

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: P323529

Luminaire Tested: **GAN-SA5C-740-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323529  
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-SA5C-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA 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: 30201 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

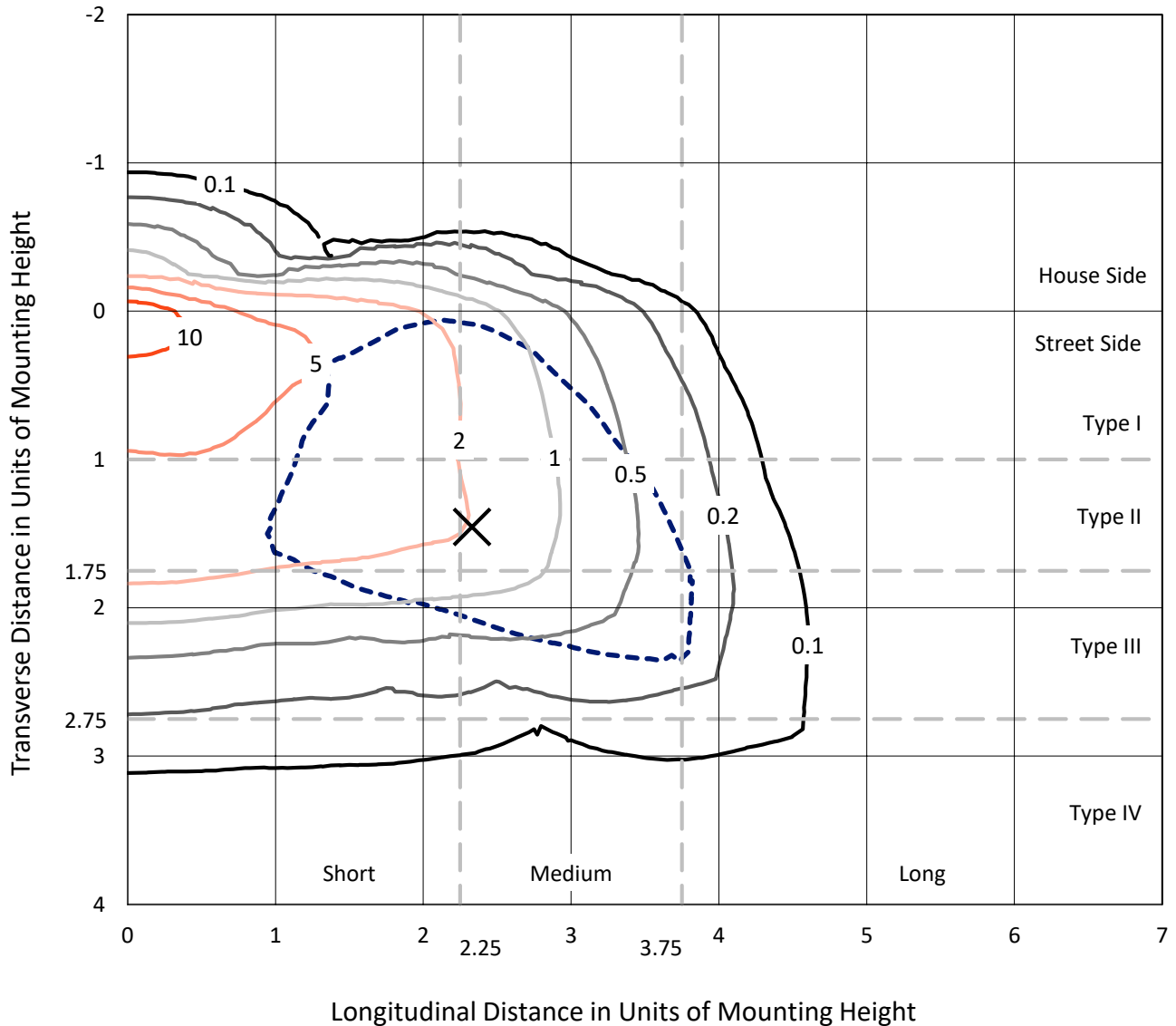
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

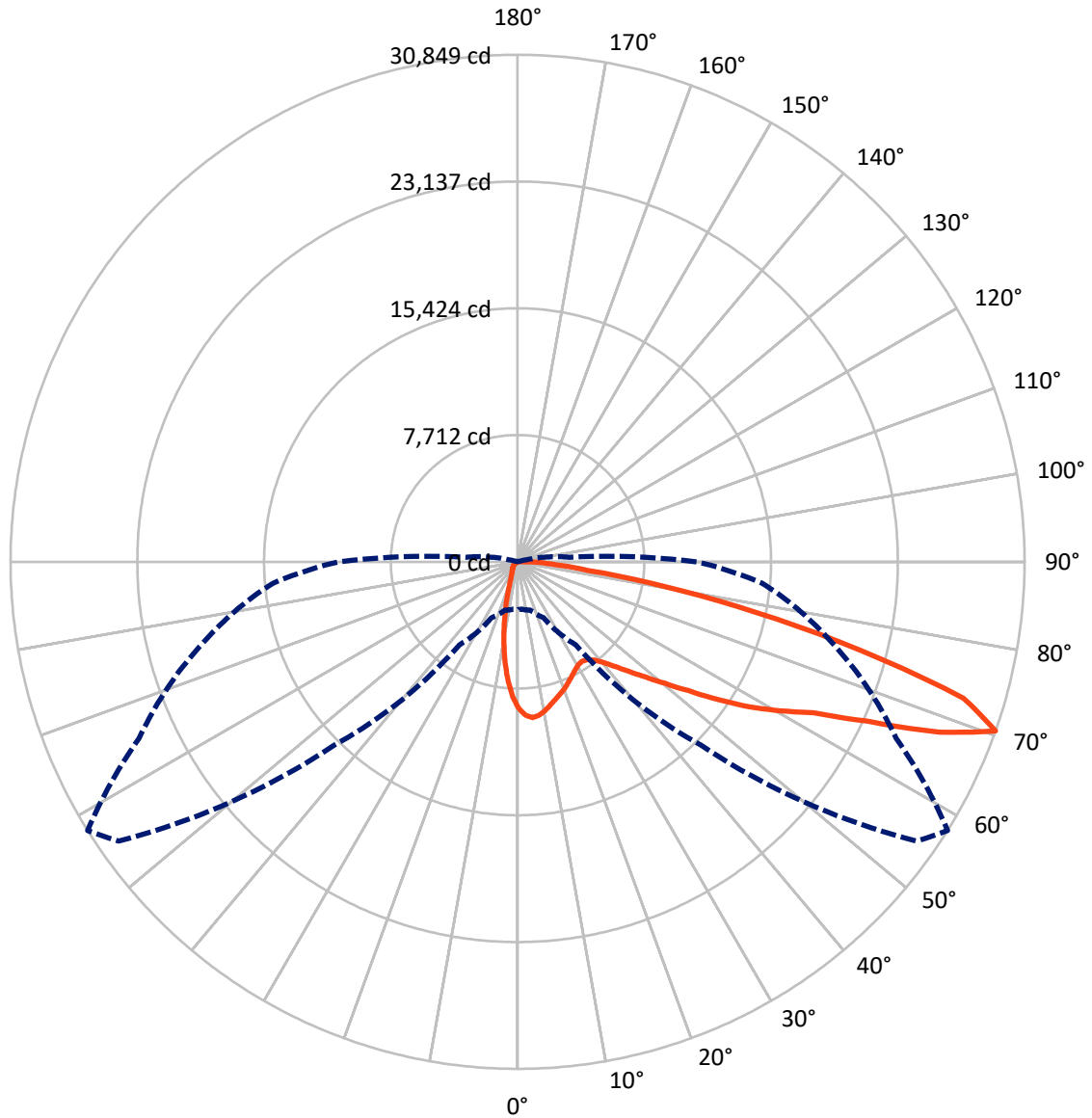
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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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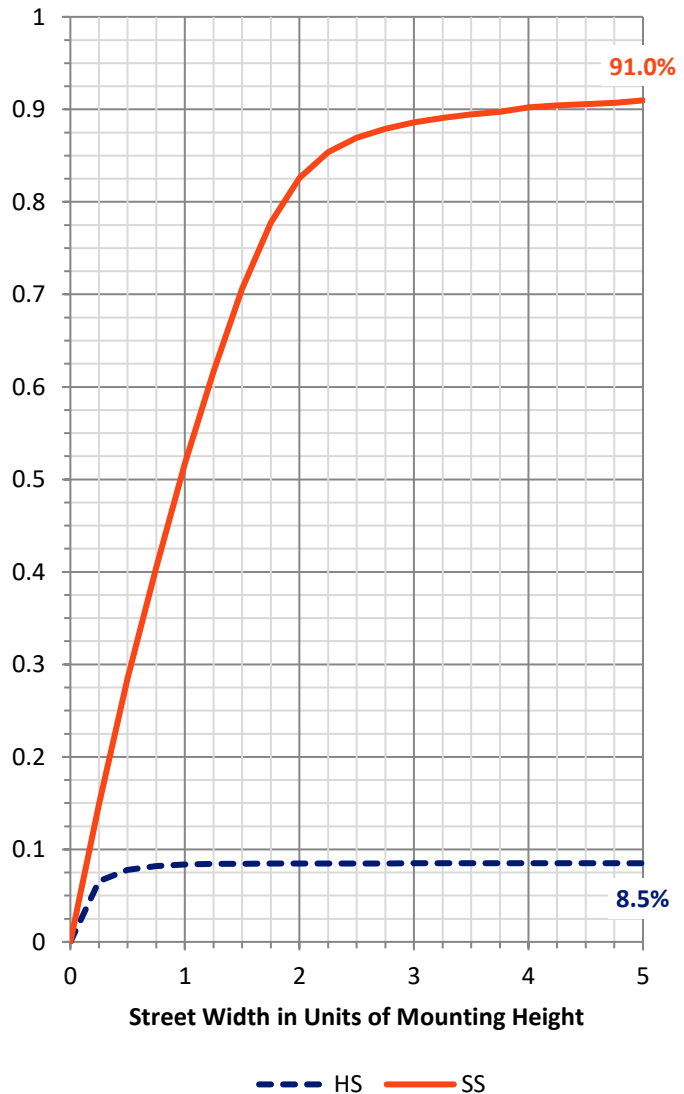
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2584.5	0.0	2584.5
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	27616.5	0.0	27616.5
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	30201.0	0.0	30201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.5	2.4
10°-20°	1531.1	5.1
20°-30°	2012.9	6.7
30°-40°	2665.8	8.8
40°-50°	3984.6	13.2
50°-60°	6383.2	21.1
60°-70°	8045.9	26.6
70°-80°	4339.9	14.4
80°-90°	508.0	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°	30201.0	100.0
