

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: P322221

Luminaire Tested: **GAN-SA7D-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322221
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-SA7D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 36423 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

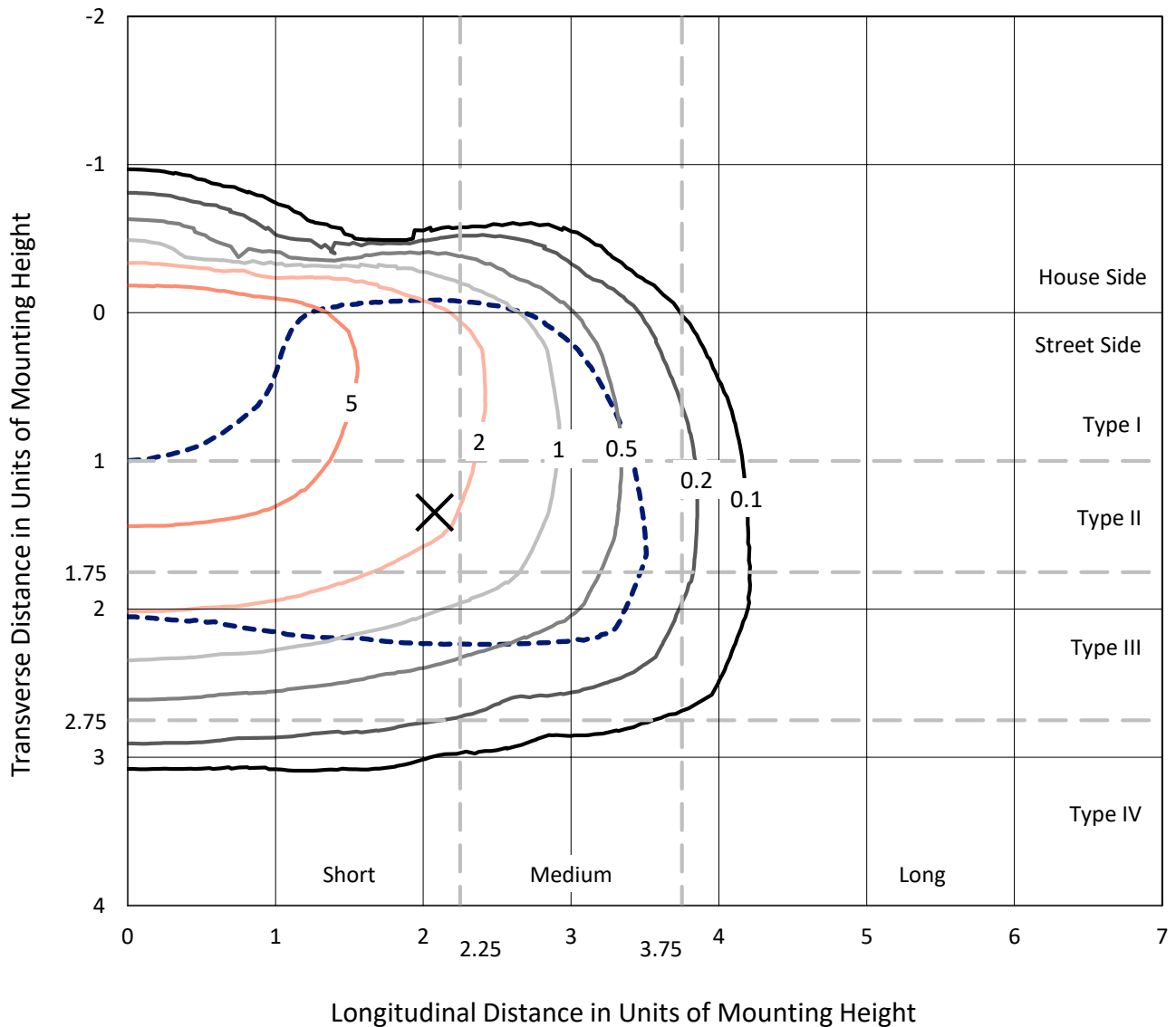
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

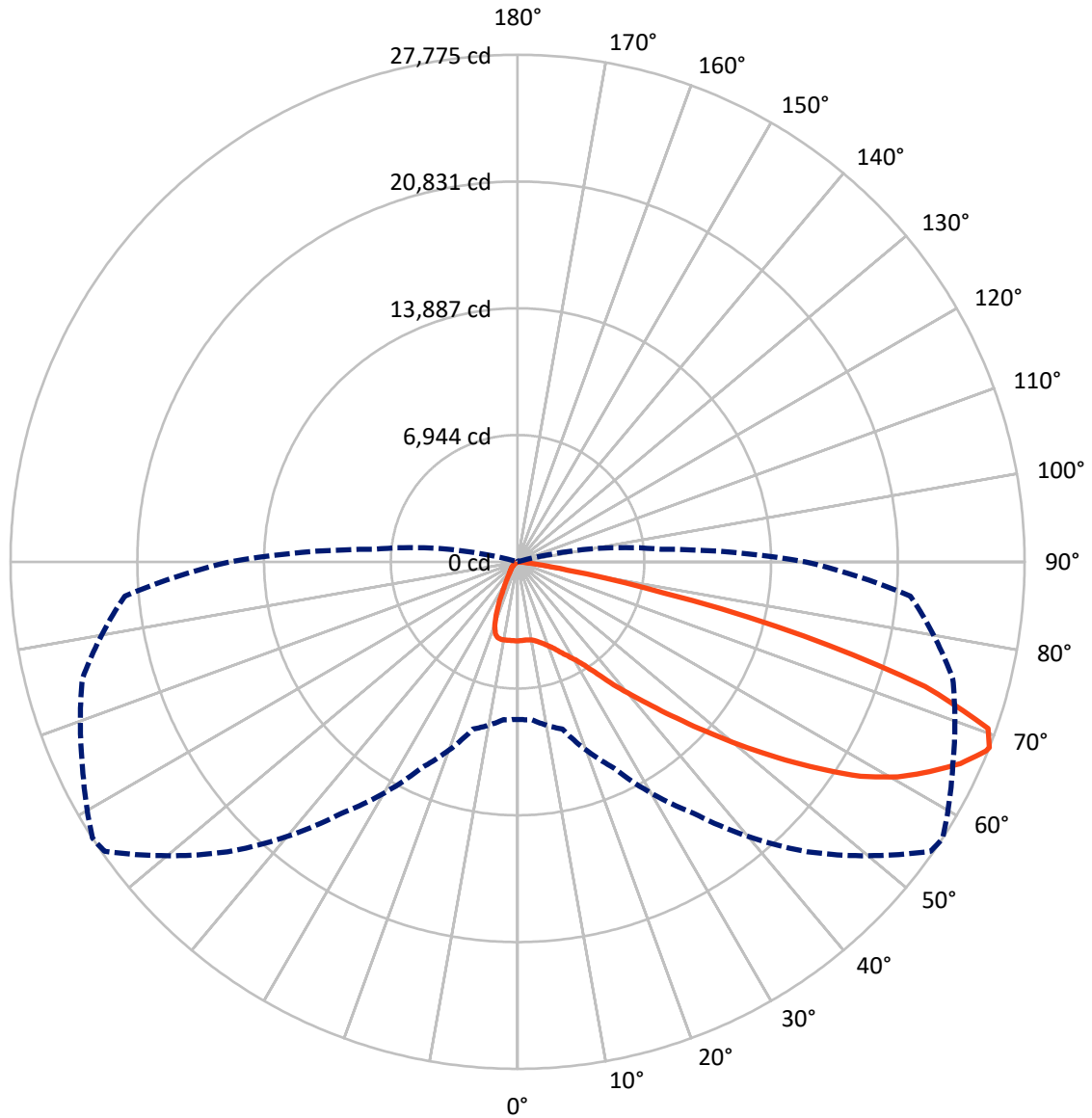
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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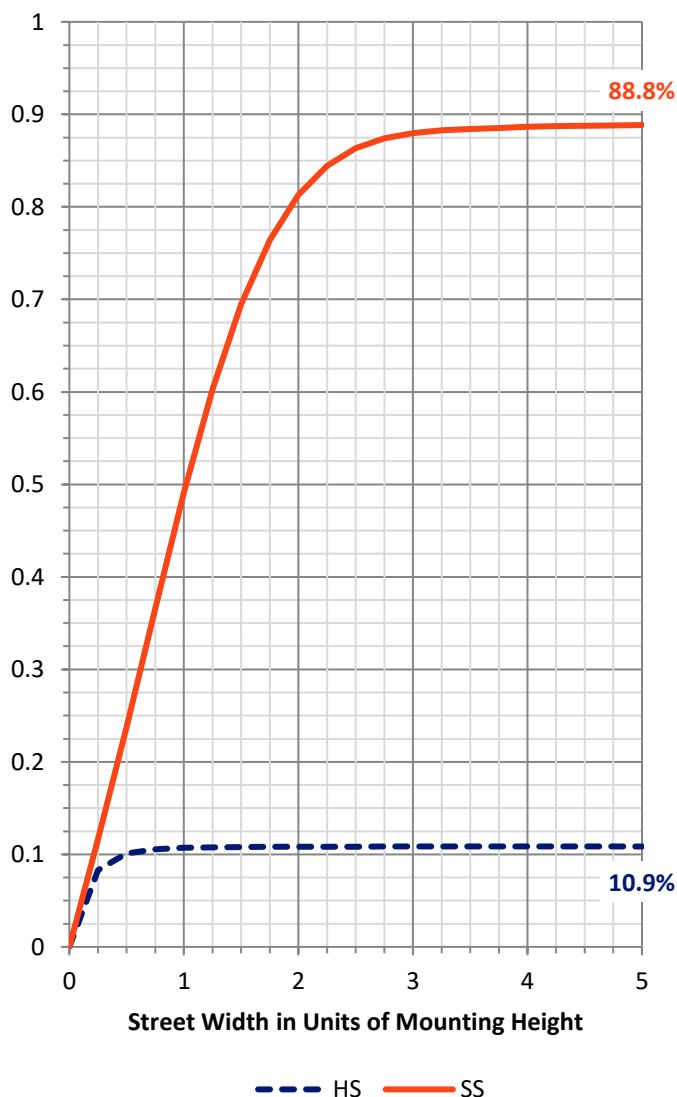
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3994.0	0.0	3994.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	32429.0	0.0	32429.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	36423.0	0.0	36423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.0	1.1
10°-20°	1122.4	3.1
20°-30°	1936.2	5.3
30°-40°	3341.8	9.2
40°-50°	5716.3	15.7
50°-60°	9145.5	25.1
60°-70°	10566.7	29.0
70°-80°	4037.7	11.1
80°-90°	151.4	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°	36423.0	100.0
0°-180°	36423.0	100.0

Coefficient of Utilization



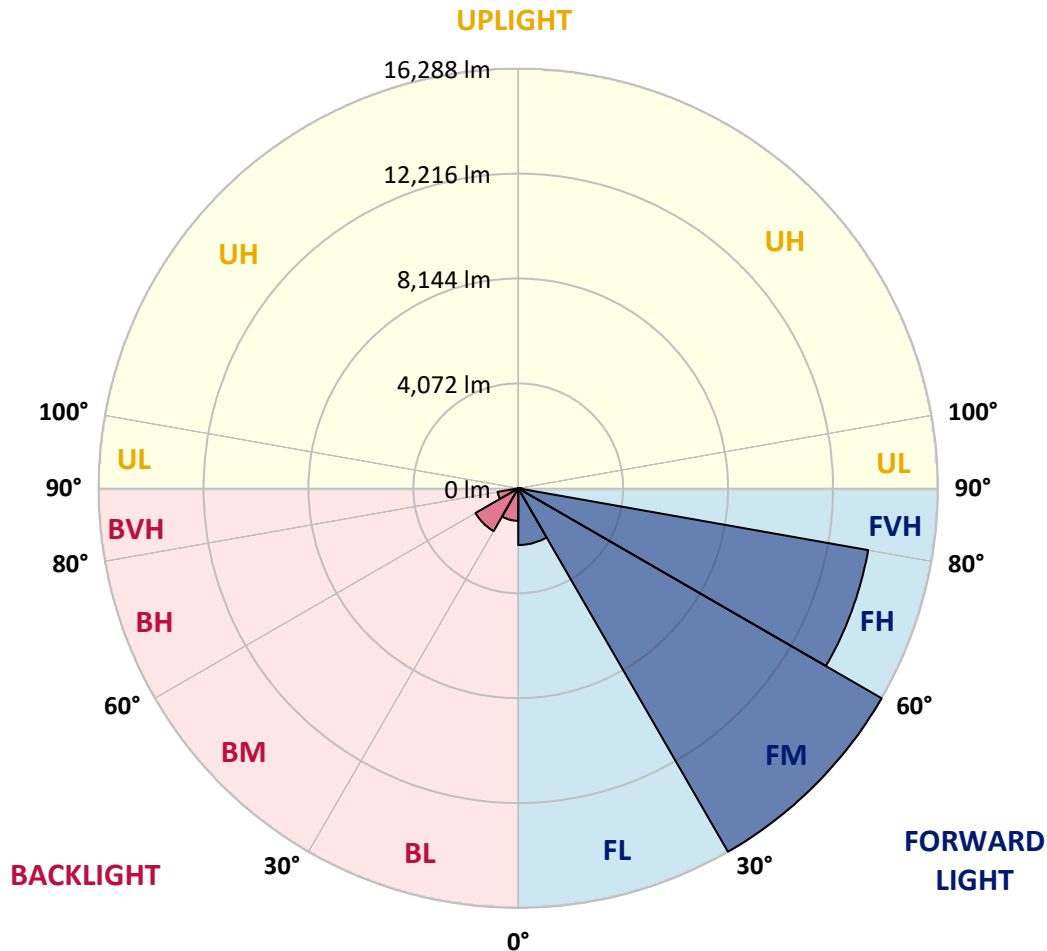
