

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: P323177

Luminaire Tested: **GAN-SA3D-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323177
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-SA3D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 17868 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

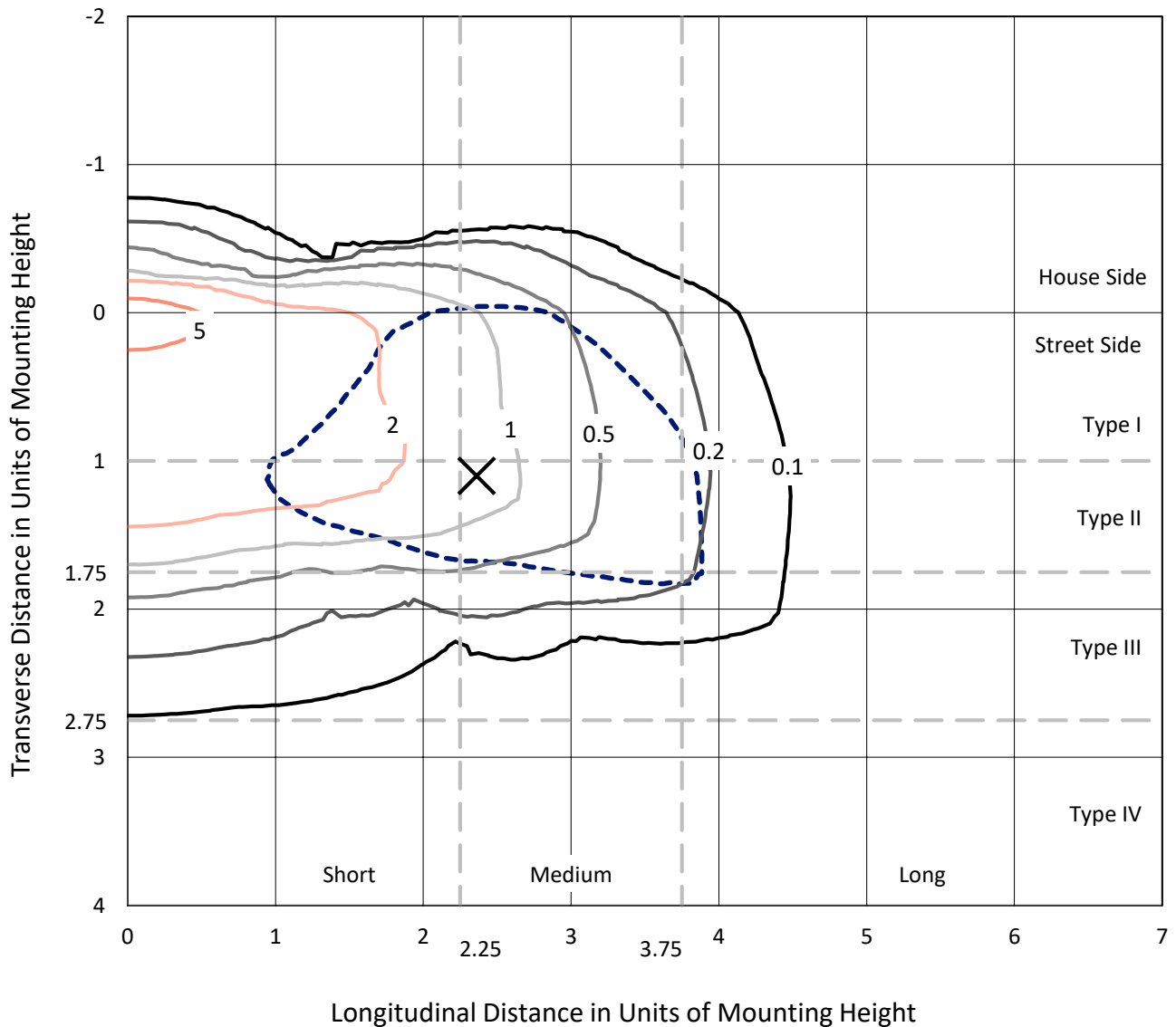
Input Watts (W): 191
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

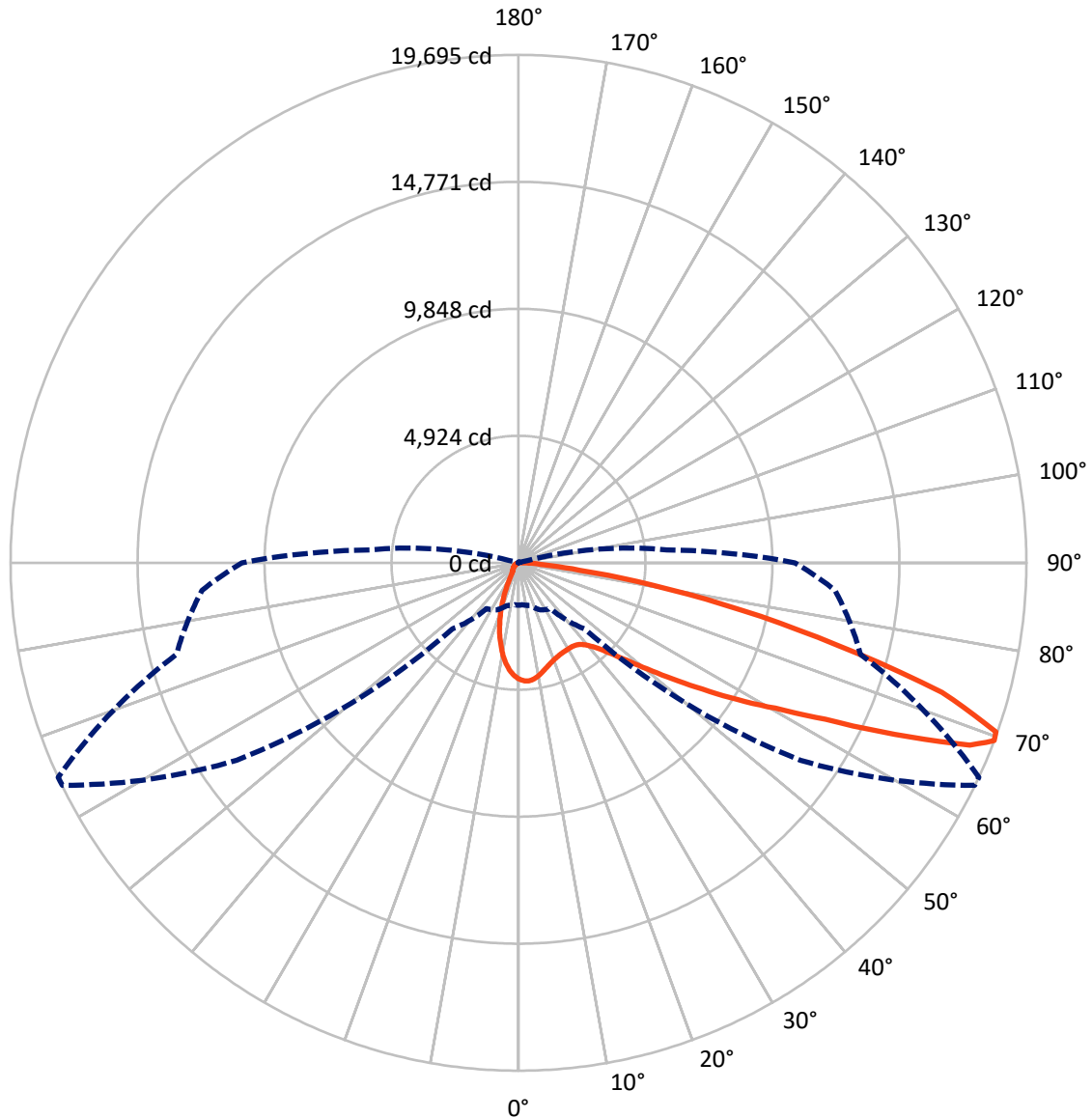
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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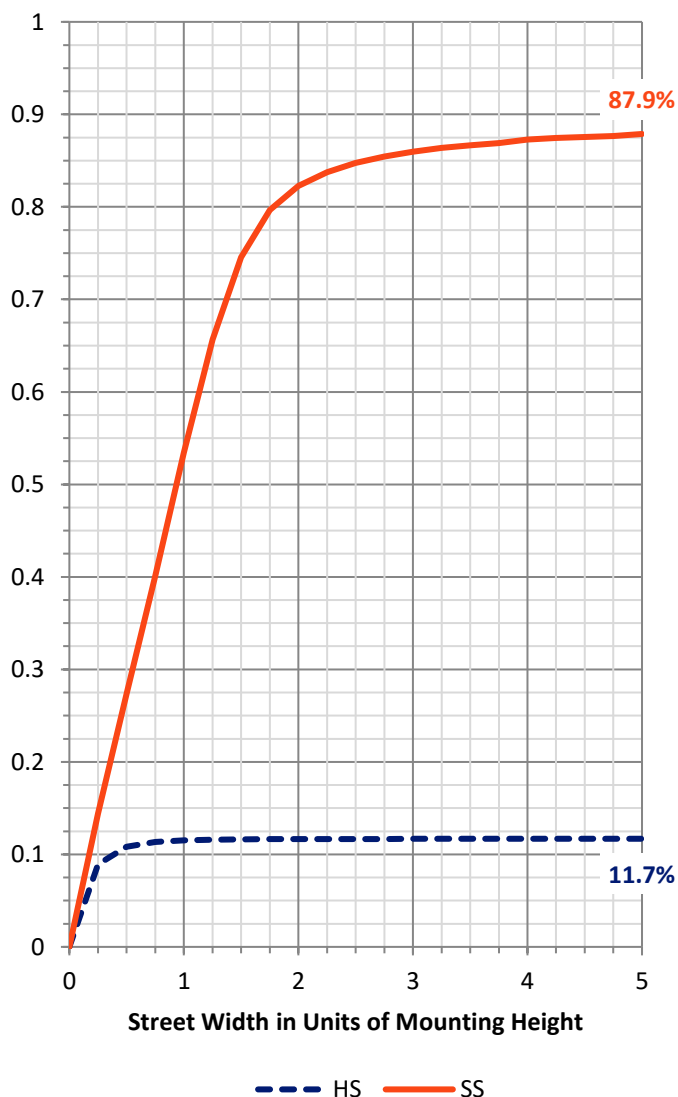
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2106.2	0.0	2106.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15761.8	0.0	15761.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	17868.0	0.0	17868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.6	2.1
10°-20°	826.5	4.6
20°-30°	1144.8	6.4
30°-40°	1596.2	8.9
40°-50°	2481.0	13.9
50°-60°	3982.9	22.3
60°-70°	4505.3	25.2
70°-80°	2646.0	14.8
80°-90°	307.8	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°	17868.0	100.0
0°-180°	17868.0	100.0

Coefficient of Utilization

