

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: P323803

Luminaire Tested: **GAN-SA9B-730-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323803  
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-SA9B-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA 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: 37760 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

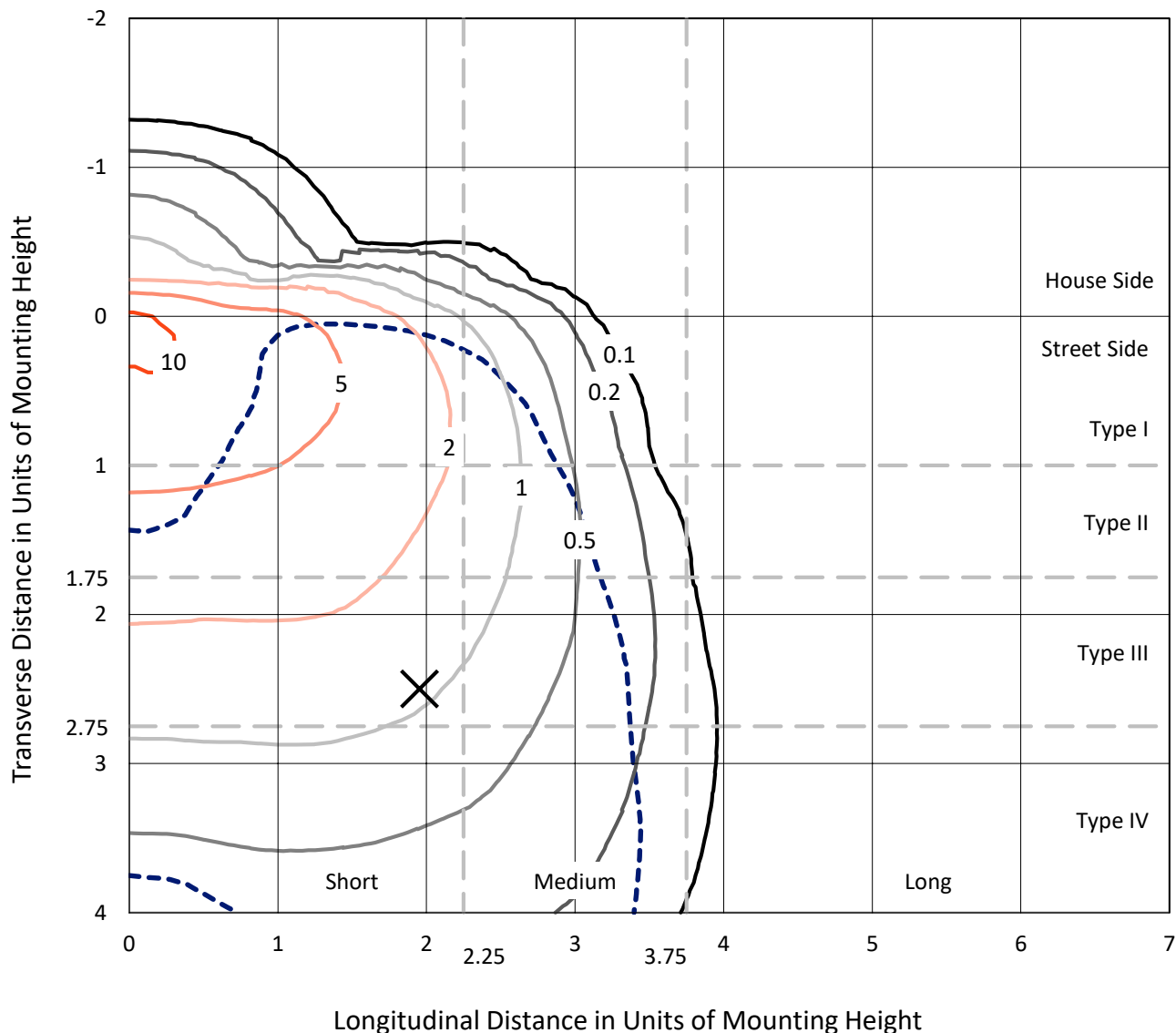
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

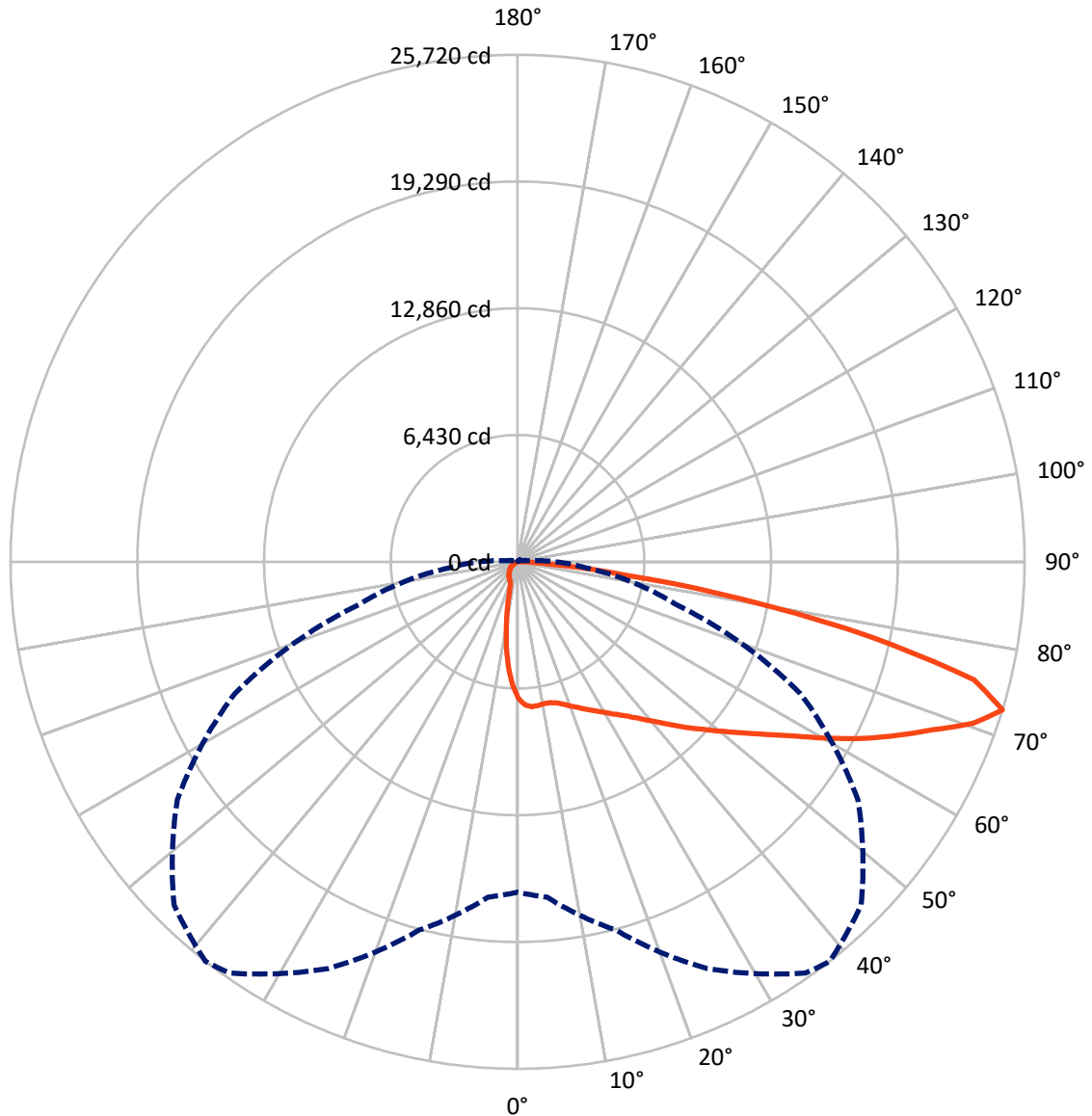
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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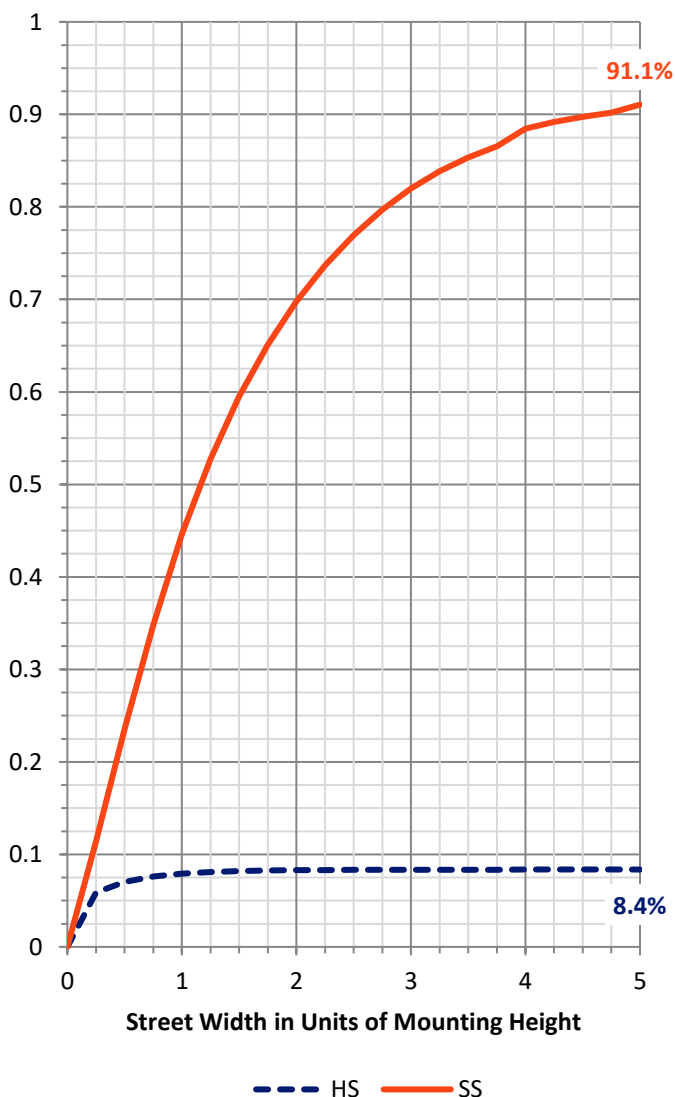
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3177.6	0.0	3177.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	34582.4	0.0	34582.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	37760.0	0.0	37760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.8	1.6
10°-20°	1447.0	3.8
20°-30°	2301.4	6.1
30°-40°	3459.9	9.2
40°-50°	5278.3	14.0
50°-60°	7460.0	19.8
60°-70°	9357.4	24.8
70°-80°	6996.7	18.5
80°-90°	867.6	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°	37760.0	100.0
0°-180°	37760.0	100.0

