

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: P321617

Luminaire Tested: **GAN-SA3D-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321617
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-SA3D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 18219 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

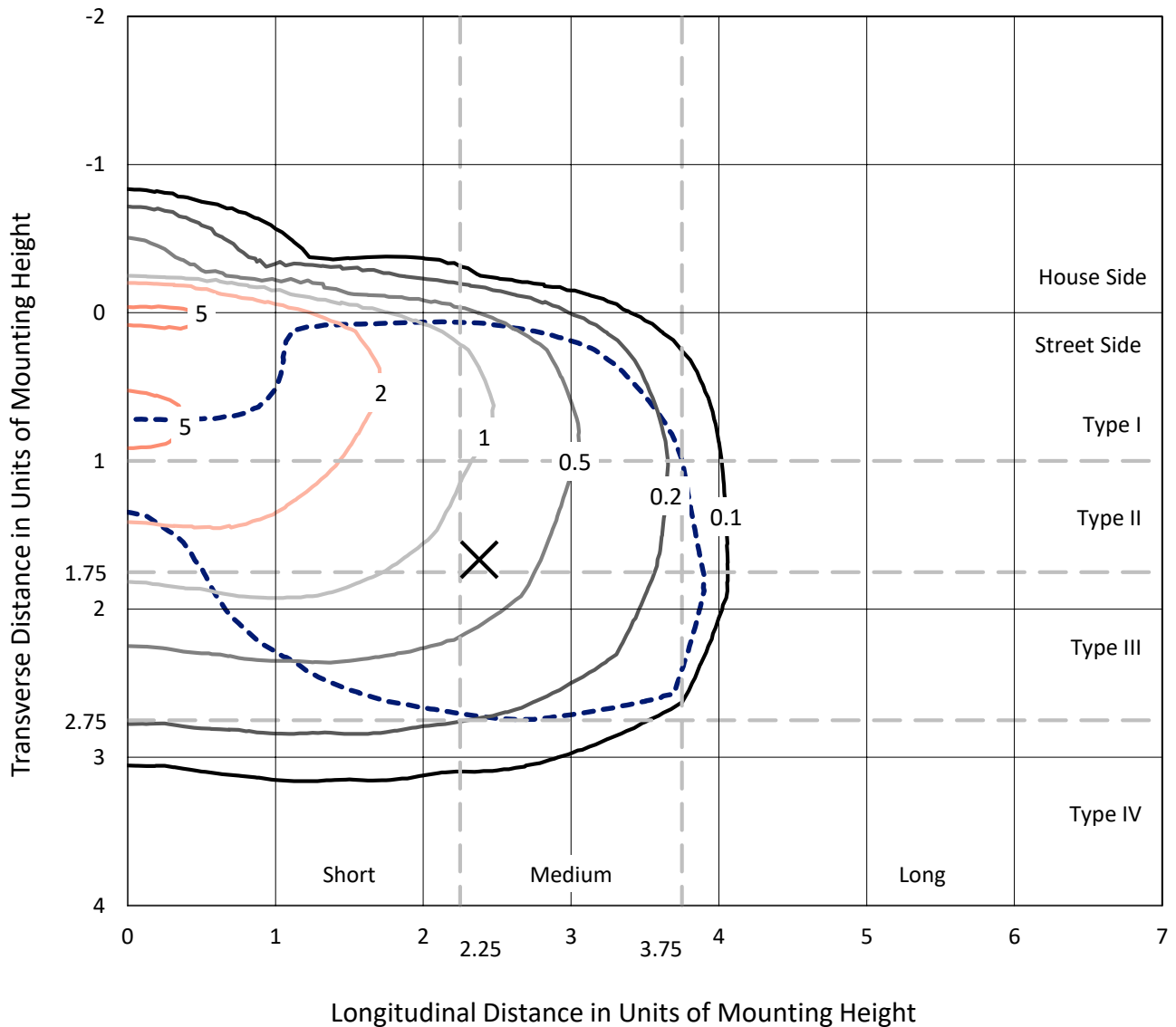
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321617
 CATALOG NUMBER: GAN-SA3D-740-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

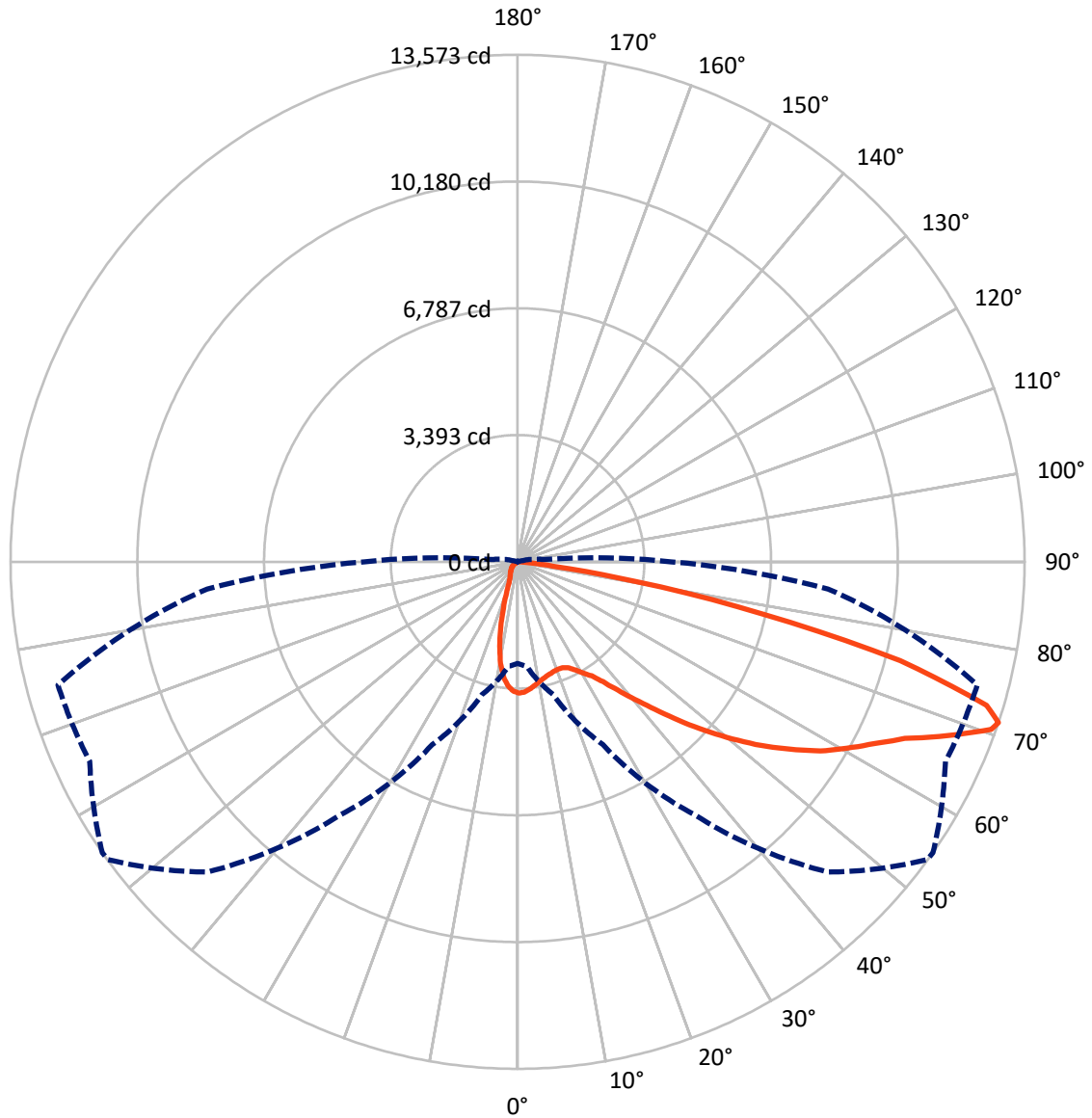
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P321617
CATALOG NUMBER: GAN-SA3D-740-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P321617
 CATALOG NUMBER: GAN-SA3D-740-U-T3R-HSS

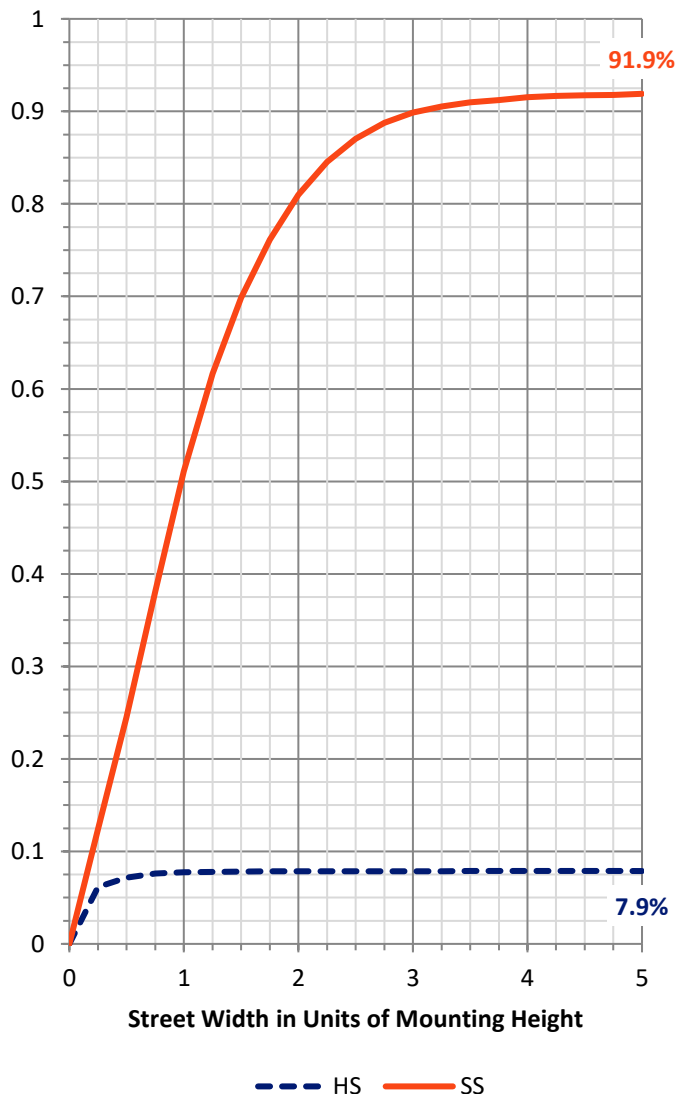
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1442.4	0.0	1442.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16776.5	0.0	16776.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	18219.0	0.0	18219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.6
10°-20°	676.3	3.7
20°-30°	1086.9	6.0
30°-40°	1846.7	10.1
40°-50°	2866.3	15.7
50°-60°	3853.6	21.2
60°-70°	4714.2	25.9
70°-80°	2756.3	15.1
80°-90°	119.1	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°	18219.0	100.0
