

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: P321300

Luminaire Tested: **GAN-SA6D-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37460 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

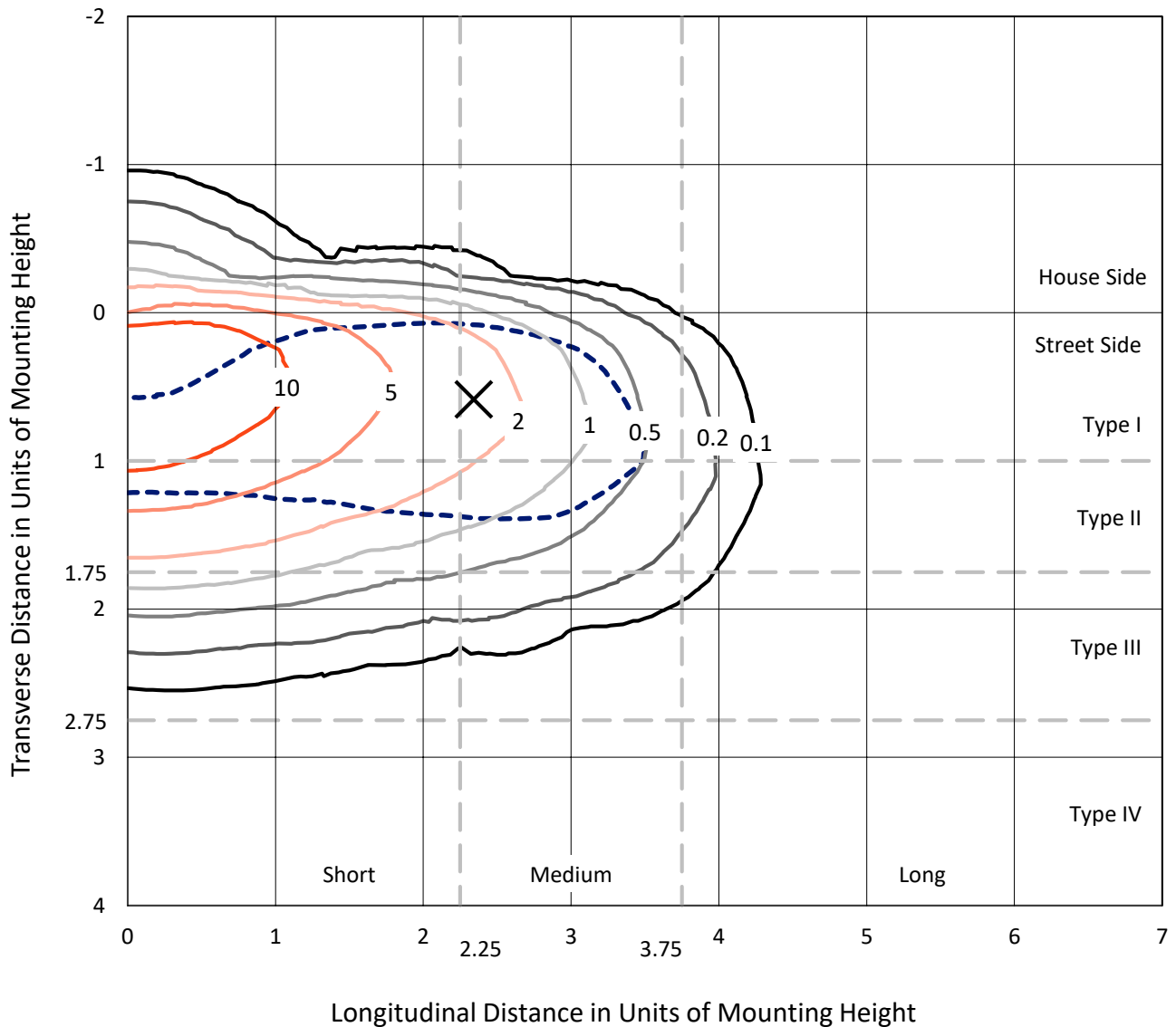
Input Watts (W): 382
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GAN-SA6D-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

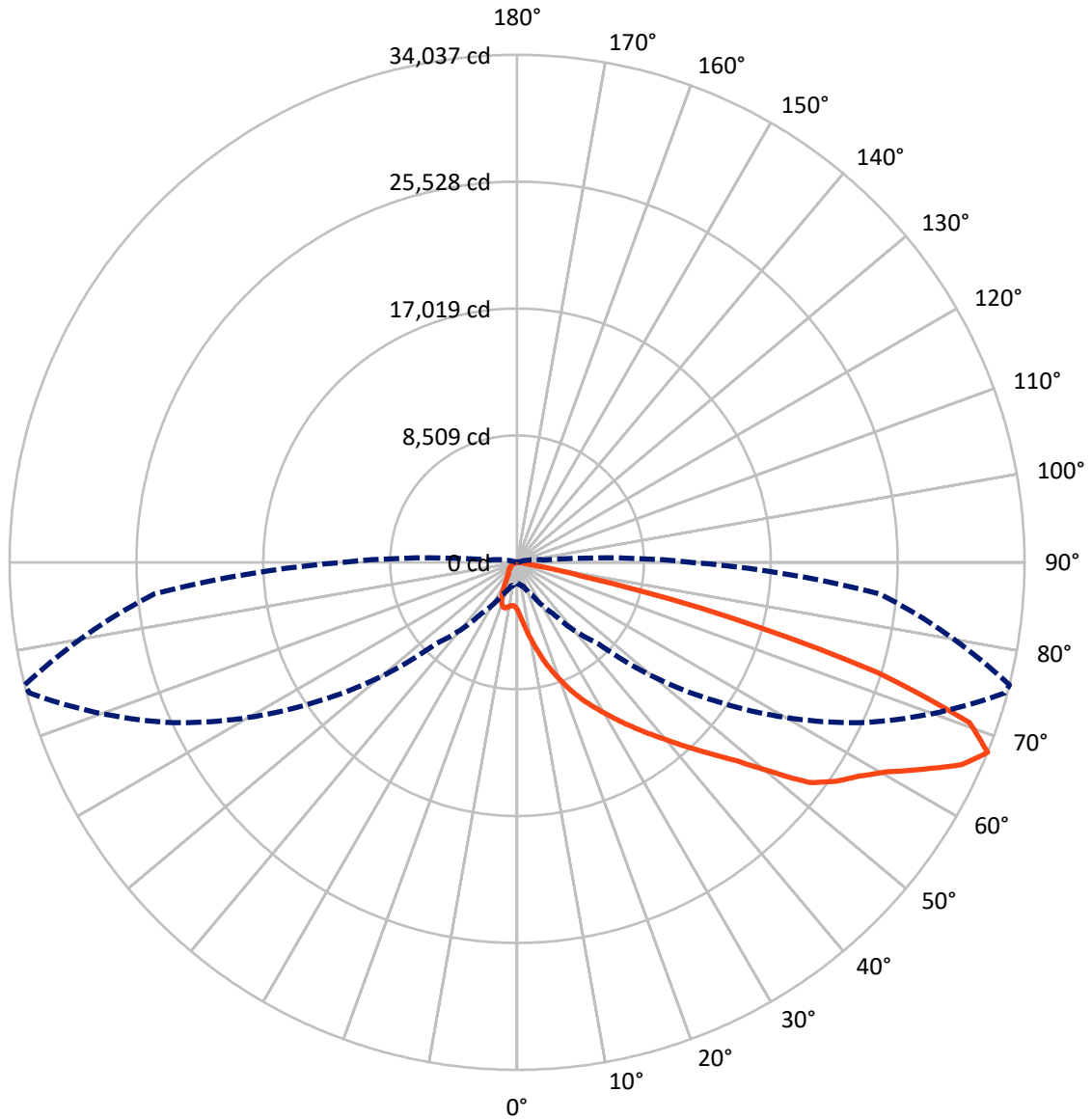
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P321300
CATALOG NUMBER: GAN-SA6D-740-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GAN-SA6D-740-U-T2R-HSS

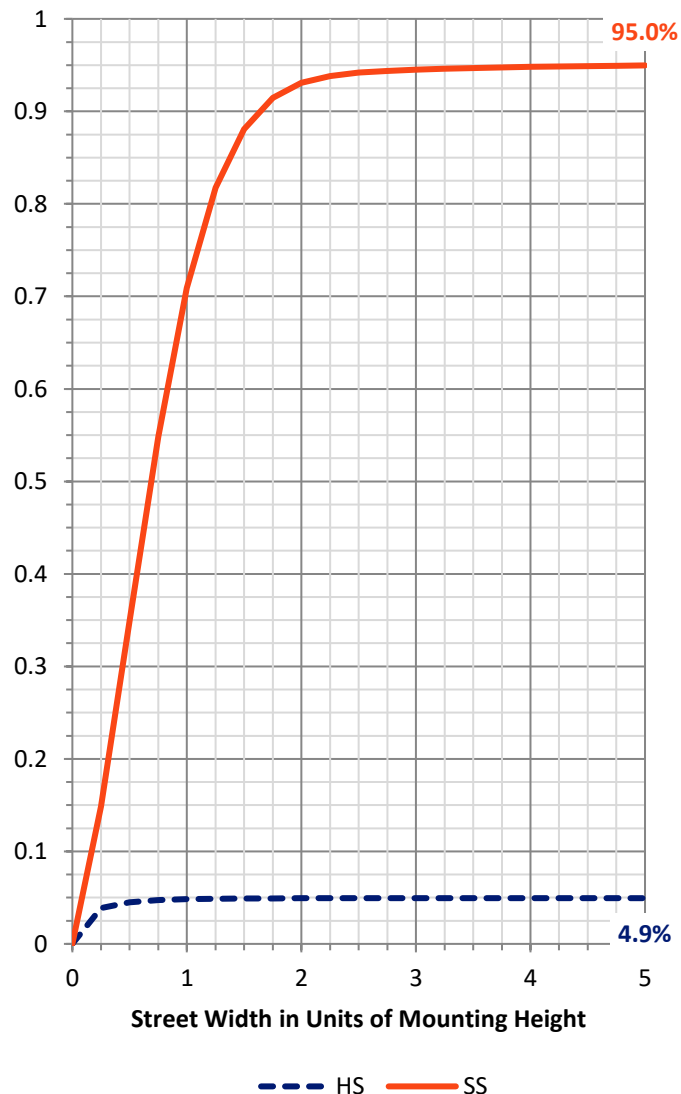
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.2	0.0	1860.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35599.8	0.0	35599.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	37460.0	0.0	37460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.1	1.1
10°-20°	1566.4	4.2
20°-30°	3187.1	8.5
30°-40°	5531.8	14.8
40°-50°	7815.7	20.9
50°-60°	8863.4	23.7
60°-70°	7351.3	19.6
70°-80°	2662.9	7.1
80°-90°	86.4	0.2
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°	37460.0	100.0
0°-180°	37460.0	100.0

Coefficient of Utilization

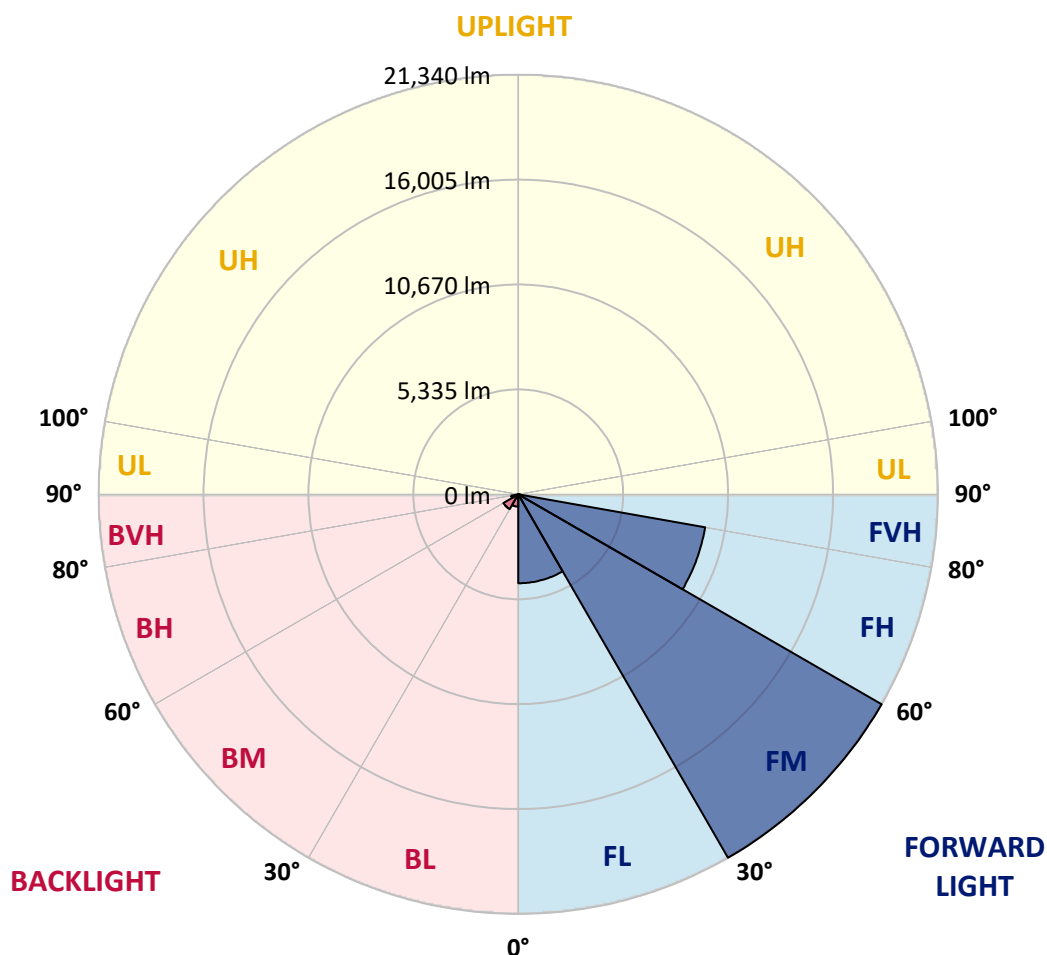