**Coefficient of Utilization**

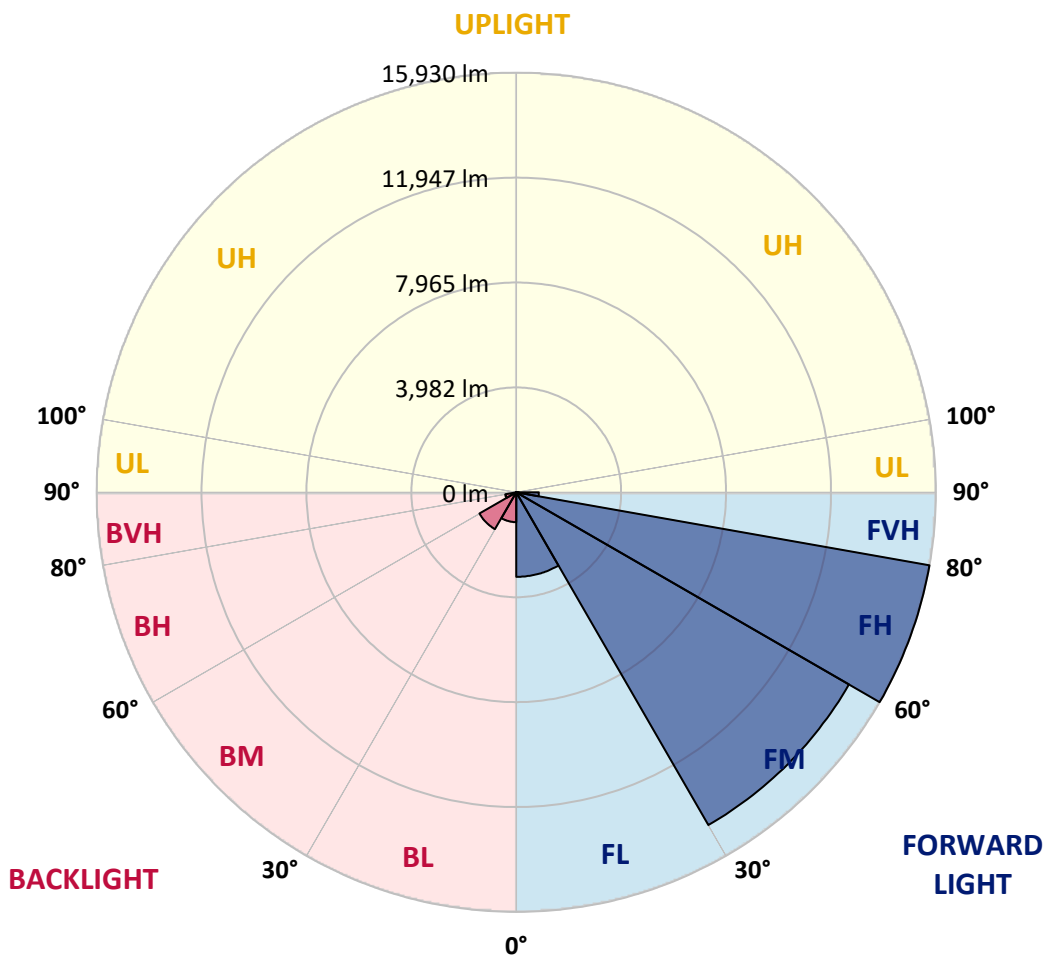


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3208.7	8.5			
FM (30°-60°)	14584.6	38.6			
FH (60°-80°)	15929.6	42.2			G5
FVH (80°-90°)	859.5	2.3			G5
BL (0°-30°)	1131.4	3.0	B3/2500		
BM (30°-60°)	1613.6	4.3	B2/2500		
BH (60°-80°)	424.5	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9
2.5°	7370.5	7372.1	7354.8	7326.6	7290.5	7271.7	7240.3	7190.1	7136.8	7041.2	6937.7
5°	7521.0	7521.0	7499.1	7461.4	7403.4	7386.2	7326.6	7246.6	7136.8	6981.6	6807.5
7.5°	7505.4	7508.5	7478.7	7439.5	7381.5	7365.8	7293.6	7204.3	7067.8	6879.6	6657.0
10°	7423.8	7431.6	7408.1	7389.3	7336.0	7318.7	7251.3	7161.9	7025.5	6824.8	6569.1
12.5°	7340.7	7348.5	7356.4	7373.6	7340.7	7334.4	7281.1	7205.8	7075.7	6867.1	6578.6
15°	7287.4	7303.1	7359.5	7426.9	7434.8	7428.5	7394.0	7323.4	7191.7	6975.3	6646.0
17.5°	7287.4	7312.5	7430.1	7558.7	7604.1	7608.9	7579.1	7480.3	7323.4	7091.3	6708.7
20°	7348.5	7383.0	7566.5	7748.4	7823.7	7823.7	7765.7	7627.7	7444.2	7196.4	6751.1
22.5°	7505.4	7550.8	7781.4	7991.5	8071.5	8054.2	7975.8	7775.1	7569.6	7315.6	6804.4
25°	7814.3	7848.8	8088.7	8300.4	8349.0	8309.8	8211.0	7953.9	7729.6	7477.1	6901.6
27.5°	8212.6	8217.3	8465.1	8643.9	8614.1	8587.4	8463.5	8178.1	7960.1	7707.6	7069.4