0°-180°	18219.0	100.0

Coefficient of Utilization

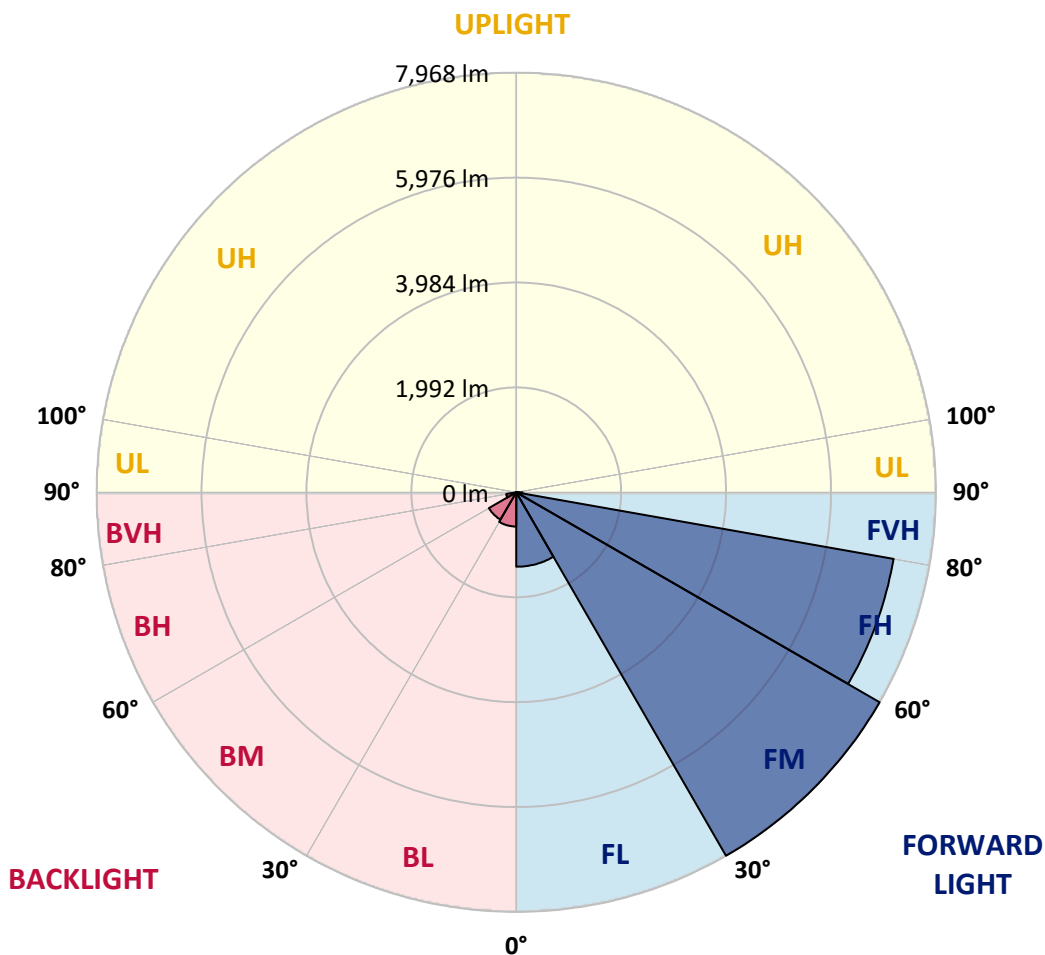


REPORT NUMBER: P321617
 CATALOG NUMBER: GAN-SA3D-740-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.5	7.8			
FM (30°-60°)	7968.5	43.7			
FH (60°-80°)	7277.3	39.9			G3/7500
FVH (80°-90°)	117.3	0.6			G2/225
BL (0°-30°)	649.2	3.6	B2/1000		
BM (30°-60°)	598.1	3.3	B1/1000		
BH (60°-80°)	193.3	1.1	B1/500		G1/500
BVH (80°-90°)	1.9	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 III Medium





REPORT NUMBER: P321617

CATALOG NUMBER: GAN-SA3D-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6
2.5°	3410.5	3414.6	3429.3	3435.9	3451.4	3477.6	3490.7	3491.5	3512.8	3521.0	3527.5
5°	3169.2	3193.7	3218.3	3244.5	3291.9	3354.9	3417.1	3422.8	3491.5	3542.2	3569.2
7.5°	2961.4	2983.5	3012.9	3054.7	3121.7	3220.7	3324.6	3336.9	3467.0	3582.3	3642.9
10°	2747.9	2765.9	2808.4	2869.8	2962.2	3094.7	3234.6	3255.1	3444.9	3636.3	3742.7
12.5°	2519.6	2530.3	2581.8	2670.2	2806.0	2974.5	3158.6	3185.6	3431.0	3698.5	3860.5
15°	2346.2	2351.1	2400.2	2491.8	2647.3	2866.5	3099.7	3132.4	3434.2	3772.9	3988.9
17.5°	2302.0	2304.5	2330.7	2393.7	2531.1	2770.0	3053.0	3093.1	3444.1	3845.7	4118.2