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4521.3	12.1			
FM (30°-60°)	21340.2	57.0			
FH (60°-80°)	9654.7	25.8			G4/12000
FVH (80°-90°)	83.6	0.2			G1/100
BL (0°-30°)	627.3	1.7	B2/1000		
BM (30°-60°)	870.6	2.3	B1/1000		
BH (60°-80°)	359.5	1.0	B1/500		G1/500
BVH (80°-90°)	2.7	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: P321300

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7
2.5°	4743.6	4636.9	4661.5	4592.6	4467.8	4211.8	3993.5	3786.6	3545.4	3537.2	3338.5
5°	6396.4	6306.1	6294.7	6155.1	5928.6	5493.7	5070.2	4587.6	4049.3	4009.9	3588.0
7.5°	7896.6	7824.4	7798.2	7632.4	7210.5	6787.1	6235.6	5526.5	4684.5	4612.3	3924.5
10°	9048.9	9014.4	9021.0	8902.8	8541.7	8147.8	7423.9	6519.5	5405.0	5293.4	4328.3
12.5°	9922.1	9930.3	9989.4	9917.2	9715.3	9423.1	8650.0	7578.2	6202.7	6050.1	4789.5
15°	10563.9	10604.9	10713.2	10803.5	10788.7	10536.0	9826.9	8653.3	7049.7	6880.6	5303.3
17.5°	10979.1	11025.1	11182.7	11382.9	11566.7	11507.6	10962.7	9690.7	7906.5	7711.2	5853.1
20°	11343.5	11397.7	11566.7	11831.0	12174.0	12247.9	11890.1	10696.8	8761.6	8523.6	6421.0
22.5°	12133.0	12131.4	12234.8	12389.1	12715.7	12906.1	12679.6	11630.8	9606.9	9359.1	7000.4
