

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: P321900

Luminaire Tested: **GAN-SA6D-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30064 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

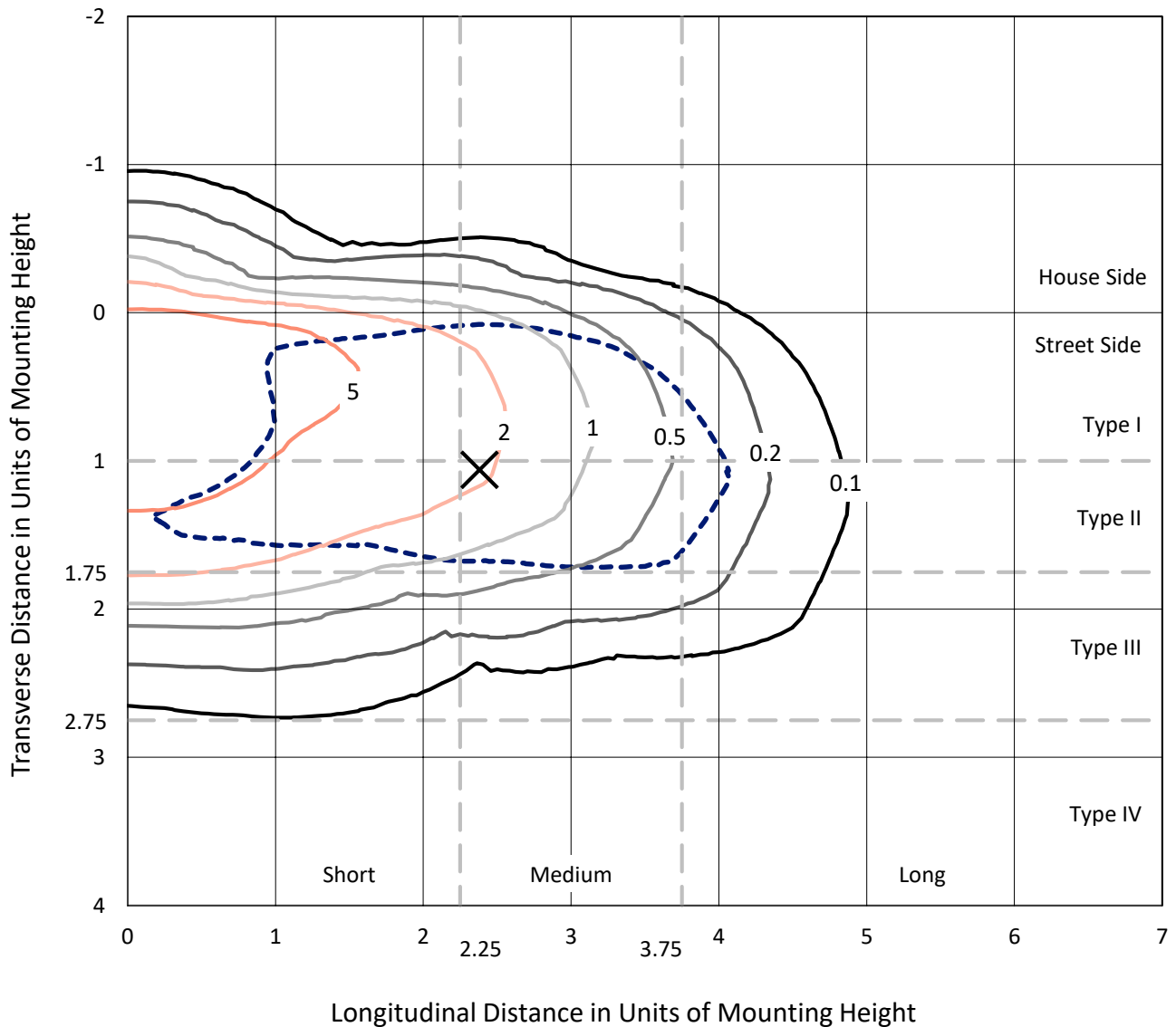
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321900
 CATALOG NUMBER: GAN-SA6D-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

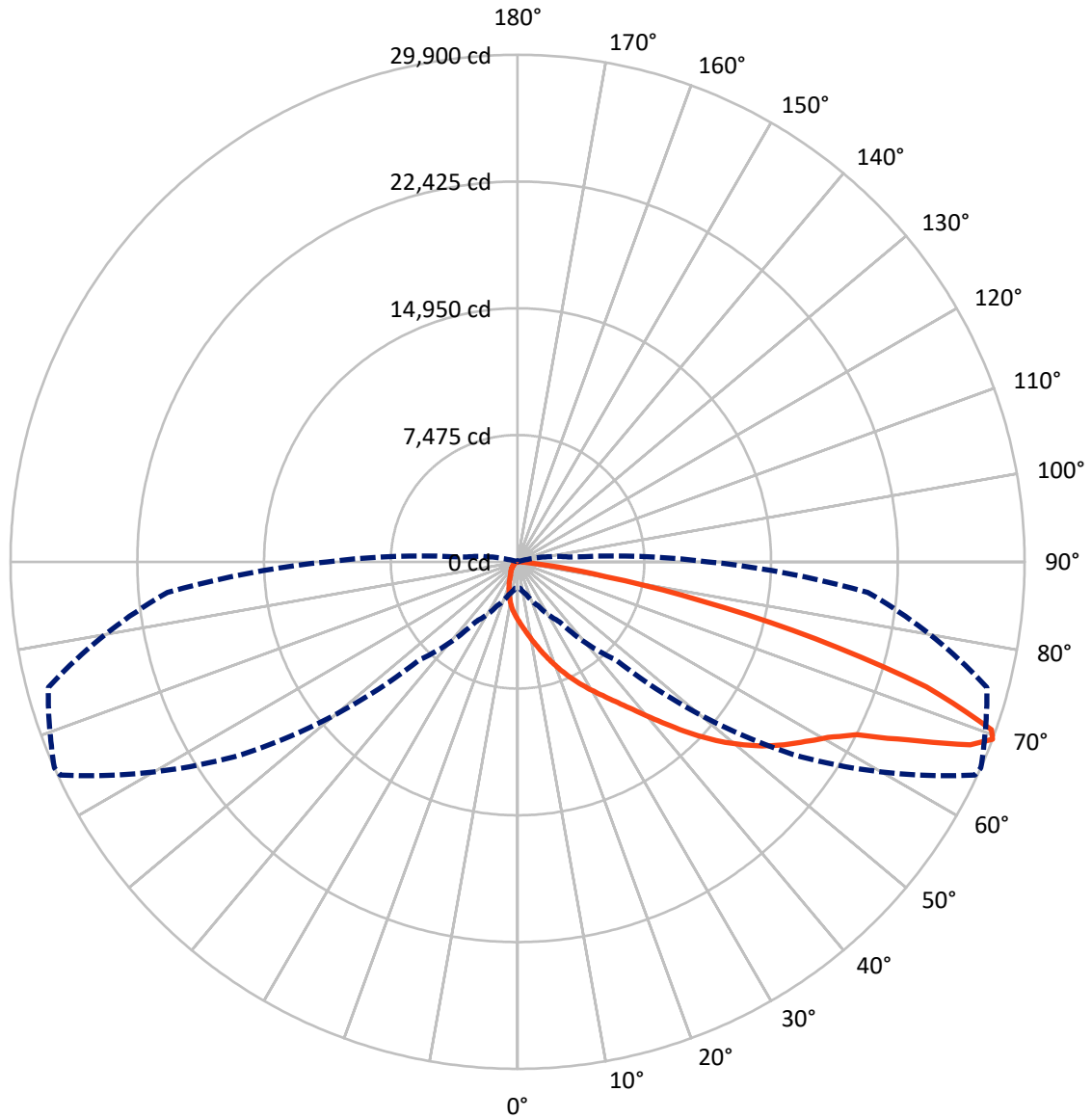
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P321900
CATALOG NUMBER: GAN-SA6D-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA6D-730-U-T2-HSS

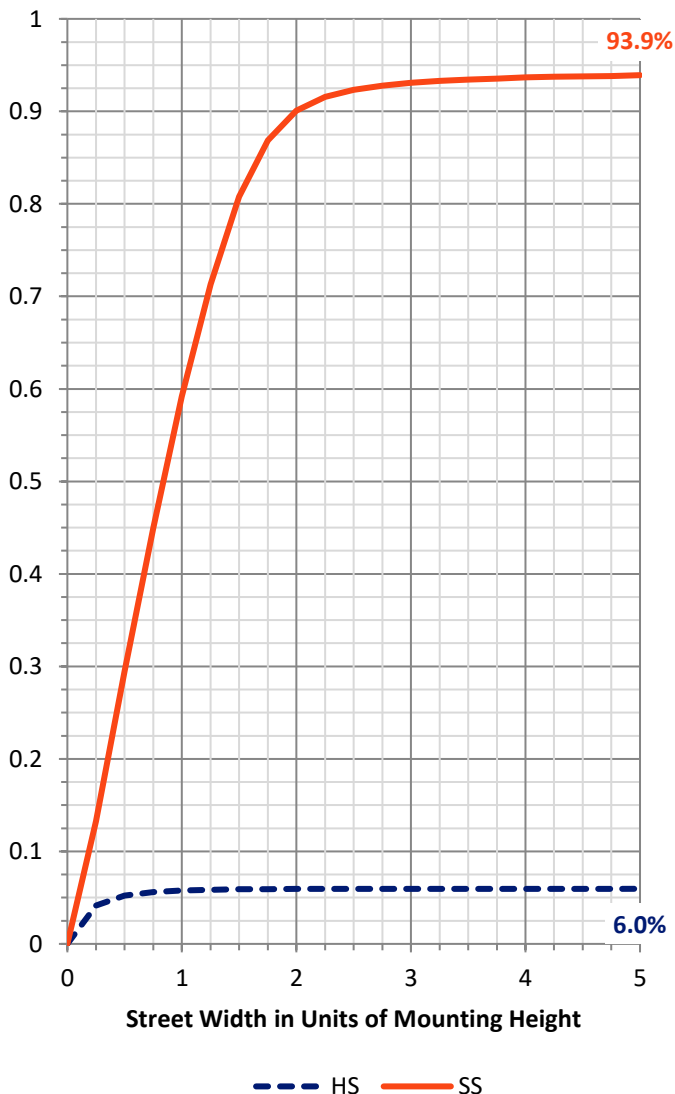
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1803.4	0.0	1803.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	28260.6	0.0	28260.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	30064.0	0.0	30064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.7	1.1
10°-20°	984.3	3.3
20°-30°	1714.0	5.7
30°-40°	3007.2	10.0
40°-50°	5033.6	16.7
50°-60°	7399.0	24.6
60°-70°	7596.9	25.3
70°-80°	3750.4	12.5
80°-90°	248.0	0.8
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°	30064.0	100.0
0°-180°	30064.0	100.0

Coefficient of Utilization

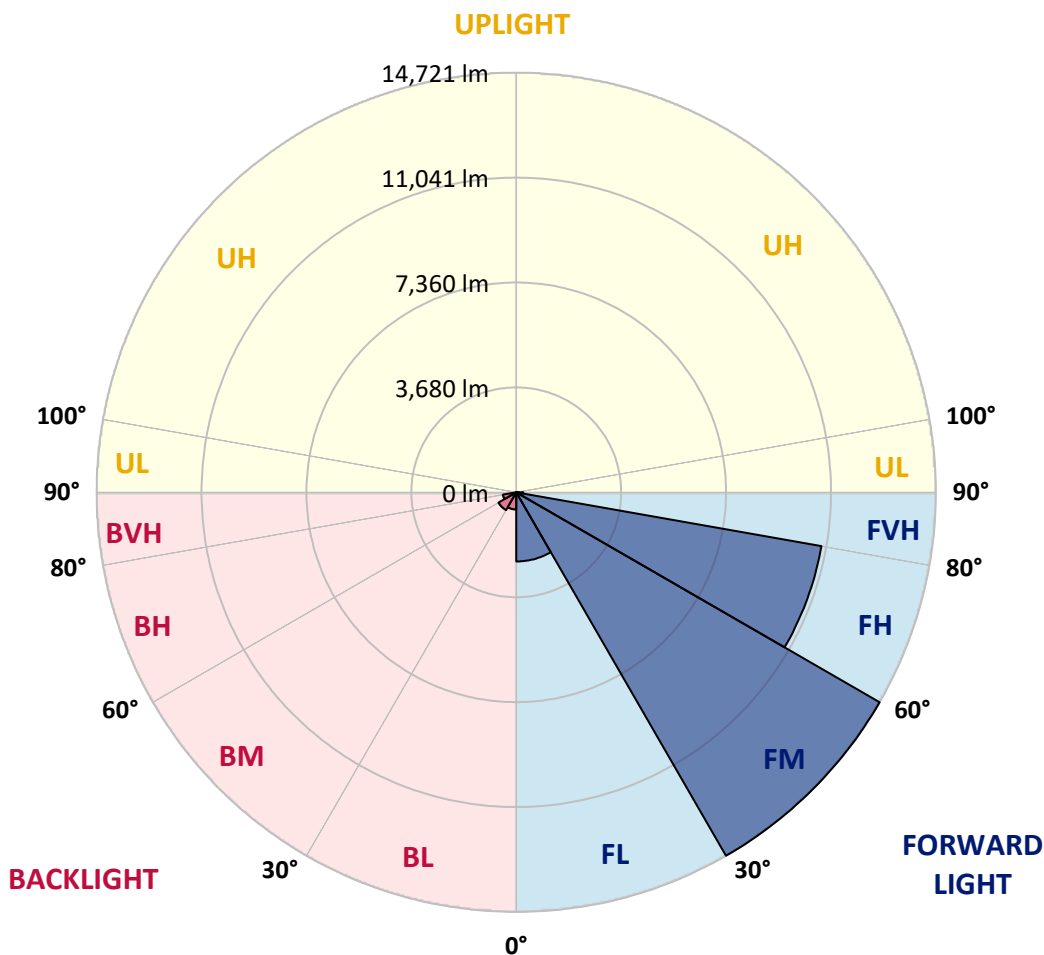


REPORT NUMBER: P321900
