

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: P323883

Luminaire Tested: **GAN-SA9B-750-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323883
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-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 41463 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

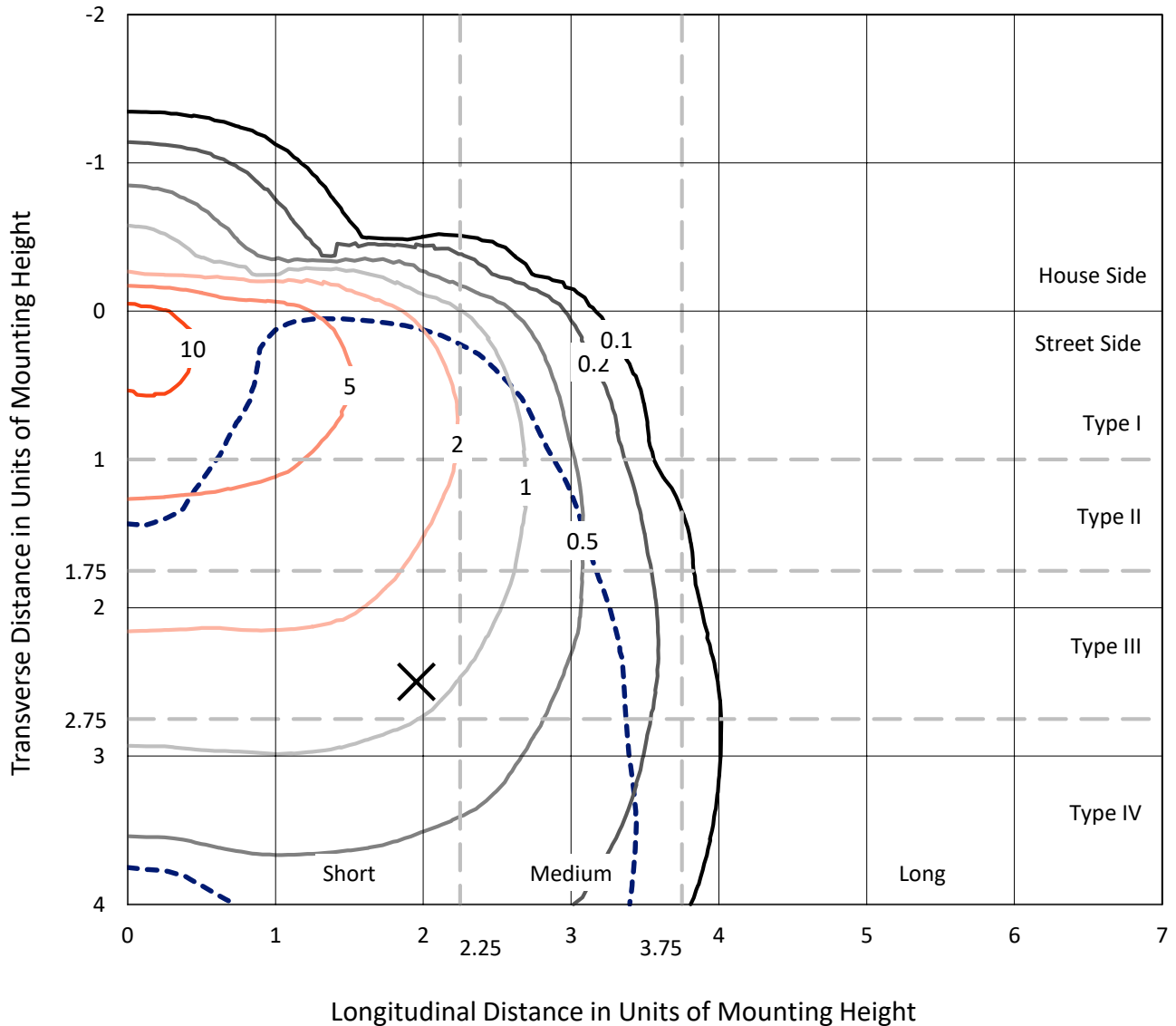
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

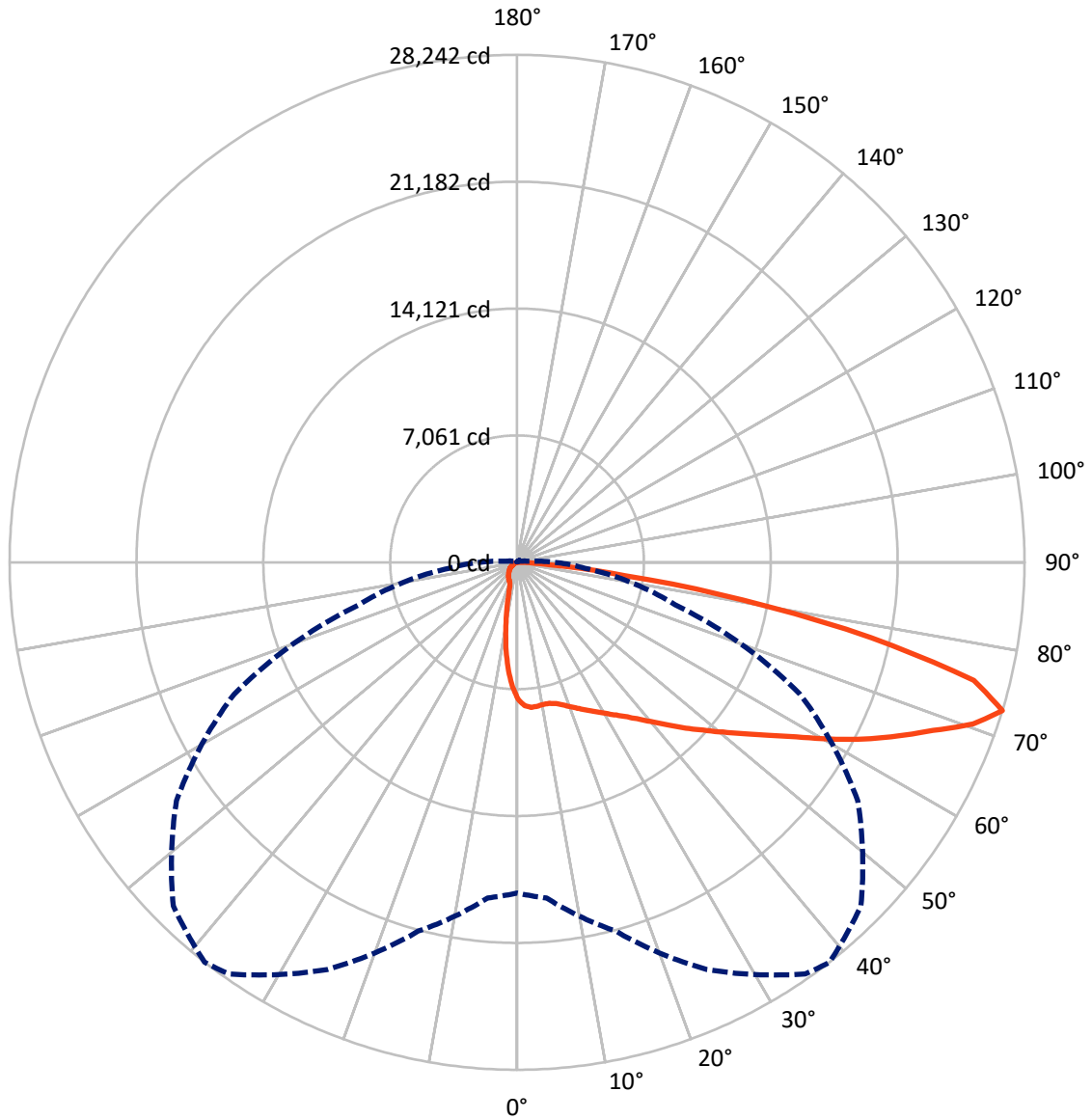
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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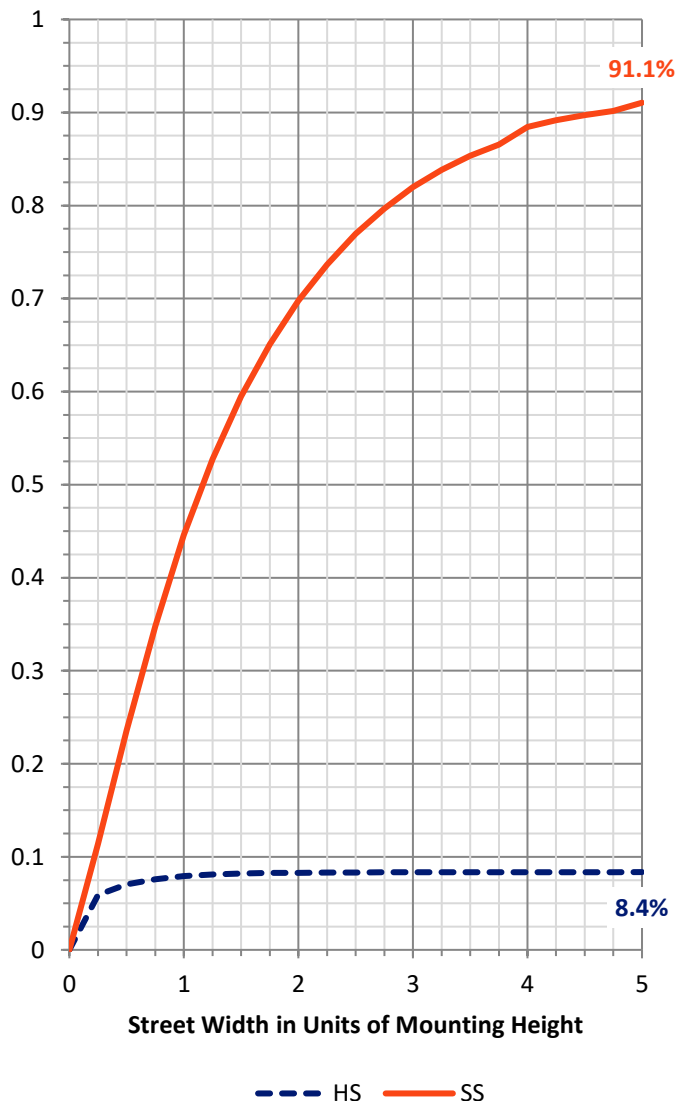
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3489.3	0.0	3489.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	37973.7	0.0	37973.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	41463.0	0.0	41463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.8	1.6
10°-20°	1588.9	3.8
20°-30°	2527.1	6.1
30°-40°	3799.2	9.2
40°-50°	5795.9	14.0
50°-60°	8191.6	19.8
60°-70°	10275.0	24.8
70°-80°	7682.8	18.5
80°-90°	952.6	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°	41463.0	100.0
0°-180°	41463.0	100.0

Coefficient of Utilization



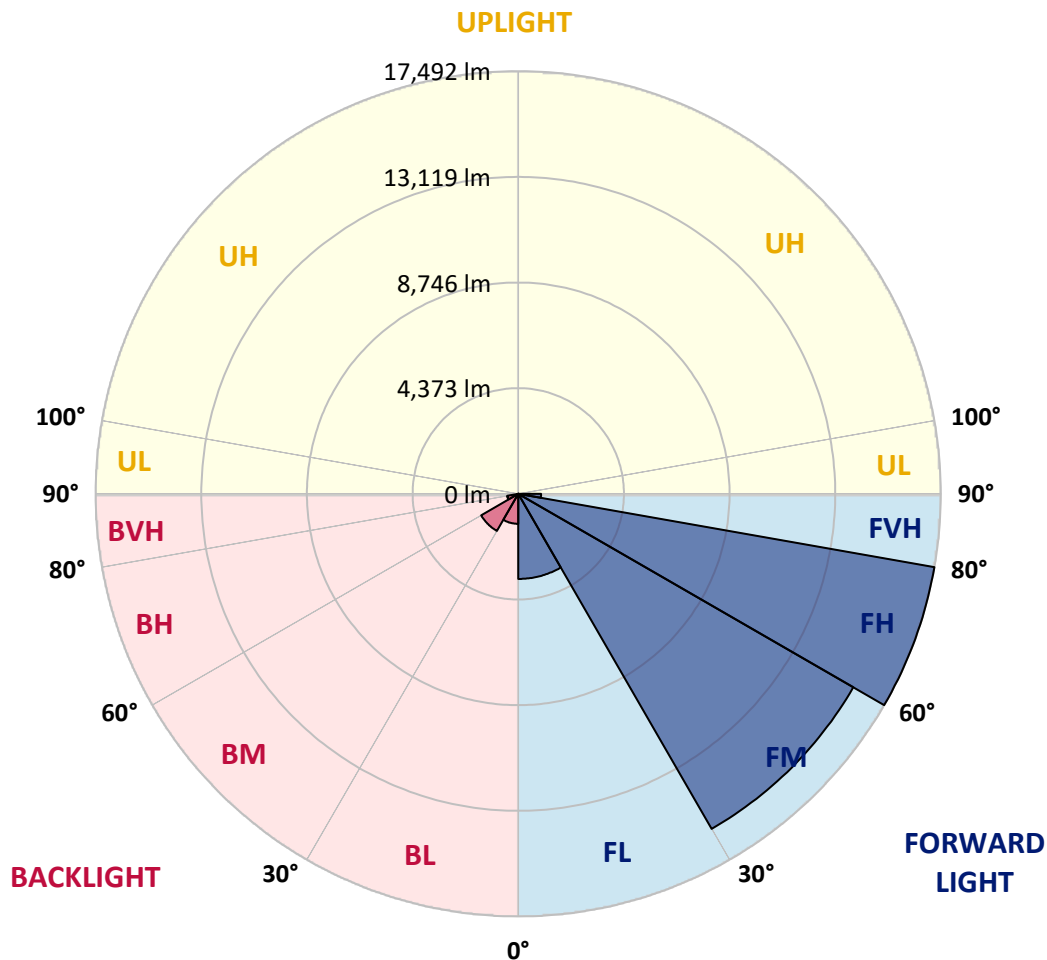
