

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: P322203

Luminaire Tested: **GAN-SA9B-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33905 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

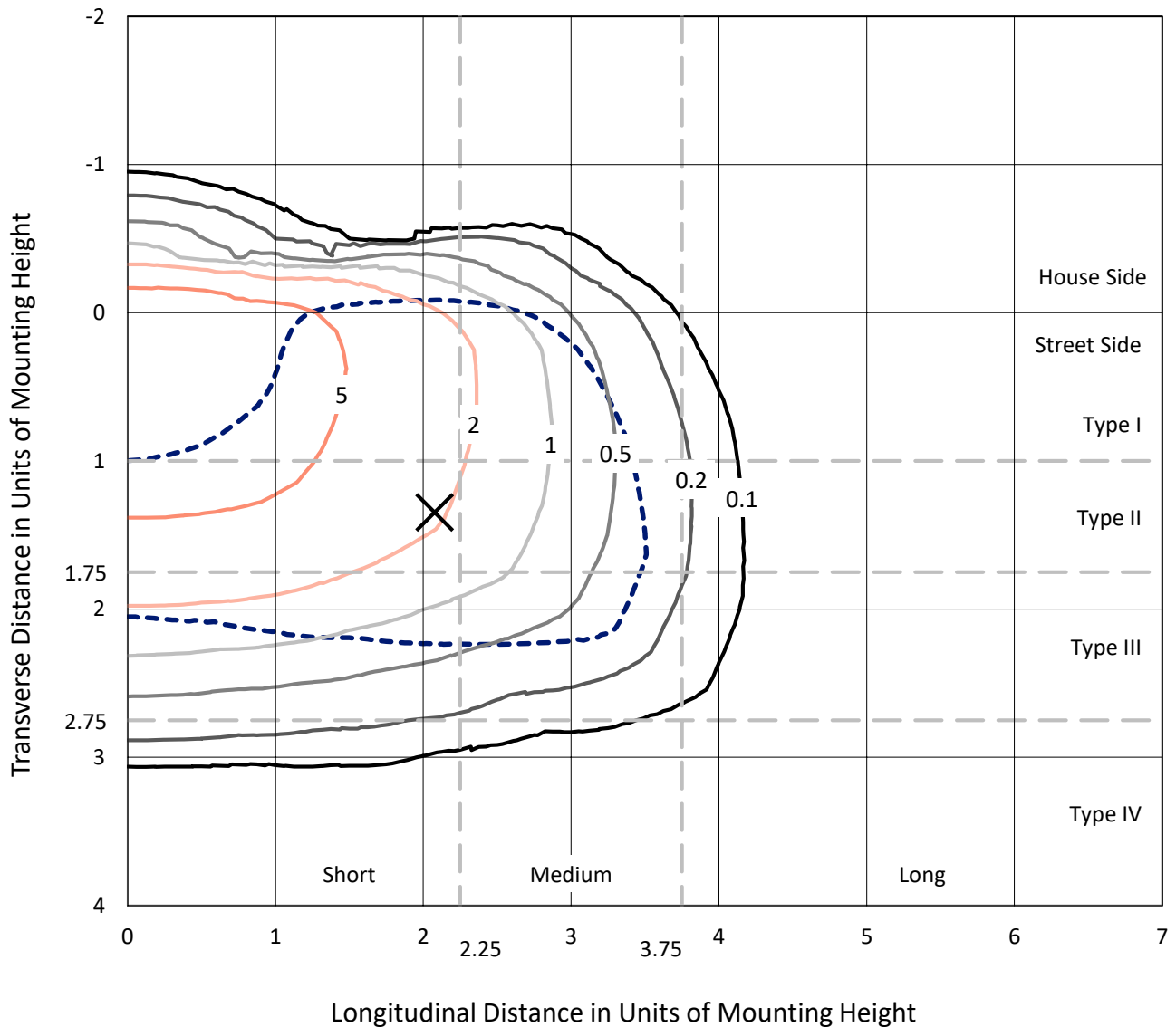
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

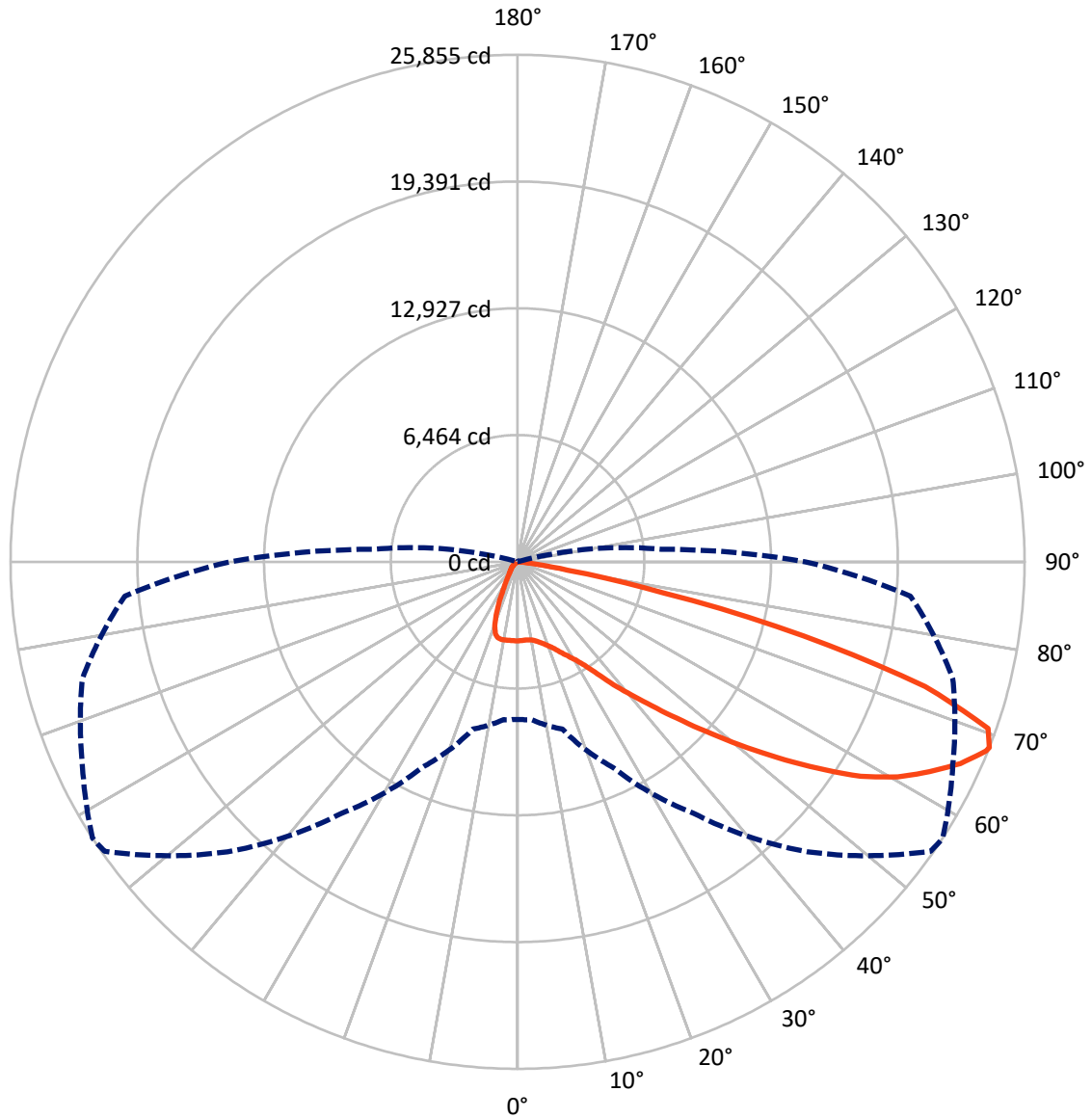
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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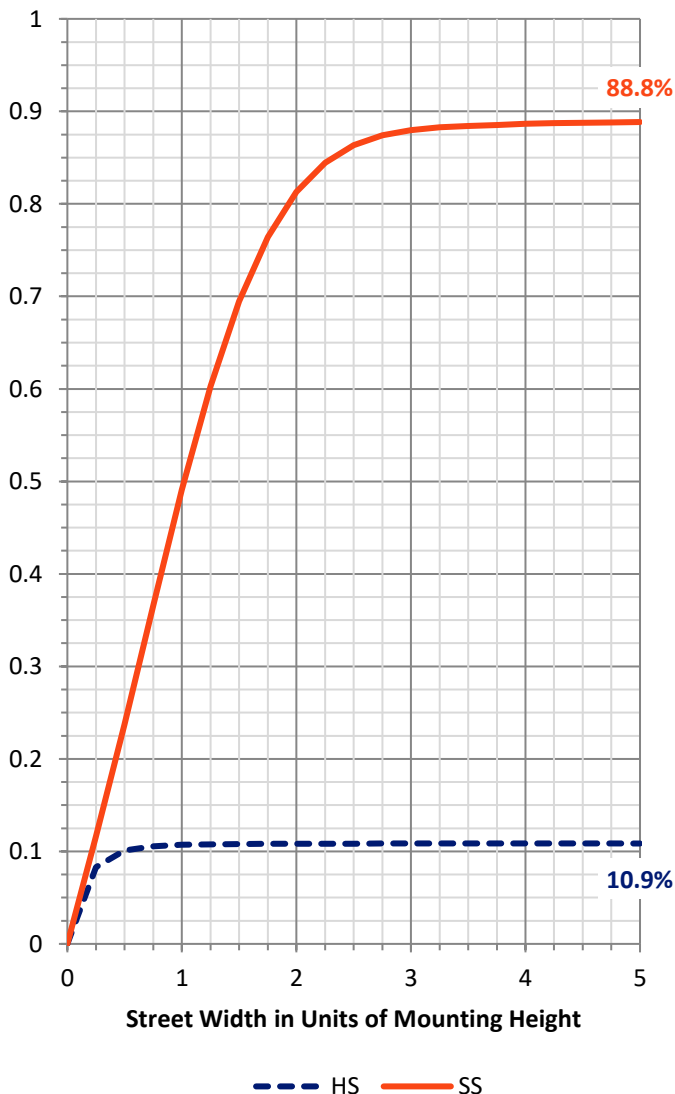
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3717.9	0.0	3717.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	30187.1	0.0	30187.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	33905.0	0.0	33905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.0	1.1
10°-20°	1044.8	3.1
20°-30°	1802.4	5.3
30°-40°	3110.8	9.2
40°-50°	5321.1	15.7
50°-60°	8513.3	25.1
60°-70°	9836.2	29.0
70°-80°	3758.5	11.1
80°-90°	140.9	0.4
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°	33905.0	100.0
0°-180°	33905.0	100.0

Coefficient of Utilization



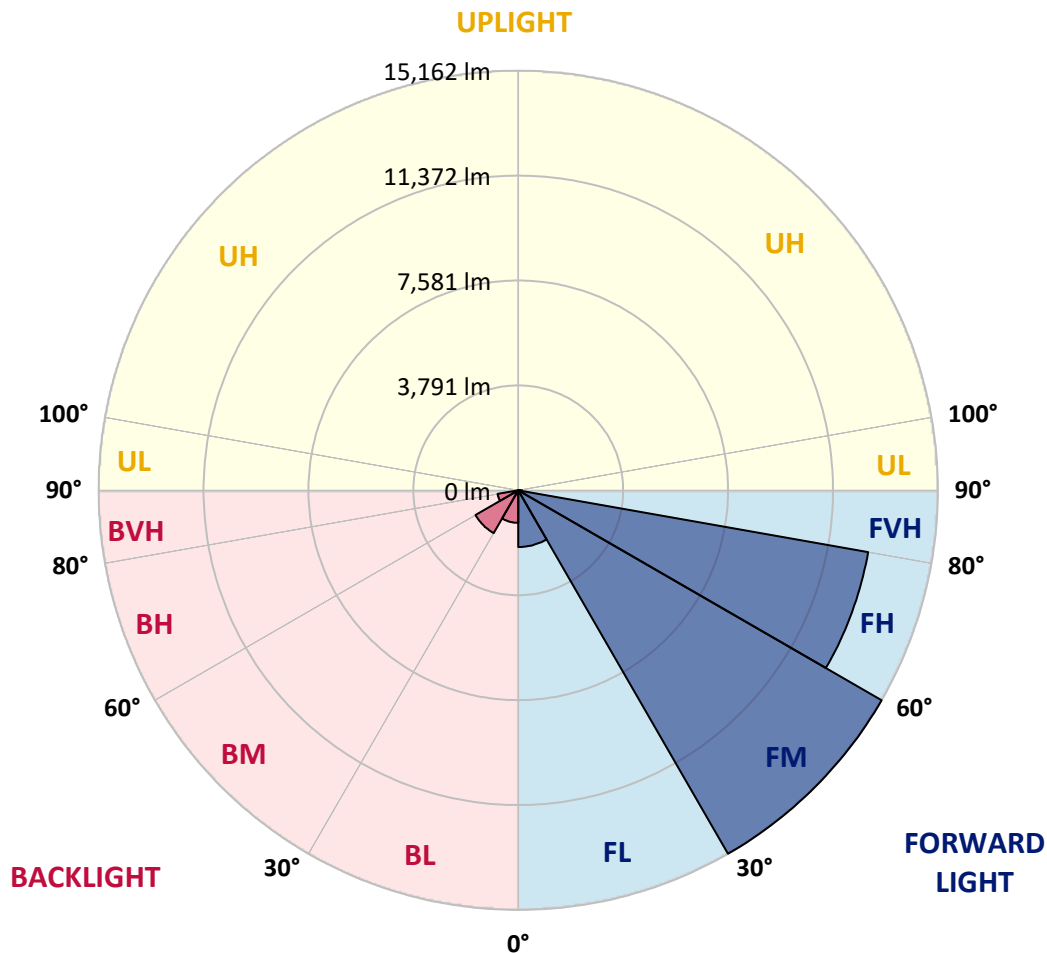
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.2	6.0			
FM (30°-60°)	15162.0	44.7			