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.4	6.0			
FM (30°-60°)	16288.1	44.7			
FH (60°-80°)	13790.9	37.9			G5
FVH (80°-90°)	148.6	0.4			G2/225
BL (0°-30°)	1262.2	3.5	B3/2500		
BM (30°-60°)	1915.6	5.3	B2/2500		
BH (60°-80°)	813.4	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0
2.5°	4226.4	4245.3	4259.1	4267.7	4278.1	4300.5	4307.3	4317.7	4322.8	4322.8	4334.9
5°	4059.3	4080.0	4109.3	4133.4	4181.6	4243.6	4288.4	4305.6	4336.6	4364.2	4379.7
7.5°	3904.3	3928.5	3962.9	4019.7	4102.4	4202.3	4295.3	4319.4	4379.7	4438.2	4467.5
10°	3804.4	3823.4	3868.2	3949.1	4057.6	4197.1	4328.0	4357.3	4460.6	4558.8	4613.9
12.5°	3770.0	3787.2	3833.7	3925.0	4059.3	4223.0	4403.8	4446.8	4598.4	4741.4	4818.9
15°	3819.9	3823.4	3873.3	3959.5	4092.1	4286.7	4529.5	4581.2	4772.4	4958.4	5054.8
17.5°	4012.8	3997.3	4023.2	4061.1	4166.1	4371.1	4662.1	4739.6	4994.5	5213.2	5304.5
20°	4495.1	4495.1	4436.5	4333.2	4334.9	4502.0	4841.2	4929.1	5240.8	5494.0	5576.6
22.5°	5320.0	5304.5	5187.4	4934.2	4701.7	4727.6	5060.0	5173.6	5537.0	5807.4	5835.0
25°	6312.0	6293.1	6112.3	5755.8	5352.8	5092.7	5356.2	5487.1	5890.1	6129.5	6072.7
27.5°	7362.6	7347.1	7168.0	6725.4	6151.9	5674.8	5709.3	5833.3	6250.0	6486.0	6305.2
