

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: P323149

Luminaire Tested: **GAN-SA5A-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17570 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

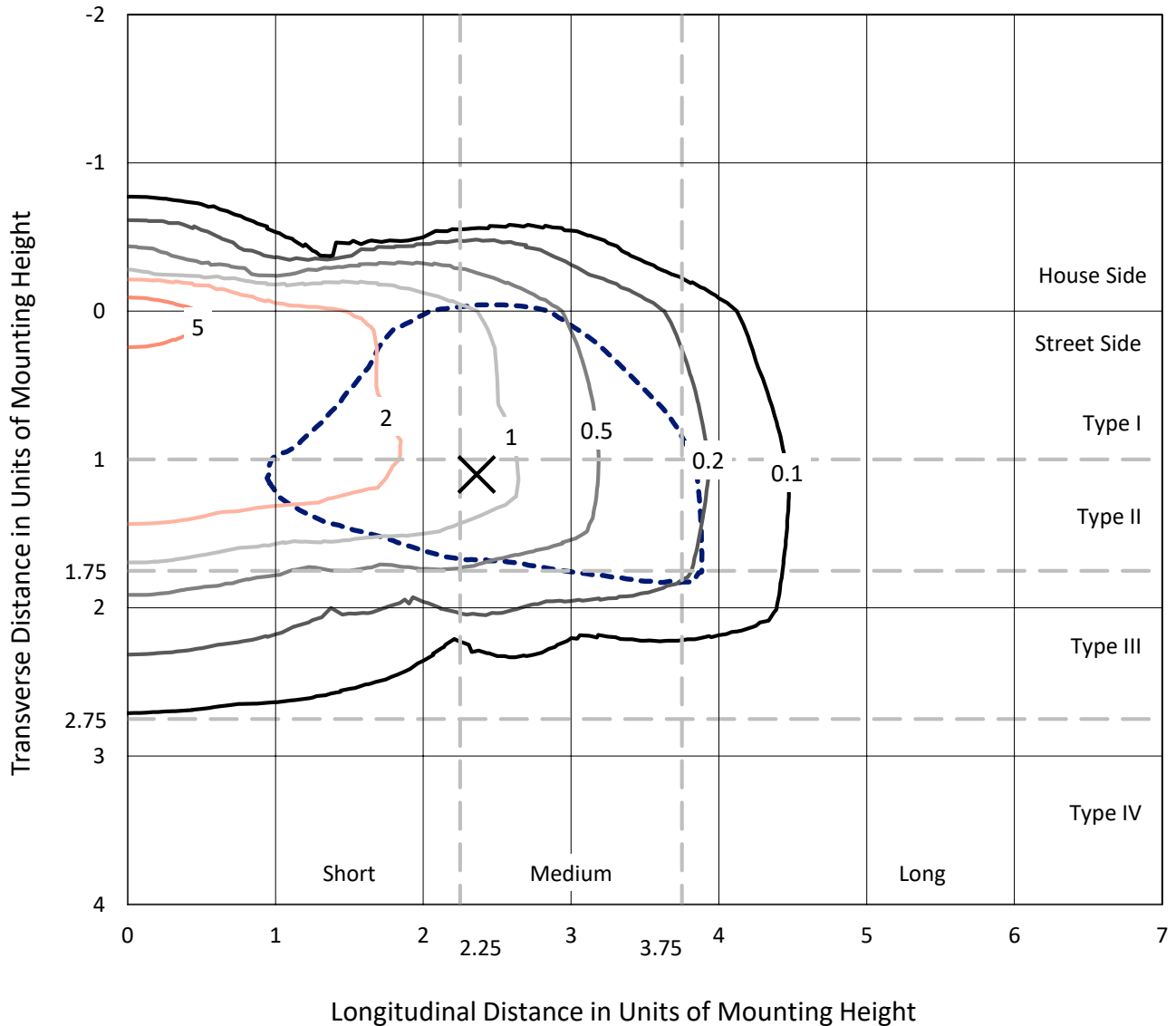
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

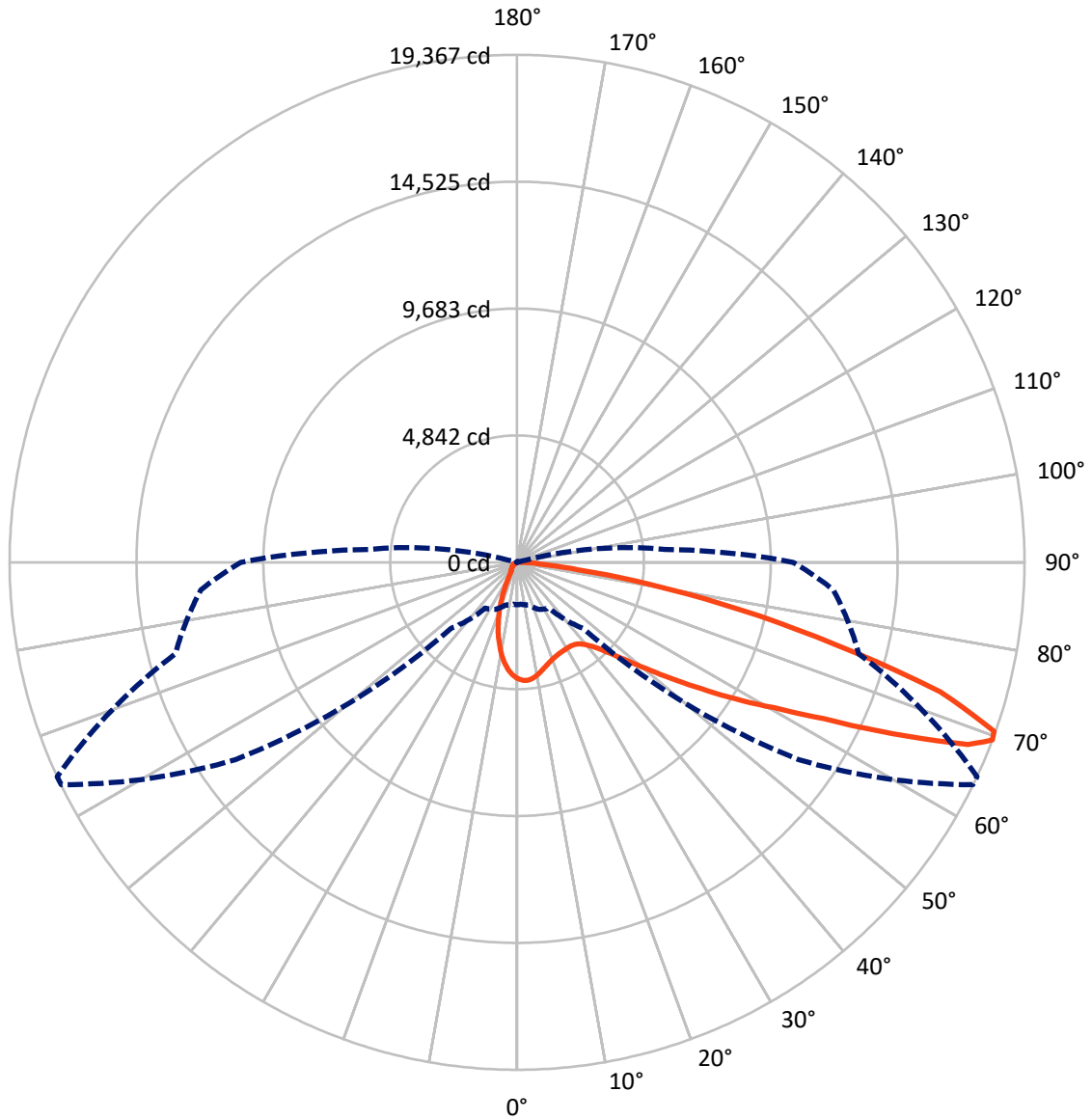
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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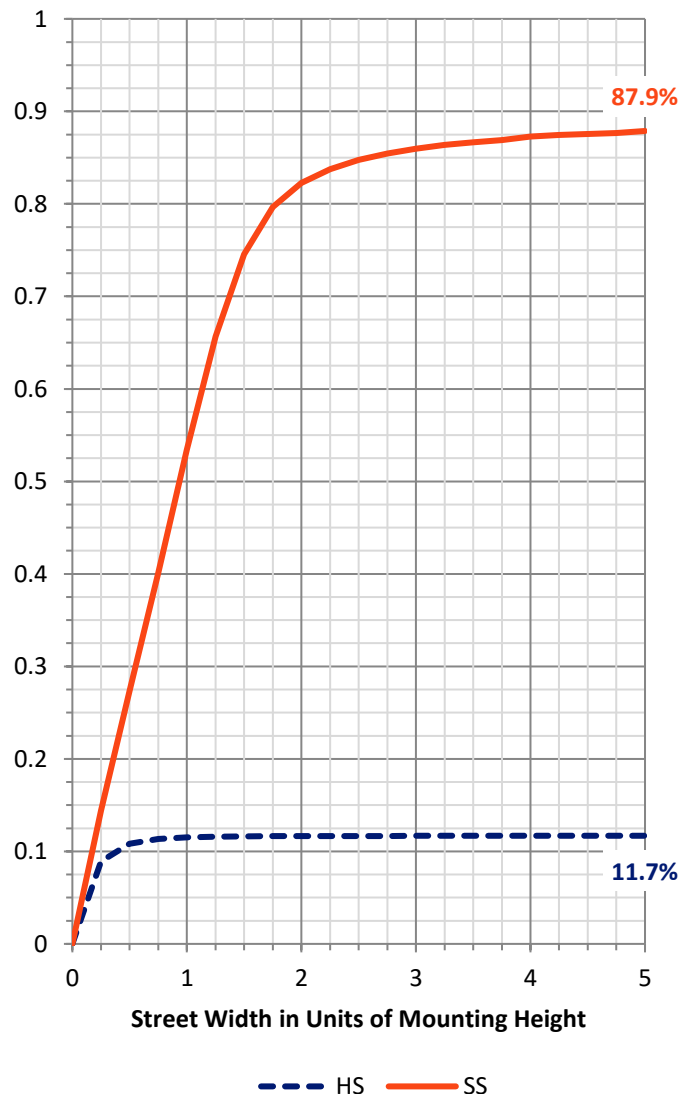
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2071.1	0.0	2071.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15498.9	0.0	15498.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	17570.0	0.0	17570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	2.1
10°-20°	812.7	4.6
20°-30°	1125.7	6.4
30°-40°	1569.5	8.9
40°-50°	2439.6	13.9
50°-60°	3916.5	22.3
60°-70°	4430.2	25.2
70°-80°	2601.9	14.8
80°-90°	302.7	1.7
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°	17570.0	100.0
0°-180°	17570.0	100.0

Coefficient of Utilization

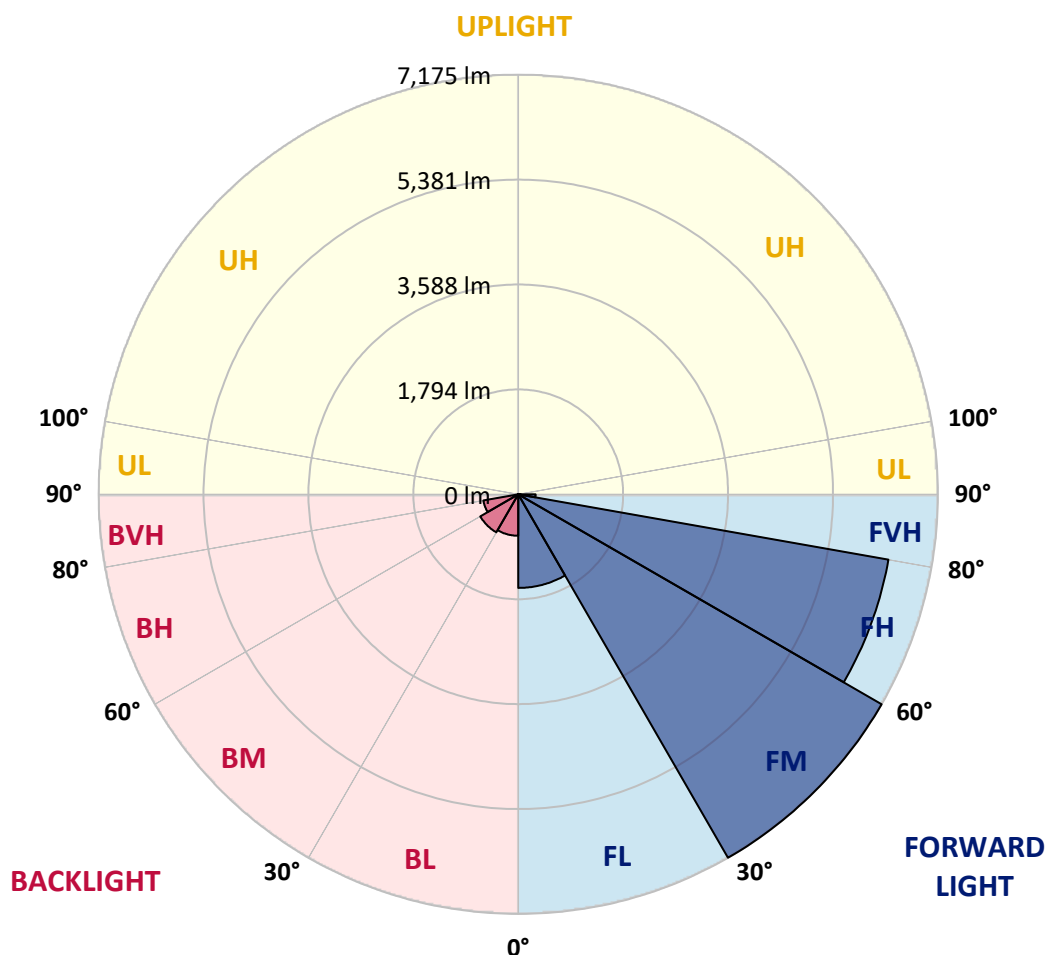


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.0	9.1			
FM (30°-60°)	7175.1	40.8			