20°	2481.2	2464.0	2437.0	2427.2	2486.1	2711.9	3025.2	3070.2	3457.2	3910.4	4234.3
22.5°	2972.9	2922.1	2810.1	2660.4	2569.5	2716.0	3032.6	3077.6	3498.9	3989.7	4368.5
25°	3702.6	3632.2	3441.6	3147.1	2864.1	2833.8	3093.9	3139.7	3579.9	4084.6	4496.9
27.5°	4532.9	4463.4	4230.2	3809.7	3327.1	3066.9	3234.6	3277.2	3700.1	4168.9	4595.1
30°	5328.1	5308.4	5033.6	4555.8	3909.5	3444.9	3416.2	3452.2	3789.3	4219.6	4672.8
32.5°	6002.2	5971.1	5750.2	5285.5	4576.3	3898.9	3629.8	3640.4	3856.4	4285.0	4774.2
35°	6627.2	6588.7	6394.8	5955.5	5260.2	4453.6	3958.6	3943.1	4002.8	4416.7	4921.5
37.5°	7172.8	7208.0	6992.8	6574.8	5873.7	5030.3	4402.0	4355.4	4231.9	4631.1	5135.0
40°	7629.3	7629.3	7517.2	7168.7	6536.4	5626.7	4903.5	4842.1	4576.3	4961.6	5405.8
42.5°	7793.7	7828.9	7870.6	7673.5	7129.5	6246.8	5462.2	5398.4	5061.4	5430.3	5747.7
45°	7803.5	7859.2	8072.7	8071.9	7665.3	6862.8	6092.1	6061.9	5683.1	6032.4	6171.5
47.5°	7665.3	7734.8	8086.6	8286.2	8089.9	7436.2	6781.0	6743.3	6413.6	6770.3	6614.9
50°	7451.8	7528.7	7937.7	8370.5	8378.6	7935.3	7506.6	7450.1	7217.8	7613.8	7073.0
52.5°	7069.7	7218.6	7804.4	8390.1	8568.4	8366.4	8197.0	8172.5	8117.7	8426.1	7437.9
55°	6252.5	6417.7	7469.8	8396.6	8744.3	8748.4	8844.1	8850.7	8961.1	9185.3	7709.5