30°	8380.5	8385.6	8208.2	7753.6	7104.3	6417.1	6157.0	6229.4	6599.7	6839.1	6580.7
32.5°	9348.4	9355.3	9202.0	8693.9	8087.7	7279.9	6777.1	6758.1	7006.1	7242.1	6945.8
35°	10211.2	10228.4	10123.4	9729.0	9086.6	8241.0	7581.3	7536.6	7583.1	7850.0	7505.6
37.5°	11043.1	11053.4	10974.2	10641.8	10104.4	9296.7	8597.5	8533.7	8433.9	8638.8	8244.4
40°	11954.1	11928.3	11837.0	11535.6	11074.1	10462.7	9689.4	9579.2	9405.2	9587.8	9215.8
42.5°	12801.5	12772.2	12787.7	12446.7	12057.5	11661.4	10962.1	10772.7	10671.1	10881.2	10407.6
45°	13860.7	13845.2	13896.8	13600.6	13285.4	12997.8	12420.9	12214.2	12169.4	12415.7	11849.1
47.5°	14906.1	14944.0	15104.1	14978.4	14851.0	14597.8	13965.7	13872.7	13900.3	14198.2	13369.8
50°	15777.5	15822.3	16261.5	16406.1	16590.4	16442.3	15808.5	15751.7	15860.2	16128.9	15006.0
52.5°	16407.9	16499.1	17045.1	17711.6	18383.3	18483.2	17851.1	17799.4	17945.8	17987.2	16270.1
55°	16845.3	16926.3	17544.6	18763.9	20131.4	20561.9	20169.3	19969.5	19941.9	19533.8	17599.7
57.5°	16922.8	16914.2	17802.9	19444.2	21502.3	22613.1	22365.1	22168.8	21603.9	20963.2	19123.9
60°	16485.4	16535.3	17566.9	19680.1	22363.4	24164.9	24183.8	23928.9	23048.9	22353.1	20601.5
62.5°	15138.6	15341.8	16383.8	19061.9	22353.1	24790.1	25516.8	25322.2	24269.9	23491.5	22099.9
