

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: P321578

Luminaire Tested: **GAN-SA4D-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21921 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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

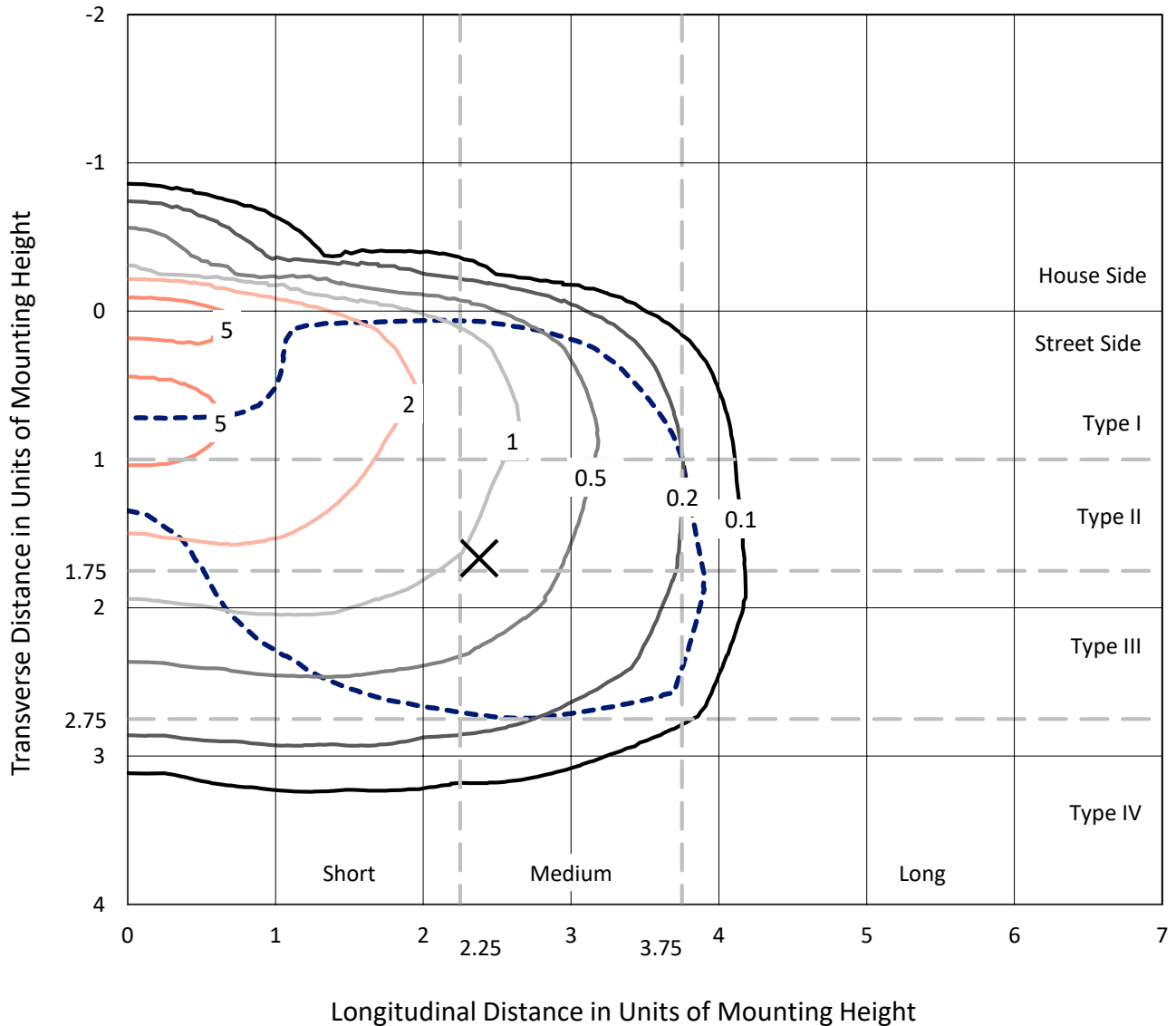




REPORT NUMBER: P321578
 CATALOG NUMBER: GAN-SA4D-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