30°	8650.1	8650.1	8868.1	9004.5	8913.6	8891.6	8767.7	8449.4	8254.9	8021.3	7307.8
32.5°	9073.5	9092.4	9269.6	9355.8	9253.9	9231.9	9111.2	8792.8	8647.0	8499.6	7679.4
35°	9482.8	9497.0	9664.7	9711.8	9614.6	9620.8	9534.6	9264.9	9210.0	9191.2	8239.3
37.5°	9879.6	9882.7	10053.7	10083.5	10034.8	10088.2	10096.0	9857.6	9959.6	10111.7	9028.1
40°	10241.8	10245.0	10414.3	10491.2	10574.3	10643.3	10704.5	10577.4	10914.6	11267.4	9967.4
42.5°	10532.0	10564.9	10779.7	10925.6	11145.1	11276.8	11443.1	11436.8	12051.5	12581.6	11102.8
45°	10787.6	10844.0	11143.5	11399.2	11775.5	11985.7	12246.0	12449.9	13331.2	14044.7	12252.3
47.5°	11124.7	11178.0	11519.9	11938.6	12440.4	12716.4	13147.7	13588.4	14737.8	15481.2	13375.1
50°	11599.9	11576.4	11913.5	12514.1	13158.7	13520.9	14135.7	14795.9	16133.5	16732.6	14035.3
52.5°	12106.4	12097.0	12346.3	13139.9	14005.5	14428.9	15241.2	16044.1	17468.1	17595.1	14337.9
55°	12733.7	12666.3	12876.4	13853.4	15010.7	15465.5	16422.1	17279.9	18531.3	18081.2	14490.1
57.5°	13390.8	13279.4	13480.2	14648.5	16144.5	16682.4	17729.9	18484.2	19238.5	18413.7	14488.5
60°	14069.8	13938.1	14176.4	15642.7	17552.7	18175.3	19147.6	19298.1	19898.7	18581.5	14381.9