FH (60°-80°)	12837.5	37.9			G5
FVH (80°-90°)	138.3	0.4			G2/225
BL (0°-30°)	1175.0	3.5	B3/2500		
BM (30°-60°)	1783.2	5.3	B2/2500		
BH (60°-80°)	757.2	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8
2.5°	3934.2	3951.9	3964.7	3972.7	3982.3	4003.2	4009.6	4019.2	4024.0	4024.0	4035.2
5°	3778.7	3797.9	3825.2	3847.6	3892.5	3950.3	3991.9	4008.0	4036.8	4062.5	4076.9
7.5°	3634.4	3656.9	3688.9	3741.8	3818.8	3911.8	3998.3	4020.8	4076.9	4131.4	4158.7
10°	3541.4	3559.1	3600.8	3676.1	3777.1	3907.0	4028.8	4056.1	4152.3	4243.6	4294.9
12.5°	3509.4	3525.4	3568.7	3653.7	3778.7	3931.0	4099.3	4139.4	4280.5	4413.6	4485.7
15°	3555.9	3559.1	3605.6	3685.7	3809.2	3990.3	4216.4	4264.5	4442.4	4615.6	4705.4
17.5°	3735.4	3721.0	3745.0	3780.3	3878.1	4068.9	4339.8	4412.0	4649.2	4852.8	4937.8
20°	4184.3	4184.3	4129.8	4033.6	4035.2	4190.7	4506.6	4588.3	4878.5	5114.2	5191.1
22.5°	4952.2	4937.8	4828.8	4593.1	4376.7	4400.7	4710.2	4816.0	5154.2	5405.9	5431.6
25°	5875.7	5858.0	5689.7	5357.8	4982.7	4740.6	4985.9	5107.8	5482.9	5705.7	5652.8
27.5°	6853.6	6839.2	6672.5	6260.4	5726.6	5282.5	5314.6	5430.0	5818.0	6037.6	5869.3
30°	7801.1	7805.9	7640.8	7217.5	6613.1	5973.5	5731.4	5798.7	6143.4	6366.3	6125.8