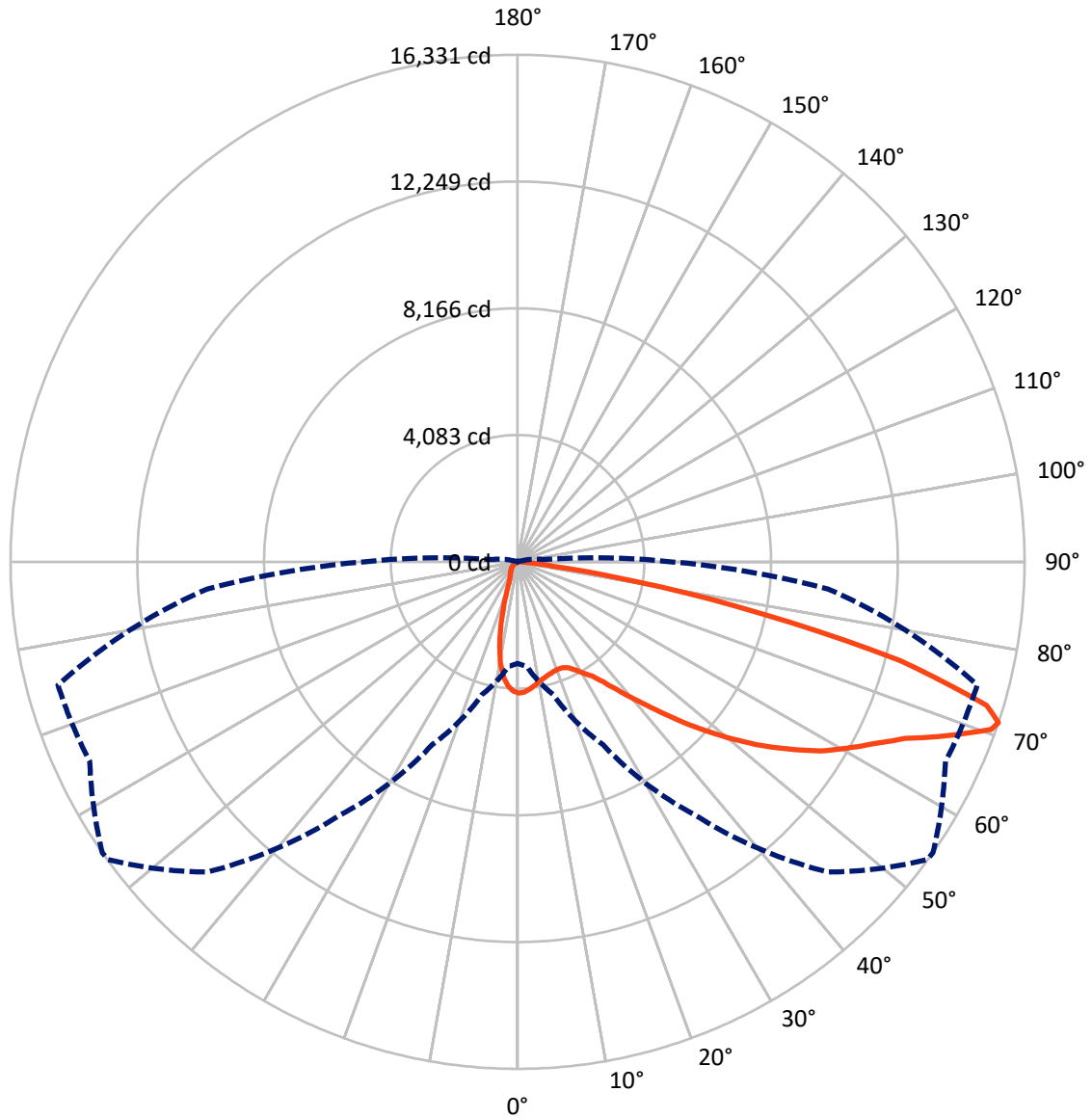
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P321578
CATALOG NUMBER: GAN-SA4D-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321578
 CATALOG NUMBER: GAN-SA4D-730-U-T3R-HSS