62.5°	14637.5	14559.1	14913.5	16705.9	19125.6	19737.2	20218.7	20038.3	20455.5	18711.6	14132.5
65°	15238.1	15242.8	15815.2	17946.4	20797.3	21209.8	21250.5	20998.0	20921.2	18685.0	13288.8
67.5°	16050.4	16125.7	17080.7	19630.6	22423.5	22741.9	22738.7	22037.8	21261.5	17624.9	11418.0
70°	16909.8	17087.0	18539.1	21557.9	24198.7	24521.8	24355.5	22699.5	20019.5	14251.7	8080.9
72.5°	16765.5	17072.9	19349.9	22773.2	25473.7	25719.9	24639.4	21073.3	15823.0	8283.2	3440.6
75°	12934.4	13290.4	17742.5	21568.9	24136.0	23914.9	21170.5	16398.5	8647.0	2311.5	774.7
77.5°	6832.6	7022.3	11720.6	16431.5	18819.8	18357.2	14913.5	9097.1	2636.1	572.4	348.1
80°	3578.6	3622.5	5107.6	9322.9	11615.6	11618.7	8838.3	3995.7	1086.8	293.3	233.7
82.5°	1916.3	1954.0	2698.9	4307.8	6086.1	5516.9	3384.2	2198.6	632.0	166.2	224.3
85°	461.0	468.9	1530.6	1968.1	2393.1	1709.3	1005.2	1845.8	170.9	97.2	181.9
87.5°	177.2	180.3	567.7	851.5	610.0	395.2	470.5	688.4	22.0	37.6	28.2
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°	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9	6943.9
2.5°	6874.9	6834.2	6733.8	6606.8	6493.9	6412.3	6290.0	6210.0	6156.7	6155.1	6134.8
5°	6700.9	6617.8	6401.3	6144.2	5910.5	5700.4	5452.6	5256.6	5110.7	5087.2	5037.0