32.5°	8702.1	8708.5	8565.8	8092.9	7528.6	6776.7	6308.5	6290.9	6521.8	6741.4	6465.7
35°	9505.3	9521.3	9423.5	9056.4	8458.4	7671.2	7057.2	7015.5	7058.8	7307.3	6986.7
37.5°	10279.6	10289.3	10215.5	9906.1	9405.9	8654.0	8003.1	7943.8	7850.8	8041.6	7674.5
40°	11127.7	11103.7	11018.7	10738.1	10308.5	9739.4	9019.5	8916.9	8755.0	8924.9	8578.7
42.5°	11916.5	11889.2	11903.7	11586.2	11223.9	10855.2	10204.3	10027.9	9933.3	10128.9	9688.1
45°	12902.4	12888.0	12936.1	12660.4	12367.0	12099.2	11562.2	11369.8	11328.1	11557.4	11029.9
47.5°	13875.6	13910.8	14059.9	13942.9	13824.3	13588.6	13000.2	12913.7	12939.3	13216.7	12445.5
50°	14686.8	14728.5	15137.3	15272.0	15443.5	15305.6	14715.6	14662.7	14763.7	15013.8	13968.6
52.5°	15273.6	15358.5	15866.7	16487.2	17112.4	17205.4	16617.0	16568.9	16705.2	16743.7	15145.3
55°	15680.8	15756.1	16331.7	17466.7	18739.6	19140.4	18774.9	18588.9	18563.3	18183.3	16383.0
57.5°	15752.9	15744.9	16572.1	18100.0	20015.8	21049.8	20819.0	20636.2	20110.4	19514.0	17801.8
60°	15345.7	15392.2	16352.5	18319.6	20817.4	22494.3	22511.9	22274.7	21455.4	20807.8	19177.3
62.5°	14092.0	14281.2	15251.1	17744.1	20807.8	23076.3	23752.8	23571.7	22592.1	21867.5	20572.1
