

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: P324789

Luminaire Tested: **GAN-SA5A-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19067 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

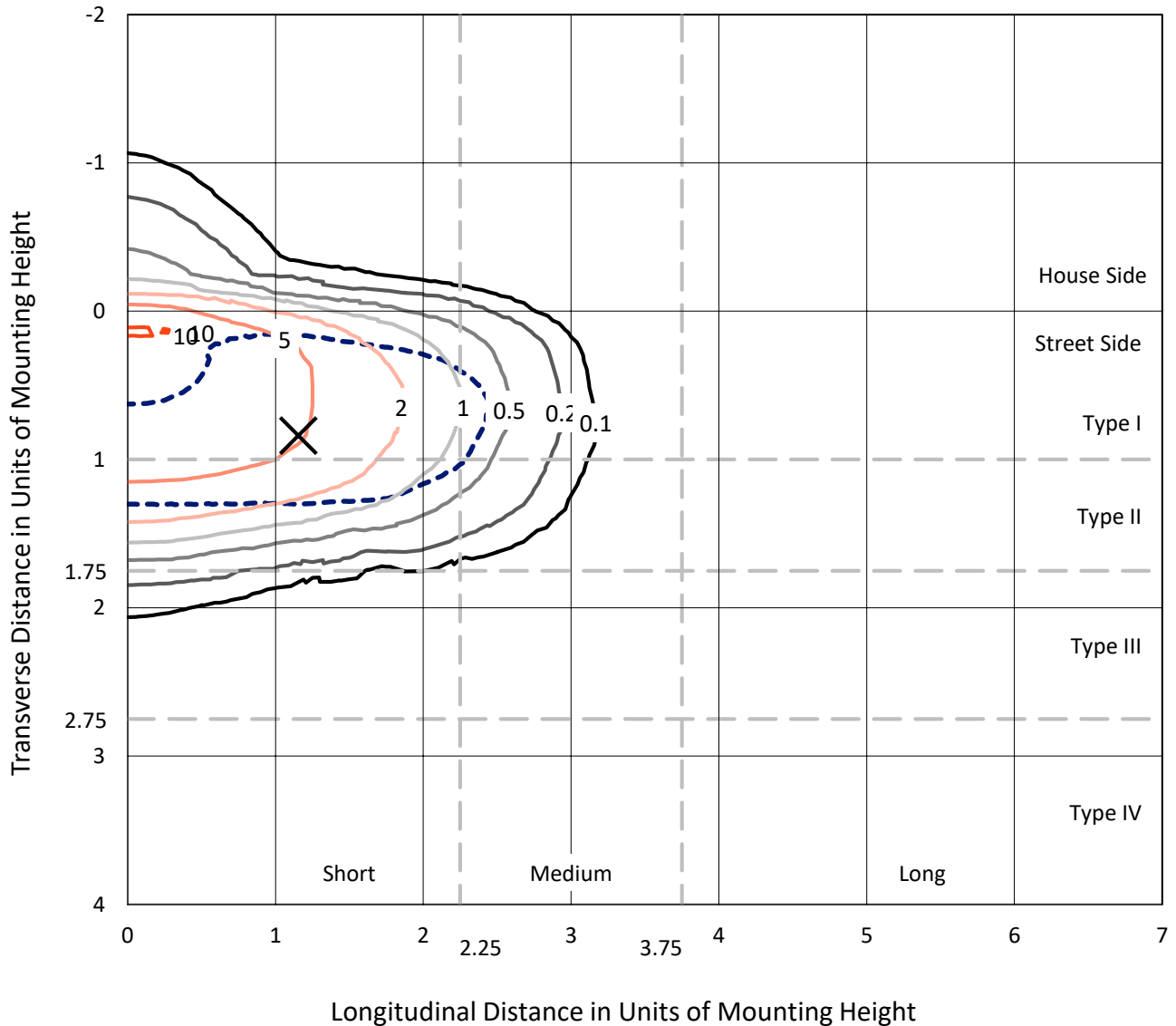
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

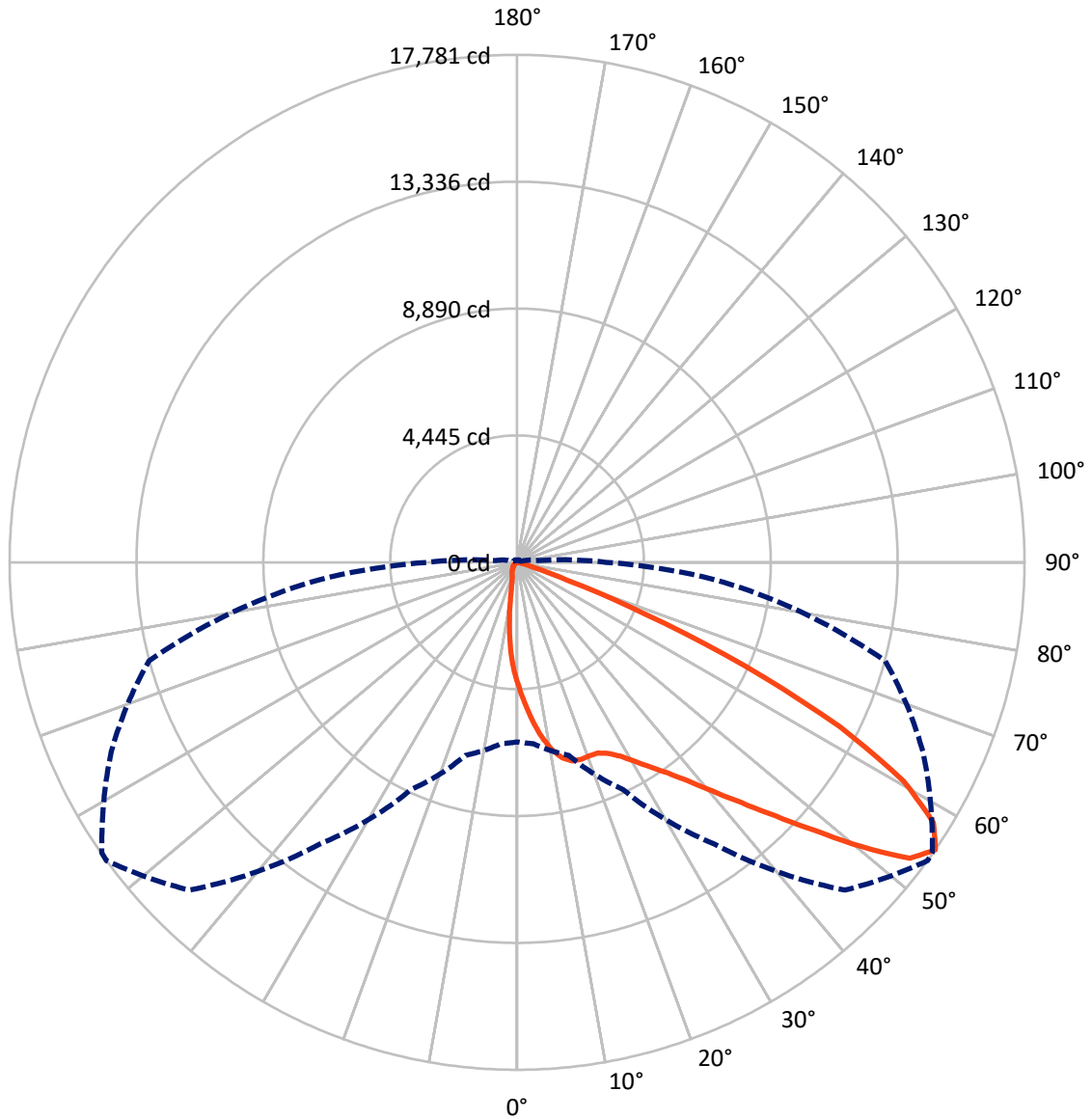
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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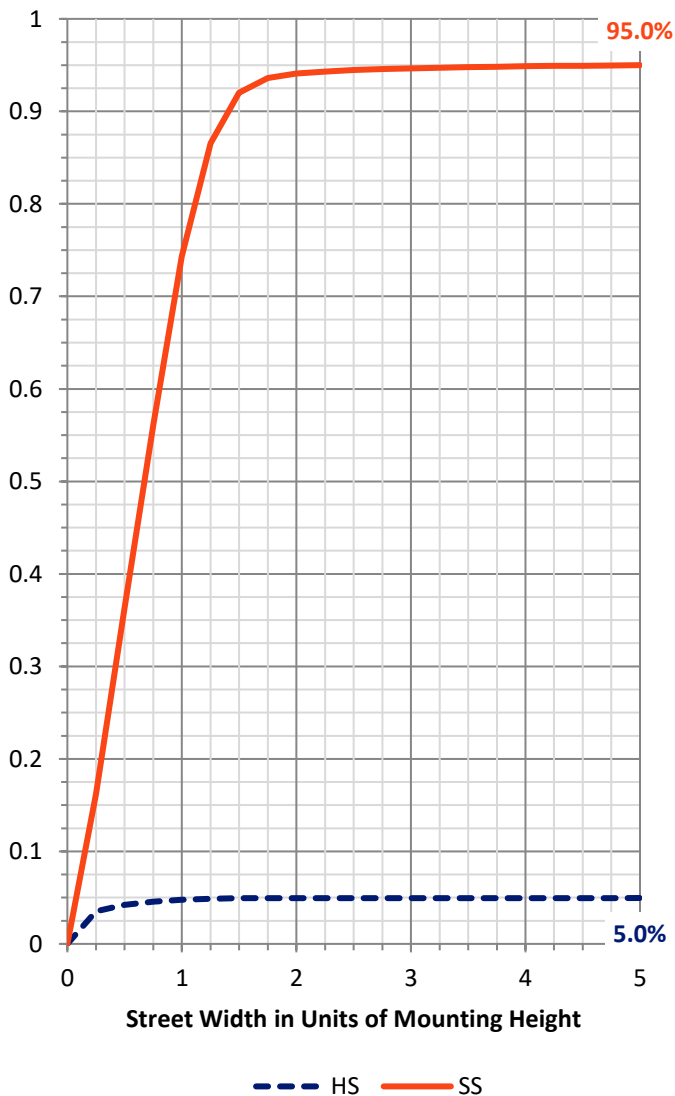
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	951.3	0.0	951.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18115.7	0.0	18115.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	19067.0	0.0	19067.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	2.1
10°-20°	1078.5	5.7
20°-30°	1841.3	9.7
30°-40°	2955.0	15.5
40°-50°	4722.1	24.8
50°-60°	5059.8	26.5
60°-70°	2597.9	13.6
70°-80°	393.5	2.1
80°-90°	25.6	0.1
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°	19067.0	100.0
0°-180°	19067.0	100.0



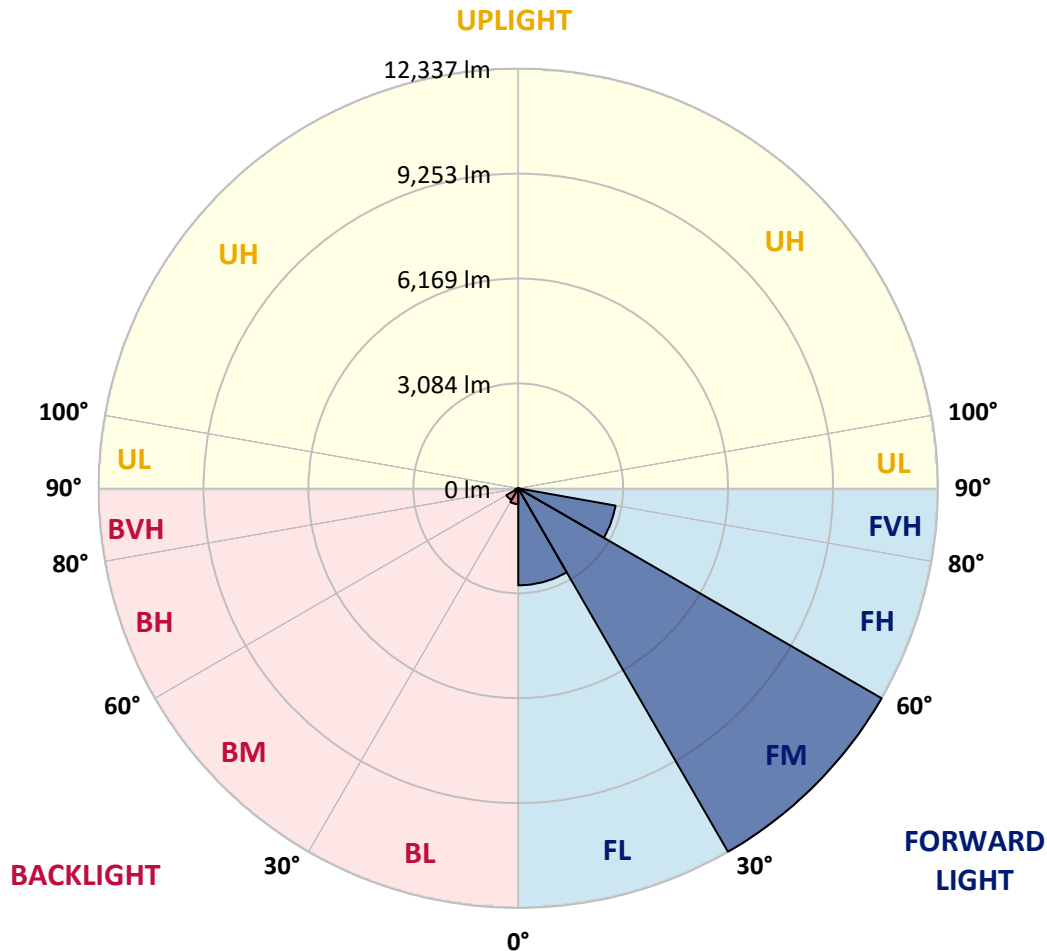
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2850.2	14.9			