FH (60°-80°)	6426.9	36.6			G3/7500
FVH (80°-90°)	295.9	1.7			G3/500
BL (0°-30°)	708.6	4.0	B2/1000		
BM (30°-60°)	750.5	4.3	B1/1000		
BH (60°-80°)	605.1	3.4	B2/1000		G2/1000
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0
2.5°	4479.4	4468.2	4477.1	4496.5	4506.1	4506.1	4513.6	4504.7	4507.6	4486.1	4454.8
5°	4199.1	4182.0	4206.5	4260.8	4327.7	4385.0	4469.7	4514.3	4518.8	4519.5	4483.1
7.5°	3897.2	3881.6	3918.1	3982.0	4068.2	4174.6	4322.5	4451.9	4459.3	4529.2	4502.4
10°	3651.9	3640.7	3683.1	3751.5	3852.6	3971.6	4153.0	4332.9	4354.5	4509.1	4499.4
12.5°	3457.1	3448.2	3488.3	3567.1	3670.5	3802.1	3991.7	4200.6	4229.6	4463.8	4484.6
15°	3315.1	3313.6	3347.1	3422.9	3537.4	3660.1	3854.1	4077.9	4111.4	4414.7	4482.3
17.5°	3240.8	3243.0	3267.5	3332.2	3430.3	3552.3	3738.1	3974.6	4011.0	4370.8	4493.5
20°	3233.3	3235.6	3248.9	3285.4	3364.9	3472.7	3643.7	3887.6	3925.5	4338.1	4511.3
22.5°	3298.8	3297.3	3301.0	3297.3	3341.9	3423.7	3581.3	3820.7	3864.5	4316.6	4525.5
25°	3424.4	3422.2	3420.7	3393.2	3363.4	3407.3	3555.2	3782.7	3824.4	4300.9	4533.6
27.5°	3599.1	3597.6	3595.4	3550.0	3460.8	3433.3	3558.2	3768.6	3803.6	4288.3	4532.2