65°	12059.2	12126.5	13051.5	15772.1	19401.8	22832.6	24870.2	24802.9	23616.5	22896.7	21288.7
67.5°	8806.3	8660.4	9631.9	12419.9	16426.2	21412.2	25671.8	25756.8	24406.9	23108.3	20525.6
68°	8036.8	8080.1	8836.8	11591.0	15647.1	20910.4	25724.7	25854.6	24485.5	22970.5	20108.8
70°	4790.3	4873.7	5548.6	7980.7	11903.7	18071.1	25154.0	25450.6	24017.3	21548.4	17393.0
72.5°	1223.2	1322.6	1960.7	3571.9	6799.1	12732.5	21234.2	21736.0	20852.6	17481.1	11741.7
75°	503.4	529.1	700.6	1176.7	2533.0	5736.2	13995.8	15070.0	14455.9	10465.6	5306.5
77.5°	347.9	365.5	450.5	652.5	1096.6	1944.7	6861.6	7637.6	6880.9	3571.9	1157.5
80°	250.1	264.5	322.2	434.5	630.1	694.2	2236.4	2585.9	2053.7	784.0	287.0
82.5°	149.1	160.3	240.5	309.4	383.2	331.9	556.3	631.7	594.8	389.6	128.3
85°	73.7	86.6	161.9	221.2	206.8	139.5	169.9	189.2	234.1	237.3	68.9
87.5°	4.8	9.6	94.6	133.1	57.7	32.1	49.7	60.9	83.4	117.0	28.9
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°	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8	4028.8
2.5°	4040.0	4041.6	4030.4	4025.6	4028.8	4009.6	4001.6	4004.8	4004.8	4009.6	4001.6
5°	4080.1	4080.1	4060.9	4035.2	4020.8	3983.9	3959.9	3953.5	3948.6	3945.4	3939.0
7.5°	4166.7	4157.1	4123.4	4067.3	4019.2	3939.0	3878.1	3846.0	3830.0	3823.6	3818.8