FM (30°-60°)	12337.2	64.7			
FH (60°-80°)	2903.7	15.2			G2/5000
FVH (80°-90°)	24.6	0.1			G1/100
BL (0°-30°)	462.8	2.4	B1/500		
BM (30°-60°)	399.8	2.1	B1/1000		
BH (60°-80°)	87.7	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2
2.5°	5358.8	5278.9	5281.4	5245.2	5112.6	5008.8	4901.0	4875.5	4707.5	4531.3	4361.6
5°	6285.1	6226.7	6212.7	6142.7	5958.2	5763.1	5554.0	5505.4	5176.8	4816.2	4461.3
7.5°	6761.1	6761.9	6750.4	6724.9	6609.6	6420.2	6164.9	6113.9	5666.8	5125.8	4565.0
10°	6622.7	6654.0	6718.3	6803.1	6891.2	6867.3	6675.4	6629.3	6143.5	5453.5	4680.3
12.5°	6300.0	6304.1	6375.7	6514.9	6768.5	7028.7	7032.0	7016.3	6598.9	5796.0	4807.1
15°	6139.4	6155.0	6181.4	6271.1	6511.6	6928.2	7226.3	7248.5	7016.3	6160.0	4942.2
17.5°	6244.8	6267.0	6244.8	6255.5	6394.7	6769.3	7260.1	7316.9	7381.1	6519.8	5069.8
20°	6530.5	6551.1	6511.6	6467.9	6495.1	6723.2	7236.2	7312.8	7666.8	6839.3	5176.8
22.5°	6915.9	6924.1	6864.0	6792.4	6772.6	6879.7	7256.0	7335.0	7895.7	7128.3	5244.3
25°	7339.9	7347.4	7272.4	7190.1	7143.1	7186.8	7418.2	7477.5	8097.5	7404.2	5283.0
27.5°	7801.9	7808.5	7714.6	7613.3	7559.0	7560.6	7685.8	7749.2	8312.4	7718.7	5314.3