7.5°	6514.3	6377.8	6045.4	5643.9	5251.9	4853.5	4390.9	4103.9	3857.7	3740.1	3727.6
10°	6399.8	6208.5	5736.4	5156.2	4541.5	3893.8	3288.5	2869.8	2567.1	2480.9	2416.6
12.5°	6376.3	6123.8	5498.1	4698.3	3820.1	2963.9	2294.3	1848.9	1607.4	1530.6	1510.2
15°	6399.8	6084.6	5297.3	4245.1	3089.3	2102.9	1540.0	1281.2	1190.3	1168.3	1166.7
17.5°	6413.9	6037.5	5070.0	3741.7	2380.5	1502.3	1179.3	1104.0	1089.9	1088.3	1091.5
20°	6412.3	5965.4	4798.7	3180.3	1770.5	1180.8	1066.4	1050.7	1047.6	1049.1	1047.6
22.5°	6401.3	5880.7	4500.7	2601.6	1337.7	1055.4	1017.8	1008.3	1006.8	1006.8	1006.8
25°	6421.7	5813.3	4173.0	2048.1	1102.4	997.4	973.8	966.0	964.4	964.4	961.3
27.5°	6495.4	5775.6	3813.8	1576.0	995.8	945.6	926.8	925.2	920.5	919.0	922.1
30°	6614.6	5775.6	3420.2	1226.3	931.5	892.3	878.2	875.0	873.5	871.9	873.5
32.5°	6824.8	5819.5	2990.5	1019.3	870.3	832.7	823.3	828.0	823.3	823.3	823.3
35°	7204.3	5951.3	2540.5	889.2	806.0	774.7	765.3	771.5	768.4	768.4	766.8
37.5°	7757.8	6195.9	2087.3	810.8	749.6	716.7	704.1	713.5	710.4	710.4	708.8
40°	8432.2	6551.9	1656.0	751.2	694.7	660.2	649.2	653.9	646.1	646.1	649.2
42.5°	9264.9	7003.5	1279.6	693.1	639.8	606.9	600.6	595.9	581.8	574.0	575.5