10°	4306.2	4288.5	4232.4	4128.2	4017.6	3874.9	3741.8	3647.2	3568.7	3536.6	3517.4
12.5°	4493.7	4468.1	4373.5	4200.3	4006.4	3743.4	3454.9	3177.5	2919.4	2813.6	2760.7
15°	4710.2	4673.3	4524.2	4261.3	3940.6	3446.9	2820.0	2334.2	1976.7	1842.1	1784.3
17.5°	4929.8	4881.7	4655.7	4299.7	3743.4	2832.8	1978.3	1494.2	1255.3	1191.2	1168.7
20°	5151.0	5080.5	4769.5	4270.9	3297.8	2042.5	1305.0	1091.8	1022.8	1003.6	997.2
22.5°	5361.1	5252.0	4872.1	4158.7	2611.6	1370.7	1032.5	965.1	942.7	931.5	928.2
25°	5543.8	5391.5	4961.9	3812.4	1848.5	1035.7	929.8	907.4	878.5	857.7	859.3
27.5°	5715.4	5531.0	5016.4	3241.6	1232.9	885.0	860.9	830.5	777.5	747.1	747.1
30°	5922.2	5717.0	5056.5	2494.6	907.4	782.4	763.1	716.6	644.5	604.4	604.4
32.5°	6233.2	5999.1	5030.8	1750.7	751.9	687.8	642.9	578.8	500.2	461.7	460.1
35°	6709.3	6435.2	4848.0	1147.9	663.7	598.0	525.8	447.3	378.4	346.3	344.7
37.5°	7350.6	7018.8	4437.6	820.8	594.8	514.6	428.1	341.5	290.2	269.3	267.7
40°	8182.7	7696.9	3850.9	665.3	530.7	434.5	330.3	264.5	229.3	213.2	214.8
42.5°	9181.4	8423.1	3147.1	573.9	468.1	357.5	258.1	208.4	186.0	174.7	171.5
45°	10290.9	9139.8	2409.6	511.4	405.6	288.6	202.0	165.1	147.5	141.1	141.1