30°	8290.2	8286.9	8200.4	8059.6	7990.4	7988.8	8071.1	8135.4	8623.7	8122.2	5357.2
32.5°	8838.6	8832.0	8709.3	8534.7	8456.5	8468.0	8541.3	8578.4	9009.8	8552.0	5433.7
35°	9560.7	9541.8	9356.5	9139.9	8995.8	8991.7	9053.5	9083.1	9502.2	9072.4	5561.4
37.5°	10497.7	10480.5	10229.3	9914.8	9712.2	9636.5	9709.7	9747.6	10204.6	9740.2	5766.4
40°	11421.6	11404.3	11255.3	10967.1	10655.0	10473.0	10530.7	10571.0	11081.6	10550.4	6024.9
42.5°	12058.9	12073.8	12125.6	12149.5	11857.2	11475.1	11501.5	11543.5	12003.0	11416.7	6320.6
45°	12226.9	12259.0	12552.2	13127.7	13237.3	12939.2	12663.3	12686.4	12939.2	12282.9	6616.2
47.5°	11722.2	11781.5	12347.1	13417.6	14344.8	14555.5	14033.5	14003.0	13837.5	12983.6	6826.1
50°	10575.1	10629.5	11362.3	12945.8	14680.7	16098.6	15675.4	15585.6	14625.5	13402.8	6900.2
52.5°	8915.1	8981.0	9576.3	11460.3	14047.5	16787.0	17230.0	17155.1	15203.6	13435.7	6912.6
55°	6295.8	6375.7	7005.6	8783.4	12040.8	16239.4	17780.9	17758.6	15683.6	13348.4	6938.9
57.5°	3538.2	3595.9	4275.2	5630.5	8818.8	14144.7	17205.3	17352.7	15973.5	13196.9	6978.5
60°	1571.1	1586.7	1938.3	2802.9	5162.8	10809.8	15557.6	15806.3	15724.8	12994.4	7045.2