25°	13561.0	13506.8	13470.7	13349.3	13421.5	13539.7	13413.3	12504.0	10457.2	10206.0	7588.1
27.5°	15258.2	15291.0	14998.8	14672.2	14419.4	14298.0	14091.2	13313.2	11274.6	10998.8	8162.5
30°	17048.9	17058.8	16714.1	16297.2	15740.7	15279.5	14921.7	14086.2	12115.0	11814.6	8720.6
32.5°	18664.0	18600.0	18258.6	17690.7	16988.2	16469.5	15726.0	14949.6	13004.6	12714.1	9341.0
35°	19944.3	19868.8	19453.5	18936.5	18207.7	17685.8	16791.2	15811.3	13940.2	13656.2	9963.1
37.5°	20879.9	20791.2	20364.5	19832.7	19204.0	18900.4	18027.2	16748.5	14961.1	14655.8	10618.0
40°	21204.9	21127.7	20860.2	20471.2	19965.6	19896.7	19338.6	17826.9	16072.3	15747.3	11359.9
42.5°	21011.2	20935.7	20840.5	20709.2	20499.1	20564.7	20576.2	19056.3	17306.6	16986.5	12179.0
45°	20243.0	20175.7	20274.2	20466.2	20727.2	21052.2	21705.5	20377.6	18685.4	18344.0	13126.0
47.5°	19112.1	19062.9	19335.3	19814.6	20577.9	21474.0	22737.9	21766.2	20233.2	19916.4	14307.8
50°	17503.6	17495.4	18040.3	18915.2	20088.7	21677.6	23804.8	23345.2	22383.4	22050.2	15950.8
52.5°	14998.8	15015.3	16087.1	17487.2	19230.3	21539.7	24490.9	25373.9	24884.8	24538.5	17373.9
55°	12613.9	12712.4	13472.4	15491.3	17913.9	21027.6	24727.2	26321.0	26265.2	25936.9	18165.0