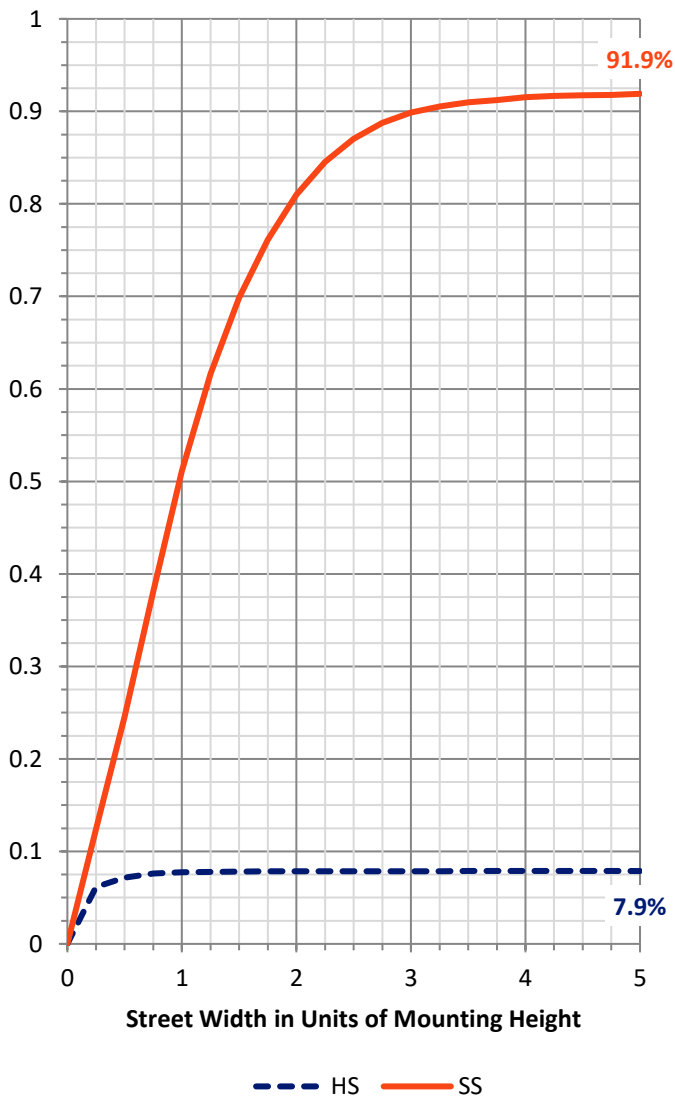
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.5	0.0	1735.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	20185.5	0.0	20185.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	21921.0	0.0	21921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	1.6
10°-20°	813.8	3.7
20°-30°	1307.7	6.0
30°-40°	2221.9	10.1
40°-50°	3448.7	15.7
50°-60°	4636.6	21.2
60°-70°	5672.1	25.9
70°-80°	3316.4	15.1
80°-90°	143.4	0.7
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°	21921.0	100.0
0°-180°	21921.0	100.0