 CATALOG NUMBER: GAN-SA6D-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.9	8.1			
FM (30°-60°)	14720.8	49.0			
FH (60°-80°)	10871.9	36.2			G4/12000
FVH (80°-90°)	242.0	0.8			G3/500
BL (0°-30°)	603.1	2.0	B2/1000		
BM (30°-60°)	719.0	2.4	B1/1000		
BH (60°-80°)	475.3	1.6	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





REPORT NUMBER: P321900

CATALOG NUMBER: GAN-SA6D-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	4026.8	4009.7	4002.6	3971.1	3916.9	3875.5	3795.5	3702.7	3685.6	3595.6	3485.6
5°	4549.5	4535.2	4525.2	4480.9	4425.2	4321.0	4175.3	4002.6	3969.7	3798.4	3578.5
7.5°	4913.6	4939.3	4939.3	4910.7	4840.8	4762.2	4583.7	4348.1	4306.7	4044.0	3702.7
10°	5126.4	5157.8	5182.0	5206.3	5196.3	5164.9	4996.4	4730.8	4680.8	4332.4	3846.9
12.5°	5146.3	5177.8	5246.3	5347.7	5446.2	5517.6	5411.9	5154.9	5097.8	4666.6	4018.3
15°	5035.0	5067.8	5173.5	5370.5	5609.0	5817.5	5851.8	5624.7	5566.2	5065.0	4232.5
17.5°	4840.8	4862.2	5013.5	5286.3	5660.4	6043.1	6250.2	6128.8	6074.5	5520.5	4470.9
20°	4696.5	4712.3	4845.1	5137.8	5629.0	6184.5	6627.1	6664.3	6607.1	6008.8	4729.4
22.5°	4943.6	4972.1	4976.4	5114.9	5543.3	6254.4	6958.4	7191.2	7148.3	6527.2	4983.6
25°	5619.0	5651.8	5543.3	5457.6	5616.1	6285.9	7242.6	7730.9	7696.7	7085.5	5239.2
