	2650.5	1902.6	933.8	502.6	454.7	444.0	440.4	439.7	439.7	438.3
27.5°	2961.5	2633.3	1738.9	718.6	454.0	431.1	422.6	421.8	419.7	419.0	420.4
30°	3015.8	2633.3	1559.4	559.1	424.7	406.8	400.4	399.0	398.2	397.5	398.2
32.5°	3111.6	2653.3	1363.5	464.7	396.8	379.7	375.4	377.5	375.4	375.4	375.4
35°	3284.7	2713.4	1158.3	405.4	367.5	353.2	348.9	351.8	350.3	350.3	349.6
37.5°	3537.0	2824.9	951.6	369.6	341.8	326.7	321.0	325.3	323.9	323.9	323.2
40°	3844.5	2987.2	755.0	342.5	316.7	301.0	296.0	298.1	294.6	294.6	296.0
42.5°	4224.1	3193.1	583.4	316.0	291.7	276.7	273.8	271.7	265.3	261.7	262.4
45°	4646.0	3407.6	454.7	290.3	268.1	256.0	251.7	246.0	235.2	228.1	228.8
47.5°	5022.8	3572.8	369.6	265.3	246.7	237.4	230.9	220.2	204.5	195.9	196.6
50°	5220.8	3597.8	314.6	240.2	226.7	217.4	208.1	191.6	173.0	163.7	163.0
52.5°	5271.6	3480.6	273.8	217.4	206.6	195.9	183.8	161.6	140.9	130.8	129.4
55°	5290.2	3301.8	237.4	195.9	185.2	173.0	157.3	132.3	113.0	103.0	102.2
57.5°	5228.7	3035.1	208.8	176.6	163.7	148.7	129.4	105.8	87.2	79.4	79.4
60°	5092.1	2674.1	186.6	155.9	141.6	124.4	104.4	82.2	65.1	58.6	58.6
62.5°	4819.7	2206.5	165.9	134.4	120.8	103.0	84.4	62.2	45.8	42.2	42.9
65°	4305.7	1673.8	145.1	115.1	103.0	85.1	65.8	44.3	30.7	30.7	32.2
67.5°	3511.3	1162.6	123.7	98.0	88.7	69.4	50.0	30.7	21.4	24.3	27.2
70°	2324.4	652.1	105.8	80.8	75.8	55.1	37.2	20.7	17.2	22.9	27.9
72.5°	877.3	253.8	88.7	65.1	65.8	42.2	26.5	15.7	15.7	25.0	32.9
75°	244.5	124.4	63.6	47.9	51.5	30.7	19.3	13.6	15.0	28.6	38.6
77.5°	143.7	91.5	41.5	27.9	35.0	21.4	12.9	10.7	12.9	24.3	37.2
80°	115.8	48.6	24.3	14.3	19.3	12.2	8.6	6.4	3.6	9.3	19.3
82.5°	115.8	29.3	11.4	10.0	10.0	6.4	4.3	2.9	0.7	0.0	5.0
85°	77.9	12.2	7.1	6.4	5.0	2.1	1.4	0.7	0.0	0.0	0.0
87.5°	12.9	5.0	2.9	1.4	0.7	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)