Coefficient of Utilization

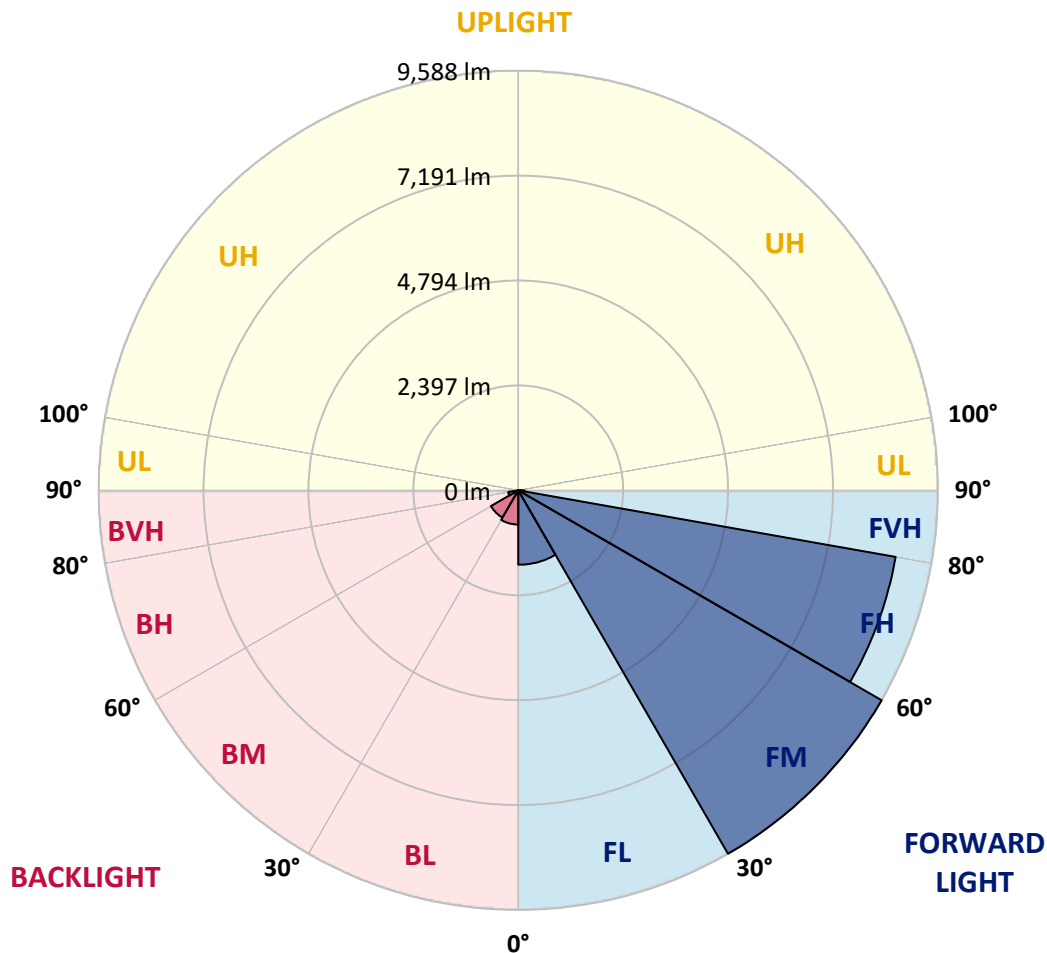


REPORT NUMBER: P321578
 CATALOG NUMBER: GAN-SA4D-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.8	7.8			
FM (30°-60°)	9587.6	43.7			
FH (60°-80°)	8756.0	39.9			G4/12000
FVH (80°-90°)	141.1	0.6			G2/225
BL (0°-30°)	781.2	3.6	B2/1000		
BM (30°-60°)	719.6	3.3	B1/1000		
BH (60°-80°)	232.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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 III Medium