27.5°	6511.5	6545.7	6405.8	6150.2	5997.4	6404.4	7495.3	8279.3	8277.9	7676.7	5514.8
30°	7388.2	7422.5	7279.7	7024.1	6672.8	6739.9	7713.8	8853.3	8861.9	8286.4	5807.5
32.5°	8307.8	8350.7	8203.6	7875.2	7508.2	7319.7	8020.8	9430.2	9478.8	8993.3	6137.3
35°	9353.1	9358.8	9151.8	8807.6	8385.0	8095.1	8513.5	10077.1	10192.7	9868.6	6555.7
37.5°	10378.4	10419.8	10249.9	9707.2	9318.8	8990.4	9246.0	10885.3	11049.5	10938.1	7102.6
40°	11138.0	11225.2	11200.9	10615.4	10247.0	10012.8	10155.6	11846.3	12054.8	12183.3	7792.3
42.5°	11615.0	11680.7	11792.1	11439.3	11105.2	11143.8	11229.4	12965.8	13222.9	13602.7	8584.9
45°	12161.9	12193.3	12286.1	12130.5	11904.9	12293.3	12368.9	14226.7	14496.6	15129.2	9464.5
47.5°	12830.2	12904.4	12930.1	12787.3	12684.5	13310.0	13467.0	15373.4	15751.8	16764.2	10395.5
50°	13681.2	13701.2	13745.5	13652.7	13549.9	14183.9	14452.3	16577.1	16921.3	18404.9	11313.7
52.5°	14513.7	14585.1	14739.3	14680.8	14639.4	14927.8	15330.5	17662.4	18046.5	19772.9	12230.4
55°	14753.6	14815.0	15347.7	15711.8	16048.8	15844.6	16170.2	18634.8	19050.3	20995.2	13112.9
57.5°	13795.5	13919.7	14842.2	15790.3	17188.3	17269.7	17323.9	19633.0	20005.6	21932.0	14031.1
60°	11373.7	11397.9	12911.6	14538.0	16999.8	18513.4	19008.9	20705.3	21018.1	22804.4	15130.6