47.5°	11510.9	9837.2	1763.5	456.9	338.3	222.8	161.9	134.7	120.2	115.4	113.8
50°	12618.7	10321.3	1271.3	399.2	277.4	176.4	131.5	112.2	102.6	96.2	96.2
52.5°	13542.1	10473.6	936.3	336.7	224.4	141.1	109.0	96.2	86.6	81.8	81.8
55°	14354.9	10411.1	695.8	277.4	181.2	115.4	93.0	81.8	73.7	68.9	68.9
57.5°	15134.1	10209.1	519.4	226.0	145.9	93.0	78.6	68.9	60.9	57.7	57.7
60°	15770.5	9872.4	386.4	182.8	117.0	75.3	65.7	56.1	49.7	44.9	44.9
62.5°	16286.8	9500.5	283.8	150.7	93.0	59.3	51.3	46.5	36.9	32.1	32.1
65°	16290.0	8883.3	213.2	125.0	72.1	46.5	38.5	36.9	24.0	19.2	17.6
67.5°	15111.6	7658.4	163.5	107.4	56.1	35.3	28.9	30.5	12.8	8.0	6.4
68°	14683.6	7347.4	153.9	105.8	52.9	33.7	27.3	30.5	11.2	6.4	4.8
70°	12379.8	5845.2	123.4	102.6	46.5	25.7	22.4	30.5	9.6	4.8	3.2
72.5°	7918.1	3392.3	91.4	81.8	35.3	19.2	14.4	27.3	9.6	3.2	1.6
75°	3369.9	1051.7	62.5	57.7	20.8	14.4	9.6	17.6	6.4	1.6	0.0
77.5°	710.2	237.3	36.9	35.3	14.4	9.6	6.4	4.8	1.6	0.0	0.0
80°	182.8	68.9	19.2	17.6	8.0	4.8	3.2	0.0	0.0	0.0	0.0
82.5°	57.7	27.3	11.2	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.9	16.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	4.8	1.6	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)