REPORT NUMBER: P321578

CATALOG NUMBER: GAN-SA4D-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5
2.5°	4103.5	4108.4	4126.2	4134.0	4152.7	4184.2	4200.0	4201.0	4226.6	4236.4	4244.3
5°	3813.2	3842.7	3872.2	3903.7	3960.8	4036.6	4111.4	4118.3	4201.0	4262.0	4294.5
7.5°	3563.1	3589.7	3625.2	3675.4	3756.1	3875.2	4000.2	4014.9	4171.4	4310.2	4383.1
10°	3306.2	3327.9	3379.1	3452.9	3564.1	3723.6	3891.9	3916.5	4144.9	4375.2	4503.1
12.5°	3031.6	3044.4	3106.4	3212.7	3376.1	3578.9	3800.4	3832.8	4128.1	4450.0	4644.9
15°	2823.0	2828.9	2887.9	2998.2	3185.2	3449.0	3729.5	3768.9	4132.1	4539.6	4799.4
17.5°	2769.8	2772.8	2804.3	2880.0	3045.4	3332.8	3673.4	3721.6	4143.9	4627.2	4954.9
20°	2985.4	2964.7	2932.2	2920.4	2991.3	3262.9	3639.9	3694.1	4159.6	4704.9	5094.7
22.5°	3576.9	3515.9	3381.1	3200.9	3091.7	3267.9	3648.8	3702.9	4209.8	4800.4	5256.1
25°	4454.9	4370.3	4140.9	3786.6	3446.0	3409.6	3722.6	3777.7	4307.3	4914.6	5410.7
27.5°	5454.0	5370.3	5089.8	4583.9	4003.1	3690.1	3891.9	3943.1	4452.0	5016.0	5528.8
30°	6410.7	6387.1	6056.4	5481.5	4703.9	4144.9	4110.4	4153.7	4559.3	5077.0	5622.3
32.5°	7221.8	7184.4	6918.6	6359.5	5506.1	4691.1	4367.3	4380.1	4640.0	5155.7	5744.3
35°	7973.8	7927.5	7694.2	7165.7	6329.0	5358.5	4763.0	4744.3	4816.2	5314.2	5921.5
37.5°	8630.3	8672.6	8413.7	7910.8	7067.2	6052.4	5296.5	5240.4	5091.8	5572.1	6178.4
40°	9179.5	9179.5	9044.7	8625.4	7864.5	6770.0	5899.9	5826.0	5506.1	5969.7	6504.2
42.5°	9377.4	9419.7	9469.9	9232.7	8578.1	7516.1	6572.1	6495.4	6089.8	6533.7	6915.7
45°	9389.2	9456.1	9713.0	9712.0	9222.8	8257.2	7330.0	7293.6	6837.9	7258.2	7425.5
47.5°	9222.8	9306.5	9729.7	9969.9	9733.7	8947.2	8158.8	8113.5	7716.9	8146.0	7959.0
50°	8965.9	9058.5	9550.6	10071.3	10081.1	9547.7	9031.9	8964.0	8684.4	9160.8	8510.2
52.5°	8506.3	8685.4	9390.2	10094.9	10309.5	10066.4	9862.6	9833.1	9767.2	10138.2	8949.2
55°	7523.0	7721.8	8987.6	10102.8	10521.1	10526.0	10641.2	10649.1	10782.0	11051.7	9276.0
57.5°	7058.4	7170.6	8284.8	10140.2	10835.1	11047.7	11434.5	11495.6	11701.3	11918.8	9649.0
60°	6766.0	6898.9	7938.3	10089.0	11328.2	11731.8	12169.8	12190.5	12411.0	12813.5	10154.0
62.5°	6532.8	6663.7	7719.8	9892.2	11882.4	12554.7	12888.3	12890.3	13055.7	13879.5	10727.8
65°	5956.9	6067.2	7277.9	9670.7	12248.6	13368.7	13723.0	13710.2	13845.1	15003.6	11394.2
67.5°	5124.2	5208.9	6375.3	8831.1	12110.8	14108.9	14982.9	14940.6	14777.2	15975.1	11656.0
70°	3961.8	3992.3	5024.8	7359.6	10819.4	14393.3	16200.5	16178.8	15349.1	15800.9	10696.3
71°	3274.7	3375.1	4428.3	6495.4	9954.2	14130.5	16318.6	16331.4	15205.4	15326.4	10035.9
72.5°	1901.7	1987.3	3209.8	4988.4	8451.1	13034.0	15706.4	15798.9	14534.1	13940.6	8572.2
75°	407.5	436.0	1190.0	2414.5	4648.8	9135.2	12397.2	12726.9	11846.0	9483.7	5166.6
77.5°	283.5	306.1	509.9	1095.5	1536.5	4514.0	7701.1	8073.2	7077.1	3564.1	1653.6
80°	224.4	250.0	397.7	541.4	415.4	1455.8	3607.4	3834.8	2360.3	795.3	278.6
82.5°	125.0	148.6	310.1	292.3	159.5	276.6	1009.9	1141.8	472.5	160.4	65.9
85°	36.4	44.3	199.8	212.6	67.9	53.2	172.3	213.6	89.6	42.3	29.5
87.5°	0.0	0.0	96.5	81.7	19.7	7.9	15.7	17.7	17.7	17.7	19.7
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: P321578