62.5°	7234.0	7481.1	9141.8	11437.9	15006.4	18333.5	21046.6	22327.5	22441.7	23851.1	16707.1
65°	3445.7	3605.6	4802.2	7066.9	10869.6	16030.2	22453.2	25261.9	25313.4	25925.9	18813.3
67.5°	1907.7	1984.9	2554.6	3804.1	6354.4	11336.5	21884.8	28737.6	28786.1	28045.0	20661.1
69°	1492.2	1557.9	2006.3	2867.3	4308.1	8147.9	19804.3	29755.7	29899.9	28651.9	20726.8
70°	1266.6	1330.9	1727.8	2421.8	3464.2	6295.9	17628.1	29503.0	29655.8	28594.8	20237.0
72.5°	775.4	812.5	1150.9	1705.0	2321.9	3167.2	10871.0	24950.7	25209.1	26230.1	17392.5
75°	522.6	542.6	719.7	1176.6	1660.7	1630.7	5647.6	17586.7	18146.4	20404.0	12845.9
77.5°	374.1	392.7	482.6	761.1	1163.8	1076.7	2557.5	10929.6	11049.5	12237.6	7005.5
80°	212.8	229.9	341.3	452.7	789.7	718.3	1016.7	5220.6	5280.6	5247.7	2339.0
82.5°	111.4	125.7	187.1	298.4	506.9	469.8	422.7	1747.8	1756.4	1460.8	512.6
85°	21.4	25.7	92.8	204.2	261.3	204.2	172.8	409.8	418.4	369.8	127.1
87.5°	0.0	1.4	37.1	45.7	51.4	52.8	55.7	80.0	85.7	115.7	34.3
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: P321900
 CATALOG NUMBER: GAN-SA6D-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3437.1	3385.7	3287.2	3172.9	3084.4	2997.3	2928.7	2857.3	2831.6	2818.8	2817.4