0°-180°	30201.0	100.0

**Coefficient of Utilization**

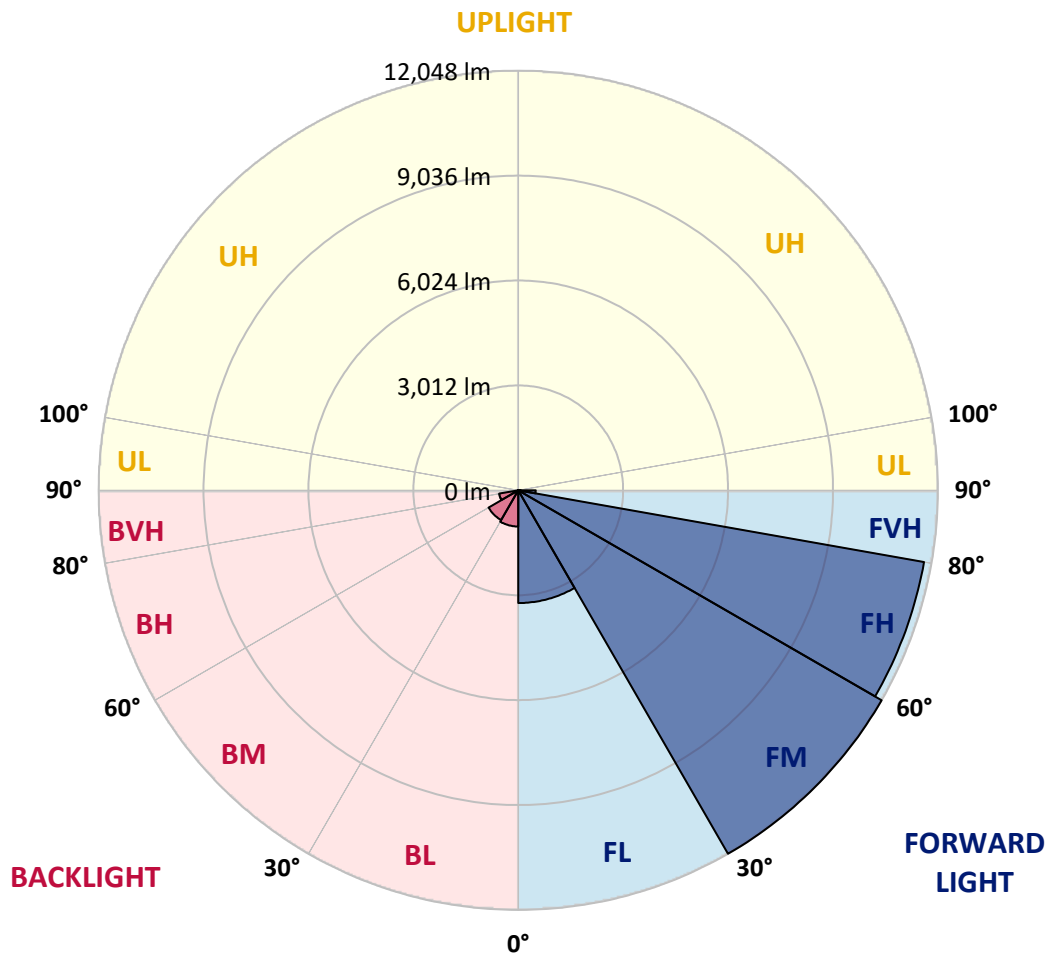


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3235.2	10.7			
FM (30°-60°)	12047.6	39.9			
FH (60°-80°)	11830.0	39.2			G4/12000
FVH (80°-90°)	503.6	1.7			G4/750
BL (0°-30°)	1038.4	3.4	B3/2500		
BM (30°-60°)	986.0	3.3	B1/1000		
BH (60°-80°)	555.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2
2.5°	9660.9	9637.0	9628.3	9613.2	9555.4	9498.9	9387.1	9355.7	9285.4	9118.4	8941.3
5°	9668.4	9667.2	9693.6	9687.3	9667.2	9640.8	9560.4	9519.0	9399.7	9161.1	8837.1
7.5°	9202.5	9226.4	9285.4	9333.1	9388.4	9460.0	9470.0	9429.8	9331.9	9074.4	8645.0
10°	8577.1	8614.8	8697.7	8791.9	8936.3	9079.5	9207.6	9202.5	9168.6	8915.0	8413.9
12.5°	7950.5	7994.4	8089.9	8229.3	8434.0	8667.6	8896.1	8927.5	8984.0	8771.8	8200.4
15°	7401.7	7439.4	7533.6	7704.4	7958.0	8272.0	8607.3	8665.0	8810.7	8660.0	8022.1
17.5°	6935.8	6959.7	7028.7	7218.4	7512.2	7892.7	8328.5	8441.5	8658.8	8572.1	7867.6
20°	6610.6	6614.3	6659.5	6792.6	7086.5	7512.2	8039.7	8201.7	8498.0	8496.8	7708.1
22.5°	6449.8	6437.3	6446.0	6522.6	6738.6	7149.3	7750.8	7943.0	8353.6	8432.7	7546.1