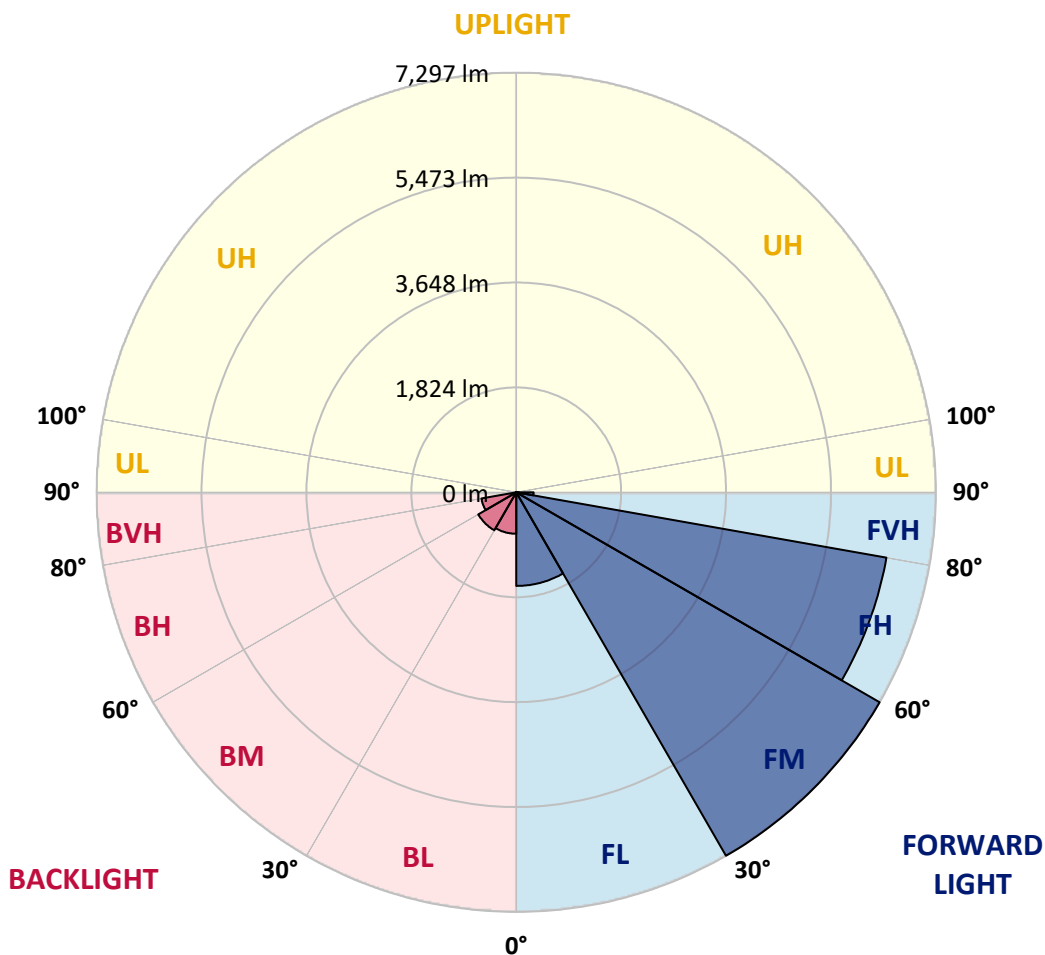


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.2	9.1			
FM (30°-60°)	7296.8	40.8			
FH (60°-80°)	6535.9	36.6			G3/7500
FVH (80°-90°)	300.9	1.7			G3/500
BL (0°-30°)	720.7	4.0	B2/1000		
BM (30°-60°)	763.2	4.3	B1/1000		
BH (60°-80°)	615.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3
2.5°	4555.3	4544.0	4553.1	4572.7	4582.6	4582.6	4590.1	4581.1	4584.1	4562.2	4530.4
5°	4270.3	4252.9	4277.9	4333.1	4401.1	4459.3	4545.5	4590.9	4595.4	4596.2	4559.1
7.5°	3963.3	3947.5	3984.5	4049.5	4137.2	4245.4	4395.8	4527.4	4534.9	4606.0	4578.8
10°	3713.8	3702.5	3745.6	3815.2	3918.0	4038.9	4223.4	4406.4	4428.3	4585.6	4575.8
12.5°	3515.7	3506.7	3547.5	3627.6	3732.7	3866.6	4059.4	4271.8	4301.3	4539.5	4560.6
15°	3371.3	3369.8	3403.8	3481.0	3597.4	3722.2	3919.5	4147.1	4181.1	4489.6	4558.4
17.5°	3295.7	3298.0	3322.9	3388.7	3488.5	3612.5	3801.5	4042.0	4079.0	4445.0	4569.7
20°	3288.2	3290.4	3304.0	3341.1	3422.0	3531.6	3705.5	3953.5	3992.1	4411.7	4587.9
22.5°	3354.7	3353.2	3357.0	3353.2	3398.6	3481.7	3642.0	3885.5	3930.1	4389.8	4602.2
25°	3482.5	3480.2	3478.7	3450.7	3420.5	3465.1	3615.5	3846.9	3889.2	4373.9	4610.5