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3523.4	8.5			
FM (30°-60°)	16014.8	38.6			
FH (60°-80°)	17491.8	42.2			G5
FVH (80°-90°)	943.8	2.3			G5
BL (0°-30°)	1242.4	3.0	B3/2500		
BM (30°-60°)	1771.9	4.3	B2/2500		
BH (60°-80°)	466.1	1.1	B1/500		G1/500
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9
2.5°	8093.3	8095.0	8076.1	8045.1	8005.5	7984.8	7950.4	7895.3	7836.7	7731.7	7618.0
5°	8258.6	8258.6	8234.5	8193.2	8129.4	8110.5	8045.1	7957.3	7836.7	7666.2	7475.1
7.5°	8241.4	8244.8	8212.1	8169.1	8105.3	8088.1	8008.9	7910.8	7760.9	7554.3	7309.8
10°	8151.8	8160.4	8134.6	8114.0	8055.4	8036.5	7962.4	7864.3	7714.5	7494.0	7213.4
12.5°	8060.6	8069.2	8077.8	8096.7	8060.6	8053.7	7995.1	7912.5	7769.6	7540.5	7223.7
15°	8002.0	8019.2	8081.2	8155.3	8163.9	8157.0	8119.1	8041.6	7897.0	7659.3	7297.7
17.5°	8002.0	8029.6	8158.7	8299.9	8349.9	8355.0	8322.3	8213.8	8041.6	7786.8	7366.6
20°	8069.2	8107.1	8308.5	8508.3	8590.9	8590.9	8527.2	8375.7	8174.2	7902.1	7413.1
22.5°	8241.4	8291.3	8544.4	8775.2	8863.0	8844.1	8758.0	8537.6	8312.0	8033.0	7471.7
25°	8580.6	8618.5	8882.0	9114.4	9167.8	9124.7	9016.3	8733.9	8487.6	8210.4	7578.4
27.5°	9018.0	9023.2	9295.2	9491.5	9458.8	9429.5	9293.5	8980.1	8740.7	8463.5	7762.7