CATALOG NUMBER: GAN-SA4D-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5	4227.5
2.5°	4244.3	4251.2	4226.6	4194.1	4159.6	4117.3	4073.0	4038.6	4037.6	4020.8	4004.1
5°	4296.4	4292.5	4224.6	4121.2	3999.2	3872.2	3751.1	3614.3	3569.1	3512.9	3494.2
7.5°	4392.9	4365.3	4221.6	3995.3	3727.5	3461.8	3187.1	2910.6	2792.4	2686.1	2667.4
10°	4514.0	4461.8	4202.9	3806.3	3315.1	2824.9	2410.5	2034.5	1869.2	1742.2	1736.3
12.5°	4640.0	4560.2	4150.8	3520.8	2774.7	2085.7	1608.3	1238.2	1100.4	1011.9	1019.7
15°	4771.9	4652.8	4038.6	3136.0	2159.5	1415.4	988.2	770.7	715.6	692.9	698.8
17.5°	4906.7	4716.7	3882.1	2672.4	1552.2	913.4	684.1	623.1	623.1	628.0	629.9
20°	5023.8	4751.2	3651.7	2152.7	1052.2	665.4	598.5	589.6	594.5	602.4	603.4
22.5°	5140.0	4753.2	3351.5	1626.1	736.3	582.7	569.9	566.0	568.9	577.8	578.8
25°	5234.5	4729.5	2975.5	1156.5	587.6	549.2	543.3	541.4	543.3	554.2	554.2
27.5°	5272.9	4643.9	2516.8	813.0	526.6	511.8	509.9	511.8	514.8	522.7	523.6
30°	5276.8	4494.3	2016.8	588.6	477.4	461.6	465.6	472.5	469.5	467.5	469.5
32.5°	5286.6	4321.1	1529.6	484.3	436.0	411.4	406.5	406.5	394.7	387.8	383.9
35°	5319.1	4117.3	1109.3	435.1	393.7	365.2	346.5	324.8	302.2	290.4	287.4
37.5°	5370.3	3903.7	794.3	402.6	356.3	323.8	288.4	250.0	217.5	208.7	208.7
40°	5463.8	3683.2	587.6	377.0	326.8	286.4	233.3	183.1	153.5	148.6	148.6
42.5°	5611.5	3450.9	468.5	354.3	301.2	248.0	178.2	132.9	111.2	108.3	107.3
45°	5765.0	3195.0	409.5	332.7	273.6	203.7	131.9	98.4	85.6	82.7	82.7
47.5°	5918.6	2922.4	380.9	312.0	247.1	158.5	98.4	77.8	71.9	71.9	72.8
50°	6048.5	2637.9	360.3	289.4	212.6	120.1	77.8	65.9	64.0	67.9	68.9
52.5°	6081.0	2358.4	334.7	260.8	170.3	91.5	64.0	58.1	58.1	58.1	58.1
55°	6061.3	2141.8	301.2	225.4	126.0	72.8	55.1	51.2	50.2	50.2	50.2
57.5°	6128.2	2013.9	241.2	175.2	90.6	59.1	48.2	45.3	43.3	42.3	42.3
60°	6263.1	1930.2	172.3	126.0	67.9	49.2	41.3	38.4	35.4	33.5	33.5
62.5°	6442.2	1857.4	128.0	93.5	52.2	39.4	34.5	31.5	27.6	25.6	25.6
65°	6580.0	1727.4	97.4	69.9	39.4	31.5	26.6	25.6	19.7	17.7	16.7
67.5°	6369.4	1442.0	78.7	51.2	29.5	24.6	20.7	19.7	11.8	9.8	9.8
70°	5462.8	1004.0	63.0	37.4	21.7	19.7	16.7	12.8	8.9	7.9	7.9
71°	4954.0	838.6	57.1	31.5	18.7	18.7	15.7	10.8	7.9	6.9	6.9
72.5°	4115.3	595.5	48.2	24.6	16.7	19.7	16.7	9.8	7.9	6.9	5.9
75°	2388.9	249.0	33.5	16.7	12.8	23.6	21.7	8.9	5.9	4.9	4.9
77.5°	718.5	91.5	18.7	10.8	9.8	20.7	24.6	7.9	3.0	1.0	1.0
80°	130.9	39.4	11.8	6.9	6.9	12.8	18.7	3.9	0.0	0.0	0.0
82.5°	46.3	19.7	6.9	3.9	3.0	5.9	8.9	0.0	0.0	0.0	0.0
85°	26.6	13.8	3.9	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
87.5°	17.7	3.9	0.0	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)