25°	6419.7	6409.6	6384.5	6394.6	6525.2	6831.6	7459.5	7681.8	8226.8	8393.8	7405.5
27.5°	6513.9	6523.9	6481.2	6436.0	6446.0	6625.6	7200.8	7458.2	8123.8	8393.8	7306.3
30°	6703.5	6708.5	6677.1	6618.1	6539.0	6567.9	7021.2	7278.6	8072.3	8451.6	7243.5
32.5°	6913.2	6940.8	6937.1	6889.3	6776.3	6659.5	6978.5	7213.3	8068.5	8579.7	7237.2
35°	7173.2	7204.5	7257.3	7247.2	7129.2	6937.1	7124.2	7308.8	8142.6	8790.6	7305.0
37.5°	7449.4	7497.2	7610.2	7664.2	7587.6	7370.3	7450.7	7582.5	8341.1	9132.2	7477.1
40°	7716.9	7770.9	7976.9	8189.1	8131.3	7907.8	7945.5	8051.0	8693.9	9623.2	7803.6
42.5°	7979.4	8059.8	8362.4	8711.5	8780.6	8602.3	8622.4	8706.5	9217.6	10298.8	8337.3
45°	8293.3	8383.7	8832.1	9262.8	9447.4	9369.6	9454.9	9510.2	9902.0	11191.7	9056.9
47.5°	8754.2	8858.4	9408.5	9899.5	10223.5	10273.7	10445.8	10482.2	10767.3	12231.5	9994.9
50°	9653.4	9682.2	10179.5	10625.4	11092.5	11393.9	11589.8	11617.4	11814.6	13368.0	11166.6
52.5°	10784.8	10803.7	11085.0	11383.9	11915.1	12530.4	12988.8	13027.7	13069.2	14475.7	12323.2
55°	11908.8	11906.3	12092.1	12268.0	12875.8	13769.9	14764.5	14788.3	14490.7	15526.8	13207.3
57.5°	12610.8	12678.6	12961.2	13187.2	14036.1	15182.7	16562.8	16650.7	15983.9	16305.4	14081.3