30°	9498.4	9498.4	9737.8	9887.6	9787.7	9763.6	9627.6	9278.0	9064.5	8807.9	8024.4
32.5°	9963.4	9984.0	10178.6	10273.3	10161.4	10137.3	10004.7	9655.1	9495.0	9333.1	8432.5
35°	10412.8	10428.3	10612.5	10664.2	10557.4	10564.3	10469.6	10173.4	10113.2	10092.5	9047.3
37.5°	10848.4	10851.9	11039.6	11072.3	11018.9	11077.5	11086.1	10824.3	10936.3	11103.3	9913.4
40°	11246.2	11249.7	11435.6	11520.0	11611.3	11687.1	11754.2	11614.7	11985.0	12372.4	10944.9
42.5°	11564.8	11601.0	11836.9	11997.0	12238.1	12382.7	12565.3	12558.4	13233.4	13815.4	12191.6
45°	11845.5	11907.5	12236.4	12517.0	12930.3	13161.1	13446.9	13670.8	14638.5	15422.0	13453.8
47.5°	12215.7	12274.2	12649.6	13109.4	13660.4	13963.5	14437.0	14920.9	16183.1	16999.3	14686.7
50°	12737.5	12711.6	13081.9	13741.4	14449.1	14846.9	15521.9	16246.8	17715.7	18373.5	15411.7
52.5°	13293.7	13283.3	13557.1	14428.4	15379.0	15843.9	16735.9	17617.5	19181.1	19320.6	15744.0
55°	13982.4	13908.4	14139.1	15211.9	16482.8	16982.1	18032.5	18974.5	20348.6	19854.4	15911.1
57.5°	14704.0	14581.7	14802.1	16085.0	17727.7	18318.4	19468.7	20296.9	21125.2	20219.4	15909.3
60°	15449.6	15304.9	15566.7	17176.7	19274.1	19957.7	21025.3	21190.6	21850.2	20403.7	15792.2