62.5°	871.2	858.0	858.0	1165.1	2243.8	6691.9	12686.4	13097.3	14663.4	12754.7	7048.5
65°	682.6	670.3	634.9	639.8	854.7	2970.1	8785.0	9515.4	12647.7	12052.4	6811.3
67.5°	578.9	568.2	532.8	518.8	531.1	979.9	4826.9	5585.2	9596.9	10226.8	5899.8
70°	489.1	481.7	463.6	446.3	415.0	484.2	1846.9	2362.4	5913.8	6803.1	4027.3
72.5°	393.6	390.3	396.9	382.1	344.2	322.8	631.6	765.0	2656.3	3035.9	1659.2
75°	339.2	337.6	340.9	326.1	283.3	224.8	321.1	350.8	749.3	742.7	336.0
77.5°	220.7	223.1	282.4	275.8	243.7	149.9	166.3	179.5	227.3	170.4	102.1
80°	140.8	139.2	143.3	228.9	219.0	114.5	83.2	87.3	109.5	84.0	49.4
82.5°	85.6	84.0	93.9	107.0	110.3	79.9	51.1	51.9	68.3	54.3	26.3
85°	7.4	9.9	56.8	52.7	37.9	24.7	24.7	26.3	36.2	32.1	14.8
87.5°	0.0	0.0	9.9	14.8	8.2	9.1	9.1	9.9	14.0	14.0	7.4
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°	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2	4270.2
2.5°	4273.5	4187.9	4015.0	3848.7	3707.8	3572.0	3417.2	3264.0	3192.4	3163.6	3133.9
5°	4280.9	4104.7	3748.2	3389.2	3017.0	2681.9	2396.1	2103.0	1956.4	1892.2	1862.6
