

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: McGRAW-EDISON

Report Number: P527941

Luminaire Tested: **GALN-SA3A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9275 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

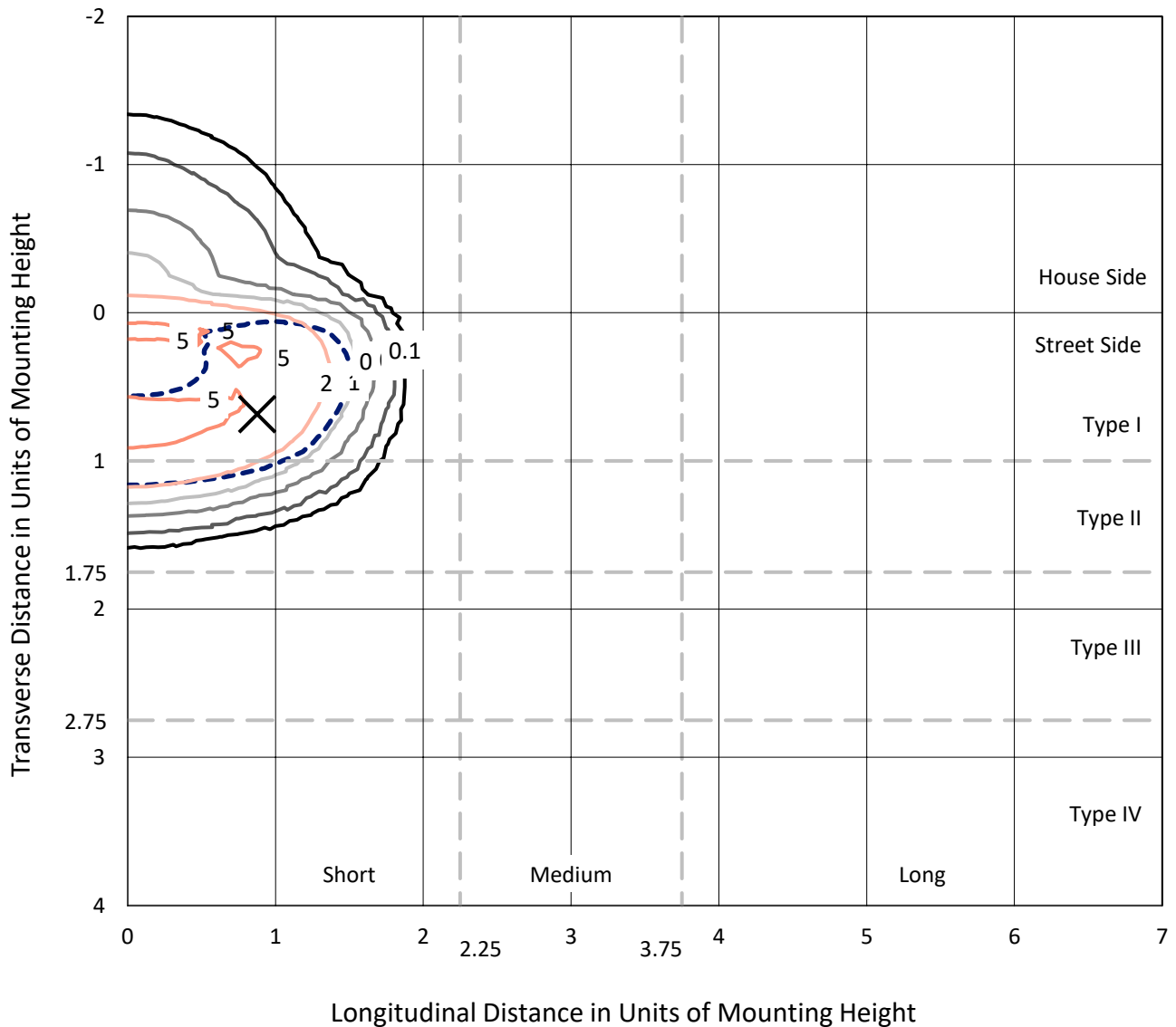
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