65°	12954.8	13027.1	14020.8	16943.5	20842.7	24528.3	26717.3	26644.9	25370.5	24597.2	22869.7
67.5°	9460.3	9303.6	10347.3	13342.3	17646.2	23002.4	27578.4	27669.7	26219.5	24824.5	22050.0
68°	8633.6	8680.1	9493.0	12451.9	16809.2	22463.3	27635.2	27774.7	26303.9	24676.4	21602.2
70°	5146.1	5235.6	5960.7	8573.4	12787.7	19413.2	27022.1	27340.7	25801.0	23148.8	18684.7
72.5°	1314.1	1420.9	2106.3	3837.2	7304.1	13678.1	22811.2	23350.3	22401.3	18779.4	12613.8
75°	540.8	568.3	752.6	1264.1	2721.2	6162.2	15035.2	16189.1	15529.5	11242.8	5700.6
77.5°	373.7	392.7	484.0	701.0	1178.0	2089.1	7371.2	8204.8	7391.9	3837.2	1243.5
80°	268.7	284.2	346.2	466.7	676.8	745.7	2402.5	2778.0	2206.2	842.2	308.3
82.5°	160.2	172.2	258.3	332.4	411.6	356.5	597.6	678.6	639.0	418.5	137.8
85°	79.2	93.0	173.9	237.7	222.2	149.8	182.6	203.2	251.4	254.9	74.1
87.5°	5.2	10.3	101.6	142.9	62.0	34.4	53.4	65.4	89.6	125.7	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°	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0	4328.0
2.5°	4340.1	4341.8	4329.7	4324.6	4328.0	4307.3	4298.7	4302.2	4302.2	4307.3	4298.7
5°	4383.1	4383.1	4362.5	4334.9	4319.4	4279.8	4254.0	4247.1	4241.9	4238.5	4231.6