57.5°	5866.4	5959.6	6885.7	8427.7	9005.3	9182.0	9503.5	9554.2	9725.2	9906.0	8019.5
60°	5623.4	5733.8	6597.7	8385.2	9415.1	9750.5	10114.6	10131.8	10315.0	10649.6	8439.2
62.5°	5429.5	5538.3	6416.1	8221.6	9875.7	10434.4	10711.8	10713.4	10850.8	11535.6	8916.1
65°	4950.9	5042.6	6048.8	8037.5	10180.0	11111.0	11405.5	11394.9	11506.9	12469.8	9469.9
67.5°	4258.9	4329.2	5298.6	7339.7	10065.5	11726.2	12452.6	12417.4	12281.6	13277.2	9687.6
70°	3292.7	3318.1	4176.2	6116.7	8992.2	11962.6	13464.6	13446.6	12756.9	13132.4	8889.9
71°	2721.7	2805.2	3680.5	5398.4	8273.1	11744.2	13562.7	13573.4	12637.5	12738.1	8341.0
72.5°	1580.5	1651.7	2667.7	4146.0	7023.9	10832.8	13053.9	13130.8	12079.6	11586.3	7124.5
75°	338.7	362.4	989.0	2006.7	3863.7	7592.5	10303.6	10577.6	9845.4	7882.1	4294.0
77.5°	235.6	254.4	423.8	910.5	1277.0	3751.7	6400.6	6709.8	5881.9	2962.2	1374.4
80°	186.5	207.8	330.5	449.9	345.2	1209.9	2998.2	3187.2	1961.7	661.0	231.5
82.5°	103.9	123.5	257.7	243.0	132.5	229.9	839.3	949.0	392.7	133.3	54.8
85°	30.3	36.8	166.1	176.7	56.4	44.2	143.2	177.5	74.4	35.2	24.5
87.5°	0.0	0.0	80.2	67.9	16.4	6.5	13.1	14.7	14.7	14.7	16.4
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: P321617
 CATALOG NUMBER: GAN-SA3D-740-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6	3513.6