27.5°	3660.2	3658.6	3656.4	3610.3	3519.5	3491.6	3618.6	3832.5	3868.1	4361.0	4609.0
30°	3893.8	3904.4	3901.3	3837.1	3695.7	3572.5	3650.3	3825.0	3856.0	4336.1	4593.2
32.5°	4168.2	4189.4	4206.0	4137.2	3960.3	3732.7	3723.7	3833.3	3856.0	4317.2	4564.4
35°	4453.3	4480.5	4541.7	4517.5	4284.7	3973.9	3849.9	3883.2	3902.1	4327.8	4550.8
37.5°	4733.8	4766.3	4899.4	4969.7	4709.6	4293.0	4046.5	4006.4	4016.3	4392.0	4565.9
40°	5059.6	5108.8	5310.7	5424.1	5216.9	4720.2	4340.6	4218.1	4221.9	4533.4	4636.2
42.5°	5487.6	5538.2	5756.7	5934.4	5788.5	5260.0	4739.8	4541.7	4538.0	4798.0	4801.8
45°	6009.3	6062.2	6288.3	6485.6	6419.8	5899.6	5250.9	5014.3	5009.7	5215.4	5115.6
47.5°	6600.5	6652.7	6854.6	7058.0	7129.0	6646.6	5901.9	5659.2	5648.6	5795.3	5600.2
50°	7107.9	7141.9	7327.9	7601.6	7922.1	7564.5	6711.7	6478.0	6466.7	6565.7	6311.7
52.5°	7292.3	7312.0	7501.0	7884.3	8684.3	8807.5	7775.5	7474.5	7466.2	7509.3	7259.1
55°	6918.8	6954.4	7186.5	7755.1	9097.1	10212.3	9118.3	8708.5	8645.7	8552.7	8249.5
57.5°	5901.2	5957.9	6207.4	6963.4	8904.3	11326.7	11091.6	10104.2	10011.9	9443.4	9054.7
60°	4421.5	4491.1	4698.2	5514.0	7875.3	11723.7	13247.9	11659.4	11451.5	10152.6	9794.9
62.5°	3034.1	3068.9	3209.5	3741.1	5799.8	11073.5	15051.9	13742.4	13362.9	10923.8	10595.6