60°	12387.3	12419.9	13046.5	13882.9	15481.6	17190.7	18382.5	18405.1	17106.6	17082.7	15186.4
62.5°	10553.8	10571.4	11555.9	13280.1	16213.7	19795.2	20577.6	20209.7	18397.5	18161.4	16508.8
65°	7233.4	7347.7	8170.3	10301.4	14868.7	21429.0	23975.8	23366.7	20365.4	19716.1	17704.3
67.5°	4259.7	4235.8	4642.7	6212.5	10920.5	20344.0	28274.4	27669.1	23049.0	20757.2	17354.0
70°	2909.7	2893.4	3049.1	3761.1	6164.7	15781.7	29626.9	30848.8	25418.7	20056.4	14935.3
72.5°	2077.1	2085.9	2315.7	2922.3	3870.4	9195.0	25477.8	28369.9	24676.6	17484.6	11352.5
75°	1410.3	1434.1	1763.1	2397.3	3393.2	4677.9	18079.8	21565.9	20094.1	12707.5	6525.2
77.5°	758.5	784.9	1172.9	1931.4	3067.9	3250.0	11630.0	14842.3	12622.1	5712.7	1891.2
80°	316.5	331.5	548.8	1404.0	2651.0	2854.4	6842.9	9000.3	5378.6	1126.5	422.0
82.5°	136.9	144.4	228.6	837.6	1981.7	2409.9	3623.0	4330.0	1630.0	247.4	212.2
85°	26.4	27.6	94.2	443.3	1264.6	1360.0	2348.4	2301.9	732.1	106.7	154.5
87.5°	0.0	0.0	22.6	139.4	371.7	740.9	1432.9	1415.3	248.6	51.5	57.8
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°	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2	8921.2
2.5°	8850.9	8764.3	8582.2	8357.4	8185.3	7995.7	7845.0	7654.1	7571.2	7575.0	7529.8