30°	3828.8	3839.3	3836.3	3773.1	3634.1	3512.9	3589.4	3761.2	3791.7	4263.8	4516.5
32.5°	4098.7	4119.5	4135.9	4068.2	3894.3	3670.5	3661.6	3769.4	3791.7	4245.2	4488.3
35°	4379.0	4405.8	4466.0	4442.2	4213.2	3907.6	3785.7	3818.4	3837.0	4255.6	4474.9
37.5°	4654.8	4686.8	4817.6	4886.8	4631.0	4221.4	3979.0	3939.6	3949.3	4318.8	4489.8
40°	4975.3	5023.6	5222.1	5333.6	5129.9	4641.4	4268.2	4147.8	4151.5	4457.8	4558.9
42.5°	5396.1	5445.9	5660.7	5835.5	5692.0	5172.3	4660.8	4466.0	4462.3	4718.0	4721.7
45°	5909.1	5961.1	6183.4	6377.4	6312.8	5801.3	5163.4	4930.7	4926.2	5128.4	5030.3
47.5°	6490.4	6541.7	6740.2	6940.2	7010.1	6535.8	5803.5	5564.8	5554.4	5698.7	5506.8
50°	6989.3	7022.8	7205.7	7474.8	7790.0	7438.4	6599.7	6370.0	6358.9	6456.2	6206.4
52.5°	7170.7	7190.0	7375.9	7752.8	8539.4	8660.6	7645.8	7349.9	7341.7	7384.1	7138.0
55°	6803.4	6838.4	7066.6	7625.7	8945.4	10042.0	8966.2	8563.2	8501.5	8410.1	8111.9
57.5°	5802.7	5858.5	6103.8	6847.3	8755.8	11137.8	10906.6	9935.7	9845.0	9285.9	8903.7
60°	4347.8	4416.2	4619.9	5422.1	7743.9	11528.2	13027.0	11465.0	11260.5	9983.2	9631.6
62.5°	2983.5	3017.7	3156.0	3678.7	5703.1	10888.8	14800.9	13513.2	13140.0	10741.6	10418.9