45°	10190.1	7474.0	997.4	636.7	588.1	561.4	552.0	539.5	515.9	500.3	501.8
47.5°	11016.5	7836.2	810.8	581.8	541.0	520.6	506.5	483.0	448.5	429.7	431.3
50°	11450.9	7891.1	690.0	526.9	497.1	476.7	456.3	420.3	379.5	359.1	357.5
52.5°	11562.3	7633.9	600.6	476.7	453.2	429.7	403.0	354.4	308.9	287.0	283.8
55°	11603.0	7241.9	520.6	429.7	406.2	379.5	345.0	290.1	247.8	225.8	224.3
57.5°	11468.2	6657.0	457.9	387.3	359.1	326.2	283.8	232.1	191.3	174.1	174.1
60°	11168.6	5865.0	409.3	341.9	310.5	272.9	229.0	180.3	142.7	128.6	128.6
62.5°	10571.2	4839.4	363.8	294.8	265.0	225.8	185.0	136.4	100.4	92.5	94.1
65°	9443.6	3671.1	318.3	252.5	225.8	186.6	144.3	97.2	67.4	67.4	70.6
67.5°	7701.4	2549.9	271.3	214.8	194.5	152.1	109.8	67.4	47.0	53.3	59.6
70°	5098.2	1430.2	232.1	177.2	166.2	120.8	81.5	45.5	37.6	50.2	61.2
72.5°	1924.2	556.7	194.5	142.7	144.3	92.5	58.0	34.5	34.5	54.9	72.1
75°	536.3	272.9	139.6	105.1	112.9	67.4	42.3	29.8	32.9	62.7	84.7
77.5°	315.2	200.7	91.0	61.2	76.8	47.0	28.2	23.5	28.2	53.3	81.5
80°	254.0	106.6	53.3	31.4	42.3	26.7	18.8	14.1	7.8	20.4	42.3
82.5°	254.0	64.3	25.1	22.0	22.0	14.1	9.4	6.3	1.6	0.0	11.0
85°	170.9	26.7	15.7	14.1	11.0	4.7	3.1	1.6	0.0	0.0	0.0
87.5°	28.2	11.0	6.3	3.1	1.6	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)