65°	2317.4	2329.5	2386.9	2569.9	3453.7	8995.0	15769.4	16490.7	16031.8	11846.2	11426.5
67.5°	1867.5	1857.7	1937.1	2198.7	2312.8	5487.6	14932.5	19090.9	18876.1	13079.3	12262.8
69°	1646.7	1633.1	1714.0	2018.0	2172.2	3627.6	13349.2	19681.4	19695.0	13730.3	12320.2
70°	1481.9	1491.0	1571.1	1910.6	2124.6	2847.4	11837.1	19530.9	19638.3	13973.8	11975.5
72.5°	989.7	1013.9	1174.9	1586.2	2042.9	2154.8	7147.2	16759.9	17172.7	13425.6	10274.3
75°	558.0	576.1	767.4	1196.1	1925.0	2052.0	3775.1	12347.4	12746.7	11226.9	7922.9
77.5°	273.7	283.5	434.0	772.0	1609.7	1955.2	2141.2	8387.1	8843.0	7327.9	4481.3
80°	115.7	121.0	217.0	476.3	1150.7	1866.0	1590.0	5161.7	5218.4	2870.8	1193.8
82.5°	44.6	46.1	91.5	297.1	731.1	1454.7	1329.9	2447.4	2388.4	540.6	272.2
85°	5.3	6.0	33.3	178.4	406.8	748.5	1080.4	1054.7	976.1	107.4	139.9
87.5°	0.0	0.0	2.3	54.4	121.0	350.8	561.8	437.8	394.7	34.8	72.6
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°	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3	4515.3
2.5°	4503.9	4496.4	4455.5	4396.6	4340.6	4271.1	4204.5	4164.5	4132.7	4111.5	4136.5
5°	4516.0	4482.8	4358.8	4200.0	4044.2	3868.8	3705.5	3567.2	3512.7	3452.2	3479.5