65°	2278.7	2290.6	2347.1	2527.0	3396.1	8845.0	15506.4	16215.7	15764.4	11648.6	11236.0
67.5°	1836.4	1826.7	1904.8	2162.0	2274.3	5396.1	14683.4	18772.5	18561.3	12861.2	12058.3
69°	1619.3	1605.9	1685.4	1984.3	2136.0	3567.1	13126.6	19353.1	19366.5	13501.3	12114.8
70°	1457.2	1466.1	1544.9	1878.7	2089.1	2799.9	11639.7	19205.2	19310.7	13740.7	11775.7
72.5°	973.2	997.0	1155.3	1559.8	2008.8	2118.9	7028.0	16480.4	16886.3	13201.7	10102.9
75°	548.7	566.5	754.6	1176.2	1892.9	2017.8	3712.1	12141.5	12534.1	11039.7	7790.8
77.5°	269.1	278.8	426.7	759.1	1582.8	1922.6	2105.5	8247.3	8695.6	7205.7	4406.5
80°	113.8	119.0	213.4	468.4	1131.6	1834.9	1563.5	5075.6	5131.4	2822.9	1173.9
82.5°	43.9	45.4	90.0	292.2	718.9	1430.4	1307.8	2406.6	2348.6	531.6	267.6
85°	5.2	5.9	32.7	175.5	400.0	736.0	1062.4	1037.1	959.8	105.6	137.5
87.5°	0.0	0.0	2.2	53.5	119.0	345.0	552.4	430.5	388.1	34.2	71.4
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°	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0
2.5°	4428.8	4421.4	4381.2	4323.2	4268.2	4199.8	4134.4	4095.0	4063.8	4043.0	4067.5
5°	4440.7	4408.0	4286.1	4129.9	3976.8	3804.3	3643.7	3507.7	3454.1	3394.7	3421.4
7.5°	4437.0	4375.3	4156.0	3877.9	3596.9	3306.2	3031.1	2819.2	2709.2	2601.4	2628.9