2.5°	3527.5	3533.2	3512.8	3485.8	3457.2	3422.0	3385.2	3356.5	3355.7	3341.8	3327.9
5°	3570.9	3567.6	3511.1	3425.2	3323.8	3218.3	3117.7	3003.9	2966.3	2919.7	2904.1
7.5°	3651.0	3628.1	3508.7	3320.5	3098.0	2877.1	2648.9	2419.0	2320.9	2232.5	2217.0
10°	3751.7	3708.3	3493.1	3163.5	2755.3	2347.9	2003.4	1690.9	1553.5	1448.0	1443.1
12.5°	3856.4	3790.1	3449.8	2926.2	2306.1	1733.5	1336.7	1029.1	914.6	841.0	847.5
15°	3966.0	3867.0	3356.5	2606.4	1794.8	1176.4	821.3	640.5	594.7	575.9	580.8
17.5°	4078.1	3920.2	3226.5	2221.1	1290.1	759.2	568.6	517.8	517.8	521.9	523.6
20°	4175.4	3948.8	3035.0	1789.1	874.5	553.0	497.4	490.0	494.1	500.7	501.5
22.5°	4271.9	3950.4	2785.5	1351.4	611.9	484.3	473.7	470.4	472.8	480.2	481.0
25°	4350.5	3930.8	2473.0	961.2	488.4	456.5	451.6	449.9	451.6	460.6	460.6
27.5°	4382.4	3859.6	2091.8	675.7	437.7	425.4	423.8	425.4	427.8	434.4	435.2
30°	4385.7	3735.3	1676.2	489.2	396.8	383.7	386.9	392.7	390.2	388.6	390.2
32.5°	4393.8	3591.3	1271.3	402.5	362.4	342.0	337.9	337.9	328.0	322.3	319.0
35°	4420.8	3422.0	922.0	361.6	327.2	303.5	288.0	270.0	251.1	241.3	238.9
37.5°	4463.4	3244.5	660.2	334.6	296.1	269.1	239.7	207.8	180.8	173.4	173.4
40°	4541.1	3061.2	488.4	313.3	271.6	238.1	193.9	152.2	127.6	123.5	123.5