5°	8652.5	8474.2	8071.1	7562.5	7170.6	6766.3	6418.4	6071.8	5867.1	5800.6	5737.8
7.5°	8368.7	8086.1	7443.2	6659.5	5996.5	5348.5	4784.6	4288.6	3974.6	3821.4	3764.9
10°	8048.4	7651.6	6721.1	5688.8	4741.9	3865.4	3134.5	2499.1	2245.4	2073.3	2029.4
12.5°	7767.1	7229.7	6015.3	4692.9	3569.0	2511.6	1814.6	1419.1	1247.0	1179.2	1167.9
15°	7502.2	6835.3	5335.9	3791.3	2471.4	1545.9	1154.1	1019.7	979.5	968.2	968.2
17.5°	7252.3	6459.9	4671.6	2903.4	1635.1	1083.8	955.7	925.5	913.0	911.7	913.0
20°	6991.1	6084.4	4018.6	2127.3	1141.5	918.0	882.8	866.5	862.7	862.7	862.7
22.5°	6741.2	5708.9	3383.1	1519.5	915.5	837.6	820.0	808.7	805.0	803.7	801.2
25°	6501.3	5352.2	2762.8	1073.7	803.7	767.3	752.2	737.2	725.9	719.6	715.8
27.5°	6304.1	5034.5	2185.1	861.5	725.9	694.5	675.6	653.0	625.4	612.8	607.8
30°	6147.2	4744.4	1684.0	727.1	653.0	621.6	592.7	553.8	513.6	492.3	491.0
32.5°	6024.1	4459.4	1278.4	643.0	587.7	548.8	507.3	458.4	411.9	388.0	386.8
35°	5963.8	4208.2	977.0	581.4	529.9	481.0	429.5	375.5	330.3	307.7	305.2
37.5°	6004.0	3996.0	762.3	529.9	481.0	424.5	364.2	307.7	267.5	247.4	246.1
40°	6150.9	3860.3	619.1	486.0	439.5	370.5	305.2	252.4	218.5	202.2	200.9
42.5°	6463.6	3810.1	528.7	449.6	399.3	320.2	253.7	208.5	177.1	165.8	163.3