10°	4418.4	4314.3	3982.0	3570.1	3149.3	2731.5	2341.2	2044.5	1878.7	1728.6	1750.1
12.5°	4377.5	4232.5	3776.8	3217.7	2654.9	2104.0	1646.8	1266.9	1063.2	973.2	984.3
15°	4353.0	4153.0	3559.7	2860.9	2127.1	1465.4	1006.7	748.7	655.7	626.0	629.7
17.5°	4341.1	4076.4	3335.2	2452.7	1587.3	933.0	650.5	574.0	553.9	548.7	550.2
20°	4329.2	3999.1	3104.0	2049.0	1093.6	627.5	534.6	512.2	504.8	498.1	499.6
22.5°	4309.1	3924.7	2855.6	1640.1	737.5	509.3	481.8	460.2	444.6	436.4	437.9
25°	4284.6	3846.7	2602.1	1221.5	538.3	454.3	428.2	397.8	379.2	364.3	365.0
27.5°	4245.2	3750.8	2340.4	889.2	452.0	406.7	371.7	338.3	307.1	290.0	290.0
30°	4190.2	3642.2	2049.7	636.4	405.2	359.8	317.5	275.8	242.4	226.8	225.3
32.5°	4129.2	3529.2	1756.1	482.5	368.0	316.0	267.6	223.8	194.0	181.4	180.7
35°	4077.2	3407.3	1463.1	404.4	330.8	273.6	220.8	183.6	159.8	149.4	148.7
37.5°	4043.7	3285.4	1177.6	361.3	297.4	234.2	185.1	151.7	134.6	126.4	125.6
40°	4038.5	3194.7	916.7	328.6	266.2	199.2	154.6	128.6	113.0	104.1	103.3
42.5°	4106.2	3142.6	703.3	301.1	234.2	168.8	131.6	110.0	93.7	84.8	84.0
45°	4283.8	3159.0	541.2	276.6	202.2	142.7	111.5	91.4	76.6	69.9	68.4