42.5°	4663.8	2868.1	389.4	294.5	250.3	206.2	148.1	110.4	92.4	90.0	89.2
45°	4791.4	2655.4	340.3	276.5	227.4	169.3	109.6	81.8	71.2	68.7	68.7
47.5°	4919.0	2428.8	316.6	259.3	205.3	131.7	81.8	64.6	59.7	59.7	60.5
50°	5027.0	2192.4	299.4	240.5	176.7	99.8	64.6	54.8	53.2	56.4	57.3
52.5°	5054.0	1960.1	278.1	216.8	141.5	76.1	53.2	48.3	48.3	48.3	48.3
55°	5037.7	1780.1	250.3	187.3	104.7	60.5	45.8	42.5	41.7	41.7	41.7
57.5°	5093.3	1673.8	200.4	145.6	75.3	49.1	40.1	37.6	36.0	35.2	35.2
60°	5205.4	1604.2	143.2	104.7	56.4	40.9	34.4	31.9	29.5	27.8	27.8
62.5°	5354.3	1543.7	106.3	77.7	43.4	32.7	28.6	26.2	22.9	21.3	21.3
65°	5468.8	1435.7	81.0	58.1	32.7	26.2	22.1	21.3	16.4	14.7	13.9
67.5°	5293.7	1198.5	65.4	42.5	24.5	20.5	17.2	16.4	9.8	8.2	8.2
70°	4540.3	834.4	52.4	31.1	18.0	16.4	13.9	10.6	7.4	6.5	6.5
71°	4117.3	697.0	47.4	26.2	15.5	15.5	13.1	9.0	6.5	5.7	5.7
72.5°	3420.3	494.9	40.1	20.5	13.9	16.4	13.9	8.2	6.5	5.7	4.9
75°	1985.4	207.0	27.8	13.9	10.6	19.6	18.0	7.4	4.9	4.1	4.1
77.5°	597.2	76.1	15.5	9.0	8.2	17.2	20.5	6.5	2.5	0.8	0.8
80°	108.8	32.7	9.8	5.7	5.7	10.6	15.5	3.3	0.0	0.0	0.0
82.5°	38.4	16.4	5.7	3.3	2.5	4.9	7.4	0.0	0.0	0.0	0.0
85°	22.1	11.5	3.3	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.7	3.3	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)