45°	6986.0	3884.2	467.2	414.4	357.9	272.5	209.7	170.8	143.2	134.4	133.1
47.5°	7681.8	4078.9	423.2	380.5	320.2	229.8	174.6	138.1	116.8	108.0	106.7
50°	8578.4	4387.8	386.8	346.6	285.1	194.6	144.4	109.3	90.4	84.1	84.1
52.5°	9554.2	4755.7	354.1	315.2	249.9	162.0	116.8	84.1	71.6	64.0	64.0
55°	10360.4	5077.2	319.0	291.3	207.2	134.4	89.2	64.0	52.7	49.0	49.0
57.5°	11165.4	5420.1	278.8	249.9	165.8	109.3	67.8	47.7	38.9	36.4	36.4
60°	12208.9	5839.5	239.9	203.4	130.6	82.9	50.2	33.9	28.9	27.6	27.6
62.5°	13356.7	6085.6	204.7	163.3	101.7	61.5	36.4	22.6	21.3	21.3	20.1
65°	14058.7	5737.8	172.0	130.6	79.1	46.5	23.9	16.3	18.8	17.6	15.1
67.5°	13163.3	4492.0	140.7	101.7	61.5	35.2	15.1	11.3	20.1	16.3	12.6
70°	10899.1	3144.5	109.3	71.6	49.0	30.1	10.0	7.5	21.3	16.3	10.0
72.5°	8156.4	2104.7	86.7	47.7	36.4	26.4	8.8	3.8	18.8	13.8	8.8
75°	4456.8	847.7	69.1	30.1	22.6	18.8	6.3	2.5	12.6	10.0	6.3
77.5°	1172.9	223.5	50.2	20.1	12.6	7.5	3.8	1.3	6.3	5.0	2.5
80°	298.9	86.7	32.7	13.8	8.8	3.8	0.0	0.0	1.3	0.0	0.0
82.5°	159.5	36.4	20.1	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	120.6	23.9	11.3	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.5	7.5	3.8	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)