7.5°	4290.8	4022.4	3446.0	2843.3	2243.8	1789.3	1392.4	1137.1	1026.8	1009.5	966.7
10°	4292.5	3922.8	3095.2	2240.5	1504.4	1078.7	830.0	698.3	649.7	641.4	627.4
12.5°	4295.8	3805.0	2705.7	1659.2	1002.9	721.3	600.3	556.6	543.5	542.6	542.6
15°	4305.6	3681.5	2301.5	1195.6	720.5	571.5	527.0	509.7	504.8	507.2	506.4
17.5°	4305.6	3535.8	1904.6	890.9	582.2	513.8	489.1	477.6	475.9	478.4	479.2
20°	4274.4	3358.7	1540.6	693.3	516.3	476.8	454.5	443.8	439.7	441.4	442.2
22.5°	4199.4	3141.3	1244.2	573.9	472.6	443.0	419.1	402.7	396.1	396.9	396.9
25°	4082.5	2883.6	973.3	496.5	437.2	406.8	378.8	359.8	355.7	354.9	356.5
27.5°	3932.6	2598.7	774.8	437.2	395.2	366.4	338.4	322.8	319.5	320.3	321.1
30°	3785.2	2303.1	611.0	387.0	348.3	321.1	299.7	292.3	292.3	294.8	295.6
32.5°	3650.2	2019.0	483.3	343.4	306.3	281.6	269.3	268.4	272.6	274.2	275.0
35°	3534.1	1756.3	400.2	309.6	273.4	252.0	247.8	251.1	256.1	259.4	260.2
37.5°	3451.8	1521.7	350.0	281.6	247.8	230.6	229.7	236.3	242.9	250.3	252.0
40°	3417.2	1323.2	315.4	256.9	227.3	214.1	211.6	220.7	233.0	243.7	245.4
42.5°	3388.4	1161.0	285.7	233.0	210.8	191.9	191.0	202.6	217.4	228.1	230.6
45°	3363.7	1030.9	258.6	207.5	189.4	164.7	167.2	182.0	193.5	205.0	207.5