7.5°	4512.3	4449.5	4226.5	3943.7	3657.9	3362.3	3082.5	2867.0	2755.1	2645.5	2673.5
10°	4493.3	4387.5	4049.5	3630.7	3202.7	2777.8	2380.9	2079.2	1910.6	1757.9	1779.8
12.5°	4451.8	4304.3	3840.9	3272.3	2699.9	2139.7	1674.7	1288.4	1081.2	989.7	1001.0
15°	4426.8	4223.4	3620.1	2909.4	2163.1	1490.2	1023.7	761.4	666.9	636.6	640.4
17.5°	4414.7	4145.6	3391.7	2494.3	1614.2	948.9	661.6	583.7	563.3	558.0	559.5
20°	4402.6	4066.9	3156.6	2083.7	1112.2	638.1	543.6	520.9	513.4	506.6	508.1
22.5°	4382.2	3991.3	2904.1	1667.9	750.0	517.9	489.9	468.0	452.1	443.8	445.3
25°	4357.3	3911.9	2646.3	1242.2	547.4	462.0	435.5	404.5	385.6	370.5	371.2
27.5°	4317.2	3814.4	2380.1	904.3	459.7	413.6	378.0	344.0	312.3	294.9	294.9
30°	4261.2	3704.0	2084.5	647.2	412.1	365.9	322.8	280.5	246.5	230.6	229.1
32.5°	4199.2	3589.1	1785.8	490.7	374.3	321.3	272.2	227.6	197.3	184.5	183.7
35°	4146.3	3465.1	1488.0	411.3	336.5	278.2	224.6	186.8	162.6	152.0	151.2
37.5°	4112.3	3341.1	1197.6	367.5	302.4	238.2	188.3	154.2	136.8	128.5	127.8
40°	4107.0	3248.9	932.2	334.2	270.7	202.6	157.3	130.8	114.9	105.9	105.1
42.5°	4175.8	3195.9	715.2	306.2	238.2	171.6	133.8	111.9	95.3	86.2	85.4
45°	4356.5	3212.6	550.4	281.3	205.7	145.2	113.4	93.0	77.9	71.1	69.6