62.5°	16072.9	15986.8	16376.0	18344.2	21001.2	21672.8	22201.4	22003.4	22461.5	20546.6	15518.4
65°	16732.4	16737.6	17366.1	19706.3	22836.8	23289.7	23334.5	23057.3	22972.9	20517.3	14592.0
67.5°	17624.4	17707.1	18755.8	21555.7	24622.5	24972.1	24968.6	24198.9	23346.5	19353.3	12537.7
70°	18568.1	18762.6	20357.2	23672.0	26571.8	26926.5	26744.0	24925.6	21982.7	15649.3	8873.3
72.5°	18409.6	18747.2	21247.5	25006.5	27971.8	28242.1	27055.7	23139.9	17374.7	9095.5	3778.0
75°	14202.9	14593.7	19482.4	23684.1	26502.9	26260.1	23246.7	18006.7	9495.0	2538.2	850.7
77.5°	7502.6	7711.0	12870.0	18042.9	20665.4	20157.4	16376.0	9989.2	2894.6	628.5	382.3
80°	3929.5	3977.8	5608.5	10237.1	12754.7	12758.1	9705.1	4387.6	1193.3	322.0	256.6
82.5°	2104.3	2145.6	2963.5	4730.3	6683.0	6057.9	3716.0	2414.2	694.0	182.5	246.2
85°	506.3	514.9	1680.6	2161.1	2627.7	1877.0	1103.8	2026.8	187.7	106.8	199.7
87.5°	194.6	198.0	623.4	935.0	669.8	433.9	516.6	755.9	24.1	41.3	31.0
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°	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9	7624.9
2.5°	7549.1	7504.4	7394.2	7254.7	7130.7	7041.2	6906.8	6819.0	6760.5	6758.8	6736.4
5°	7358.0	7266.7	7029.1	6746.7	6490.1	6259.4	5987.3	5772.1	5611.9	5586.1	5531.0