57.5°	10278.3	10457.2	11189.2	13075.2	15991.9	19847.4	24597.6	26731.4	27292.7	27041.6	19209.0
60°	7747.3	7829.3	8673.0	10435.8	13524.9	17694.0	23657.1	26954.6	28697.7	28523.7	20723.9
62.5°	4929.0	5134.2	5882.7	7583.1	10531.0	14703.4	22071.5	26951.3	30455.6	30550.8	22678.8
65°	2596.6	2836.3	3233.5	4699.2	7236.8	11363.2	19686.6	26698.5	32612.4	32745.3	24206.9
67.5°	1400.1	1469.0	1679.1	2439.1	4197.0	7698.0	16182.3	25451.1	33861.5	34037.1	24420.3
70°	1024.2	1062.0	1140.8	1349.2	2112.4	4471.1	11808.0	22623.0	32251.3	32185.6	21697.3
72.5°	786.2	845.3	904.4	988.1	1214.6	2386.6	7351.7	17715.3	25733.4	25300.1	16218.4
75°	620.4	630.3	714.0	789.5	911.0	1359.1	3264.7	10317.7	15706.3	14680.4	8410.4
77.5°	495.7	502.3	551.5	617.2	732.1	892.9	1011.1	4059.1	5014.4	4474.4	1825.2
80°	293.8	310.2	410.3	476.0	607.3	563.0	369.3	881.4	782.9	709.1	306.9
82.5°	164.1	177.3	231.4	375.9	423.5	269.2	183.8	238.0	183.8	178.9	87.0
85°	0.0	8.2	149.4	233.1	172.3	59.1	77.1	78.8	54.2	50.9	34.5
87.5°	0.0	0.0	46.0	44.3	6.6	9.8	18.1	26.3	21.3	21.3	18.1
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°	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7	3177.7
2.5°	3240.1	3151.4	2984.0	2819.9	2682.0	2568.7	2467.0	2425.9	2393.1	2388.2	2361.9