47.5°	4686.1	3327.5	437.8	256.3	174.7	123.2	96.8	77.1	64.3	57.5	56.7
50°	5272.9	3597.4	365.9	229.1	145.9	105.1	80.1	62.8	52.2	46.1	45.4
52.5°	6051.6	4078.3	326.6	202.6	121.0	89.2	65.8	49.9	40.8	36.3	35.5
55°	6910.5	4660.4	300.9	173.9	99.0	74.1	52.2	39.3	31.8	28.0	26.5
57.5°	7749.0	5164.7	276.7	145.9	82.4	60.5	41.6	31.0	25.0	21.2	20.4
60°	8519.4	5628.2	248.7	117.2	67.3	47.6	32.5	24.2	19.7	15.9	15.9
62.5°	9344.3	5986.6	210.2	91.5	55.2	36.3	26.5	21.9	15.9	13.6	12.9
65°	10218.3	6252.7	164.8	71.1	43.1	27.2	21.9	22.7	12.9	9.8	9.1
67.5°	10864.0	6199.8	121.7	55.9	33.3	21.2	21.2	24.2	11.3	7.6	6.8
69°	10721.9	5769.6	102.1	48.4	28.7	18.1	19.7	24.2	10.6	6.8	6.0
70°	10309.8	5293.3	90.0	43.1	25.7	16.6	18.9	23.4	9.8	6.8	6.0
72.5°	8586.0	3986.8	70.3	32.5	20.4	13.6	15.9	20.4	9.8	6.8	5.3
75°	6458.4	2551.8	53.7	23.4	15.1	10.6	12.1	15.1	9.8	6.0	5.3
77.5°	3514.2	920.1	38.6	15.9	10.6	8.3	8.3	11.3	9.1	4.5	3.0
80°	903.5	231.4	24.2	10.6	8.3	6.0	5.3	7.6	5.3	0.8	0.0
82.5°	223.0	52.2	12.9	7.6	6.0	2.3	2.3	3.8	2.3	0.0	0.0
85°	122.5	25.7	8.3	5.3	3.0	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	62.8	7.6	2.3	1.5	0.8	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)