7.5°	7153.1	7003.3	6638.2	6197.4	5766.9	5329.5	4821.5	4506.4	4236.1	4106.9	4093.1
10°	7027.4	6817.3	6299.0	5661.9	4986.8	4275.7	3611.0	3151.2	2818.9	2724.2	2653.6
12.5°	7001.6	6724.3	6037.2	5159.0	4194.7	3254.5	2519.3	2030.2	1765.0	1680.6	1658.3
15°	7027.4	6681.3	5816.8	4661.4	3392.3	2309.2	1691.0	1406.9	1307.0	1282.9	1281.2
17.5°	7042.9	6629.6	5567.1	4108.6	2614.0	1649.7	1294.9	1212.3	1196.8	1195.1	1198.5
20°	7041.2	6550.4	5269.2	3492.2	1944.1	1296.6	1170.9	1153.7	1150.3	1152.0	1150.3
22.5°	7029.1	6457.4	4942.1	2856.8	1468.8	1158.9	1117.6	1107.2	1105.5	1105.5	1105.5
25°	7051.5	6383.4	4582.2	2248.9	1210.5	1095.2	1069.3	1060.7	1059.0	1059.0	1055.6
27.5°	7132.4	6342.0	4187.8	1730.6	1093.5	1038.4	1017.7	1016.0	1010.8	1009.1	1012.5
30°	7263.3	6342.0	3755.6	1346.6	1022.9	979.8	964.3	960.9	959.1	957.4	959.1
32.5°	7494.0	6390.3	3283.8	1119.3	955.7	914.4	904.0	909.2	904.0	904.0	904.0
35°	7910.8	6534.9	2789.6	976.4	885.1	850.7	840.3	847.2	843.8	843.8	842.0
37.5°	8518.6	6803.5	2291.9	890.3	823.1	786.9	773.2	783.5	780.1	780.1	778.3
40°	9259.1	7194.4	1818.4	824.8	762.8	725.0	712.9	718.1	709.5	709.5	712.9
42.5°	10173.4	7690.3	1405.1	761.1	702.6	666.4	659.5	654.4	638.9	630.2	632.0
45°	11189.4	8206.9	1095.2	699.1	645.7	616.5	606.1	592.4	566.5	549.3	551.0