5°	3471.4	3362.8	3154.4	2940.2	2764.5	2598.9	2480.4	2367.5	2314.7	2290.4	2280.4
7.5°	3528.5	3354.3	3018.7	2691.7	2438.9	2231.9	2067.7	1944.9	1883.5	1857.8	1847.8
10°	3595.6	3342.8	2860.2	2429.0	2106.2	1892.0	1729.3	1607.9	1540.8	1512.2	1497.9
12.5°	3674.1	3322.9	2677.4	2163.4	1822.1	1607.9	1410.8	1260.9	1183.8	1150.9	1135.2
15°	3771.2	3302.9	2486.1	1913.5	1572.2	1310.9	1095.2	993.9	978.1	972.4	973.9
17.5°	3866.9	3271.4	2277.6	1666.4	1309.4	1023.8	913.9	908.2	911.0	911.0	911.0
20°	3952.6	3200.0	2050.5	1455.1	1059.5	863.9	841.1	831.1	823.9	818.2	811.1
22.5°	4019.7	3104.4	1832.1	1245.2	865.3	791.1	755.4	724.0	698.3	681.1	672.6
25°	4065.4	2977.3	1632.2	1043.8	778.2	719.7	655.4	602.6	562.6	538.3	528.3
27.5°	4099.7	2840.2	1453.7	873.9	718.3	636.9	552.6	489.8	448.4	427.0	418.4
30°	4123.9	2684.6	1296.6	768.2	651.1	549.8	459.8	398.4	368.4	357.0	351.3
32.5°	4146.8	2511.8	1148.1	718.3	588.3	469.8	385.5	338.4	319.9	305.6	301.3
35°	4203.9	2351.8	1006.7	665.4	524.1	401.3	331.3	297.0	278.5	269.9	267.0
37.5°	4339.6	2233.3	871.1	611.2	459.8	347.0	289.9	265.6	248.5	239.9	237.0
40°	4558.0	2173.3	756.8	552.6	397.0	305.6	262.7	239.9	221.3	208.5	205.6
42.5°	4879.3	2181.9	676.9	494.1	347.0	272.7	237.0	209.9	189.9	178.5	175.6