5°	3384.5	3205.6	2885.5	2622.9	2447.3	2322.5	2215.8	2150.2	2099.3	2079.6	2061.6
7.5°	3602.8	3332.0	2872.4	2570.4	2360.3	2150.2	1953.2	1739.9	1606.9	1556.0	1526.5
10°	3868.7	3499.4	2921.6	2555.6	2187.9	1744.8	1418.1	1147.3	1037.3	1001.2	991.4
12.5°	4178.9	3707.9	3007.0	2463.7	1820.3	1239.2	978.3	886.3	861.7	850.2	850.2
15°	4535.1	3936.0	3067.7	2197.8	1345.9	937.2	846.9	804.3	778.0	763.2	764.9
17.5°	4899.5	4159.2	3038.2	1812.1	993.0	833.8	766.5	720.6	684.5	669.7	666.4
20°	5267.2	4366.0	2874.0	1349.2	840.4	756.7	681.2	630.3	594.2	579.4	576.1
22.5°	5648.0	4541.7	2585.2	989.7	755.0	671.3	597.5	546.6	512.1	499.0	492.4
25°	6018.9	4684.5	2181.4	801.0	674.6	590.9	520.3	472.7	441.5	428.4	426.8
27.5°	6365.2	4774.7	1713.6	707.4	604.0	518.7	454.7	412.0	385.7	375.9	374.2
30°	6677.1	4783.0	1267.1	638.5	541.7	456.3	397.2	359.5	336.5	326.6	323.3
32.5°	6992.2	4714.0	922.5	576.1	484.2	402.1	344.7	315.1	298.7	290.5	290.5
35°	7289.3	4554.8	718.9	522.0	428.4	349.6	303.7	282.3	272.5	264.3	264.3
37.5°	7579.8	4326.7	610.6	474.4	375.9	305.3	267.5	254.4	246.2	238.0	238.0
40°	7875.3	4039.4	554.8	430.0	333.2	270.8	238.0	226.5	218.3	211.7	210.1
42.5°	8238.0	3707.9	518.7	389.0	295.4	239.6	210.1	197.0	190.4	183.8	180.6