47.5°	12096.9	8604.7	890.3	638.9	594.1	571.7	556.2	530.4	492.5	471.8	473.5
50°	12573.9	8665.0	757.7	578.6	545.9	523.5	501.1	461.5	416.7	394.3	392.6
52.5°	12696.1	8382.6	659.5	523.5	497.7	471.8	442.5	389.2	339.2	315.1	311.7
55°	12740.9	7952.1	571.7	471.8	446.0	416.7	378.8	318.6	272.1	248.0	246.2
57.5°	12592.8	7309.8	502.8	425.3	394.3	358.2	311.7	254.9	210.1	191.1	191.1
60°	12263.9	6440.2	449.4	375.4	341.0	299.6	251.4	198.0	156.7	141.2	141.2
62.5°	11607.8	5314.0	399.5	323.7	291.0	248.0	203.2	149.8	110.2	101.6	103.3
65°	10369.7	4031.1	349.6	277.2	248.0	204.9	158.4	106.8	74.0	74.0	77.5
67.5°	8456.6	2799.9	297.9	235.9	213.5	167.0	120.5	74.0	51.7	58.5	65.4
70°	5598.1	1570.4	254.9	194.6	182.5	132.6	89.5	49.9	41.3	55.1	67.2
72.5°	2112.9	611.3	213.5	156.7	158.4	101.6	63.7	37.9	37.9	60.3	79.2
75°	588.9	299.6	153.3	115.4	124.0	74.0	46.5	32.7	36.2	68.9	93.0
77.5°	346.1	220.4	99.9	67.2	84.4	51.7	31.0	25.8	31.0	58.5	89.5
80°	279.0	117.1	58.5	34.4	46.5	29.3	20.7	15.5	8.6	22.4	46.5
82.5°	279.0	70.6	27.6	24.1	24.1	15.5	10.3	6.9	1.7	0.0	12.1
85°	187.7	29.3	17.2	15.5	12.1	5.2	3.4	1.7	0.0	0.0	0.0
87.5°	31.0	12.1	6.9	3.4	1.7	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)