47.5°	4608.0	3272.0	430.5	252.0	171.7	121.2	95.2	75.8	63.2	56.5	55.8
50°	5184.9	3537.4	359.8	225.3	143.5	103.3	78.8	61.7	51.3	45.4	44.6
52.5°	5950.7	4010.2	321.2	199.2	119.0	87.7	64.7	49.1	40.1	35.7	34.9
55°	6795.3	4582.7	295.9	171.0	97.4	72.9	51.3	38.7	31.2	27.5	26.0
57.5°	7619.8	5078.6	272.1	143.5	81.0	59.5	40.9	30.5	24.5	20.8	20.1
60°	8377.4	5534.3	244.6	115.2	66.2	46.8	32.0	23.8	19.3	15.6	15.6
62.5°	9188.5	5886.8	206.7	90.0	54.3	35.7	26.0	21.6	15.6	13.4	12.6
65°	10047.9	6148.5	162.1	69.9	42.4	26.8	21.6	22.3	12.6	9.7	8.9
67.5°	10682.8	6096.4	119.7	55.0	32.7	20.8	20.8	23.8	11.2	7.4	6.7
69°	10543.1	5673.4	100.4	47.6	28.3	17.8	19.3	23.8	10.4	6.7	5.9
70°	10137.9	5205.0	88.5	42.4	25.3	16.4	18.6	23.0	9.7	6.7	5.9
72.5°	8442.8	3920.3	69.1	32.0	20.1	13.4	15.6	20.1	9.7	6.7	5.2
75°	6350.7	2509.2	52.8	23.0	14.9	10.4	11.9	14.9	9.7	5.9	5.2
77.5°	3455.6	904.8	37.9	15.6	10.4	8.2	8.2	11.2	8.9	4.5	3.0
80°	888.4	227.5	23.8	10.4	8.2	5.9	5.2	7.4	5.2	0.7	0.0
82.5°	219.3	51.3	12.6	7.4	5.9	2.2	2.2	3.7	2.2	0.0	0.0
85°	120.4	25.3	8.2	5.2	3.0	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	61.7	7.4	2.2	1.5	0.7	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)