45°	5269.2	2244.7	621.2	437.0	305.6	247.0	208.5	179.9	161.4	151.4	148.5
47.5°	5691.8	2346.1	575.5	385.5	272.7	222.8	179.9	149.9	134.2	125.7	124.2
50°	6137.3	2444.7	528.3	335.6	244.2	198.5	151.4	124.2	111.4	104.2	101.4
52.5°	6588.6	2558.9	485.5	289.9	219.9	169.9	125.7	101.4	91.4	85.7	82.8
55°	7074.1	2644.6	444.1	254.2	195.6	144.2	104.2	84.2	75.7	68.5	67.1
57.5°	7645.3	2777.4	401.3	219.9	167.1	119.9	85.7	67.1	60.0	52.8	51.4
60°	8416.4	2933.0	355.6	194.2	137.1	98.5	70.0	54.3	45.7	40.0	38.6
62.5°	9433.1	3105.8	298.4	169.9	111.4	80.0	55.7	42.8	32.8	25.7	25.7
65°	10722.5	3387.1	244.2	142.8	91.4	65.7	42.8	31.4	18.6	11.4	11.4
67.5°	11475.0	3435.7	197.1	117.1	74.3	55.7	35.7	21.4	5.7	1.4	0.0
69°	11233.7	3154.4	167.1	100.0	64.3	52.8	32.8	15.7	2.9	0.0	0.0
70°	10779.6	2884.5	147.1	88.5	58.5	50.0	31.4	11.4	2.9	0.0	0.0
72.5°	8907.6	2053.4	111.4	65.7	42.8	44.3	28.6	7.1	2.9	0.0	0.0
75°	6488.6	1248.0	80.0	45.7	27.1	32.8	20.0	2.9	1.4	0.0	0.0
77.5°	3609.9	588.3	50.0	25.7	17.1	20.0	10.0	0.0	0.0	0.0	0.0
80°	1172.4	159.9	22.8	14.3	10.0	11.4	4.3	0.0	0.0	0.0	0.0
82.5°	217.0	45.7	12.9	7.1	2.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	47.1	18.6	7.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	5.7	1.4	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)