7.5°	4476.1	4465.8	4429.6	4369.3	4317.7	4231.6	4166.1	4131.7	4114.5	4107.6	4102.4
10°	4626.0	4607.0	4546.7	4434.8	4316.0	4162.7	4019.7	3918.1	3833.7	3799.3	3778.6
12.5°	4827.5	4799.9	4698.3	4512.3	4303.9	4021.5	3711.4	3413.5	3136.2	3022.5	2965.7
15°	5060.0	5020.4	4860.2	4577.7	4233.3	3702.8	3029.4	2507.6	2123.5	1978.9	1916.9
17.5°	5295.9	5244.2	5001.4	4619.1	4021.5	3043.2	2125.3	1605.1	1348.5	1279.6	1255.5
20°	5533.6	5457.8	5123.7	4588.1	3542.7	2194.1	1401.9	1172.9	1098.8	1078.1	1071.2
22.5°	5759.2	5642.1	5233.9	4467.5	2805.5	1472.5	1109.1	1036.8	1012.7	1000.6	997.2
25°	5955.5	5791.9	5330.4	4095.5	1985.8	1112.6	998.9	974.8	943.8	921.4	923.1
27.5°	6139.8	5941.8	5388.9	3482.4	1324.4	950.7	924.8	892.1	835.3	802.6	802.6
30°	6362.0	6141.5	5432.0	2679.8	974.8	840.5	819.8	769.8	692.3	649.3	649.3
32.5°	6696.1	6444.7	5404.4	1880.7	807.7	738.8	690.6	621.7	537.3	496.0	494.3
35°	7207.6	6913.1	5208.1	1233.1	713.0	642.4	564.9	480.5	406.5	372.0	370.3
37.5°	7896.5	7540.0	4767.2	881.8	639.0	552.8	459.8	366.8	311.7	289.3	287.6
40°	8790.4	8268.5	4136.8	714.7	570.1	466.7	354.8	284.2	246.3	229.1	230.8
42.5°	9863.3	9048.7	3380.8	616.6	502.9	384.1	277.3	223.9	199.8	187.7	184.3
45°	11055.1	9818.5	2588.5	549.4	435.7	310.0	217.0	177.4	158.4	151.6	151.6