45°	8658.2	3422.3	489.1	348.0	264.3	213.4	182.2	169.1	159.2	151.0	149.4
47.5°	9263.9	3215.4	449.7	303.7	234.7	185.5	157.6	142.8	128.0	119.8	118.2
50°	10037.0	3044.7	398.9	264.3	205.2	157.6	131.3	113.3	100.1	91.9	91.9
52.5°	10421.1	2821.5	352.9	229.8	172.3	133.0	106.7	85.4	78.8	70.6	70.6
55°	10575.3	2650.8	306.9	195.3	142.8	110.0	83.7	65.7	60.7	55.8	54.2
57.5°	11008.7	2601.6	267.5	165.8	118.2	87.0	64.0	49.2	46.0	39.4	39.4
60°	11706.3	2626.2	231.4	141.2	95.2	67.3	47.6	37.8	34.5	27.9	27.9
62.5°	12459.6	2595.0	195.3	121.5	73.9	49.2	32.8	27.9	27.9	16.4	14.8
65°	12604.1	2311.0	167.4	100.1	57.4	36.1	21.3	18.1	24.6	3.3	0.0
67.5°	11698.0	1792.4	144.4	77.1	42.7	27.9	16.4	8.2	21.3	0.0	0.0
70°	9354.2	1139.1	116.5	55.8	32.8	23.0	13.1	3.3	16.4	0.0	0.0
72.5°	6614.7	661.5	91.9	39.4	27.9	18.1	9.8	0.0	9.8	0.0	0.0
75°	3345.1	352.9	57.4	29.5	21.3	13.1	6.6	0.0	1.6	0.0	0.0
77.5°	723.8	164.1	36.1	21.3	14.8	8.2	3.3	0.0	0.0	0.0	0.0
80°	157.6	72.2	23.0	13.1	8.2	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	57.4	37.8	11.5	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.2	19.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	6.6	1.6	1.6	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)