47.5°	3312.6	923.9	228.9	180.3	156.4	140.8	145.7	158.9	168.0	185.3	187.7
50°	3221.2	836.6	198.4	147.4	127.6	121.9	129.3	138.3	149.9	164.7	166.3
52.5°	3159.5	770.7	172.1	123.5	105.4	107.0	114.5	117.7	124.3	130.1	128.5
55°	3124.0	734.5	150.7	107.0	89.8	94.7	96.3	92.2	88.9	83.2	80.7
57.5°	3119.9	701.6	134.2	93.0	79.0	81.5	75.8	61.8	50.2	43.6	42.0
60°	3113.3	661.2	121.0	78.2	70.0	66.7	54.3	33.8	23.9	22.2	22.2
62.5°	3041.7	598.6	111.2	65.9	59.3	50.2	31.3	15.6	13.2	14.0	14.0
65°	2813.6	511.3	101.3	53.5	46.9	36.2	15.6	9.1	4.9	5.8	5.8
67.5°	2392.0	407.6	90.6	41.2	35.4	23.1	9.1	4.1	0.0	0.0	0.0
70°	1601.5	252.8	76.6	28.8	23.1	14.0	6.6	0.8	0.0	0.0	0.0
72.5°	614.3	136.7	61.8	17.3	14.8	9.9	4.1	0.0	0.0	0.0	0.0
75°	138.3	89.8	42.8	12.4	10.7	6.6	1.6	0.0	0.0	0.0	0.0
77.5°	52.7	65.0	24.7	8.2	7.4	4.1	0.0	0.0	0.0	0.0	0.0
80°	25.5	38.7	11.5	4.9	4.1	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	14.8	4.9	2.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.4	7.4	2.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.5	0.8	0.8	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)