47.5°	12365.8	10567.7	1894.5	490.8	363.4	239.4	173.9	144.7	129.2	124.0	122.3
50°	13555.8	11087.8	1365.7	428.8	297.9	189.4	141.2	120.6	110.2	103.3	103.3
52.5°	14547.8	11251.5	1005.8	361.7	241.1	151.6	117.1	103.3	93.0	87.8	87.8
55°	15421.0	11184.3	747.5	297.9	194.6	124.0	99.9	87.8	79.2	74.1	74.1
57.5°	16258.0	10967.3	558.0	242.8	156.7	99.9	84.4	74.1	65.4	62.0	62.0
60°	16941.8	10605.6	415.1	196.3	125.7	80.9	70.6	60.3	53.4	48.2	48.2
62.5°	17496.3	10206.0	304.8	161.9	99.9	63.7	55.1	49.9	39.6	34.4	34.4
65°	17499.8	9543.0	229.1	134.3	77.5	49.9	41.3	39.6	25.8	20.7	18.9
67.5°	16233.9	8227.2	175.7	115.4	60.3	37.9	31.0	32.7	13.8	8.6	6.9
68°	15774.1	7893.1	165.3	113.7	56.8	36.2	29.3	32.7	12.1	6.9	5.2
70°	13299.2	6279.3	132.6	110.2	49.9	27.6	24.1	32.7	10.3	5.2	3.4
72.5°	8506.2	3644.3	98.2	87.8	37.9	20.7	15.5	29.3	10.3	3.4	1.7
75°	3620.2	1129.8	67.2	62.0	22.4	15.5	10.3	18.9	6.9	1.7	0.0
77.5°	763.0	254.9	39.6	37.9	15.5	10.3	6.9	5.2	1.7	0.0	0.0
80°	196.3	74.1	20.7	18.9	8.6	5.2	3.4	0.0	0.0	0.0	0.0
82.5°	62.0	29.3	12.1	8.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	17.2	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	5.2	1.7	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)