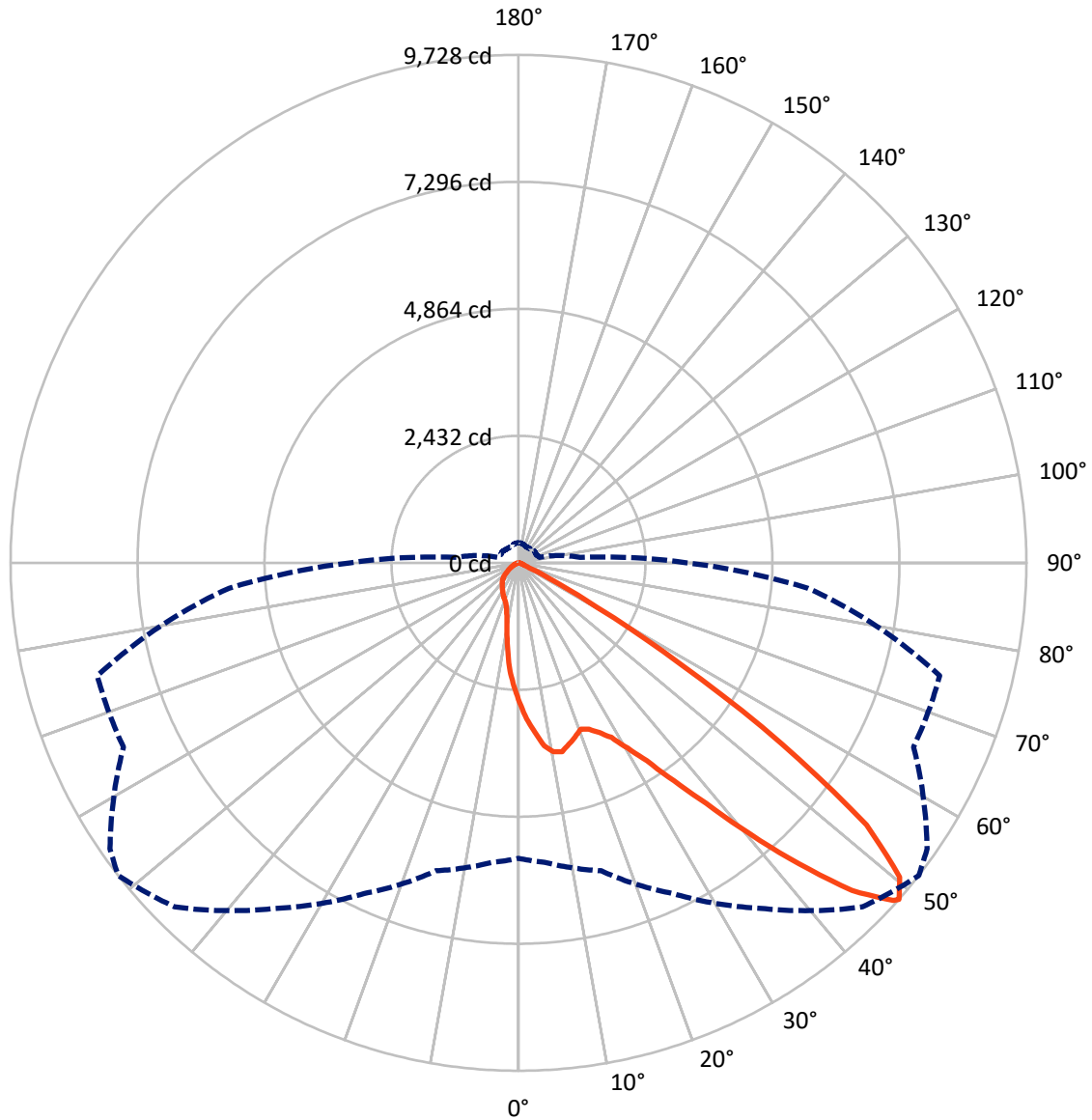
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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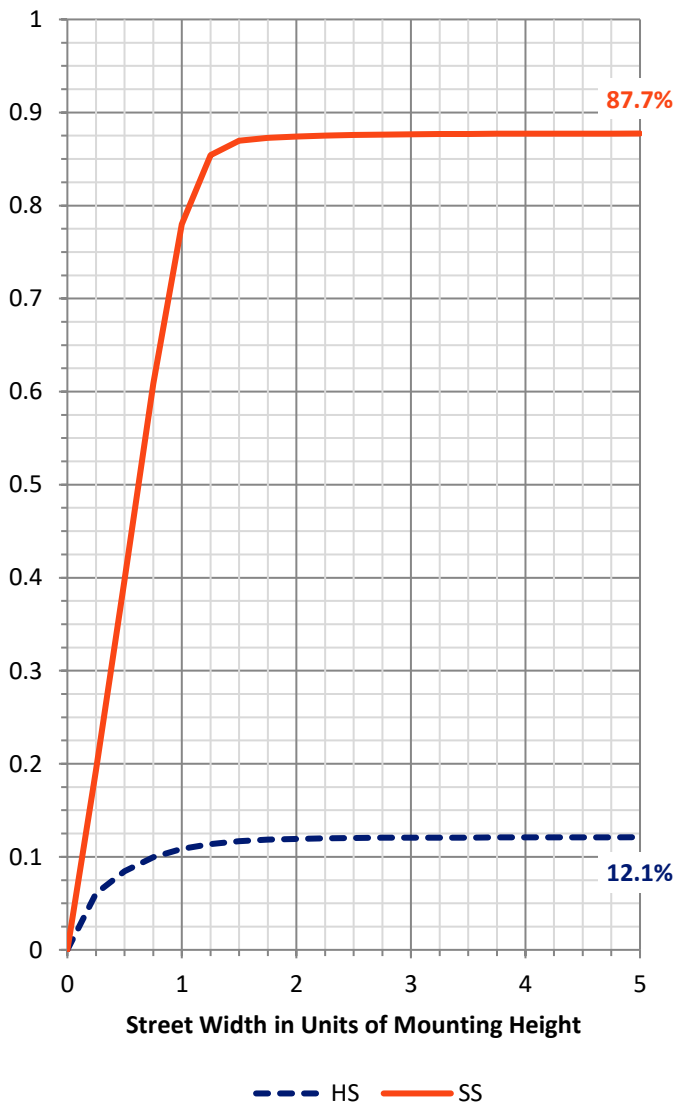
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1129.3	0.0	1129.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8145.7	0.0	8145.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	9275.0	0.0	9275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	2.6
10°-20°	640.7	6.9
20°-30°	1093.9	11.8
30°-40°	2014.4	21.7
40°-50°	3128.4	33.7
50°-60°	1882.8	20.3
60°-70°	217.8	2.3
70°-80°	42.1	0.5
80°-90°	9.8	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°	9275.0	100.0
0°-180°	9275.0	100.0

Coefficient of Utilization

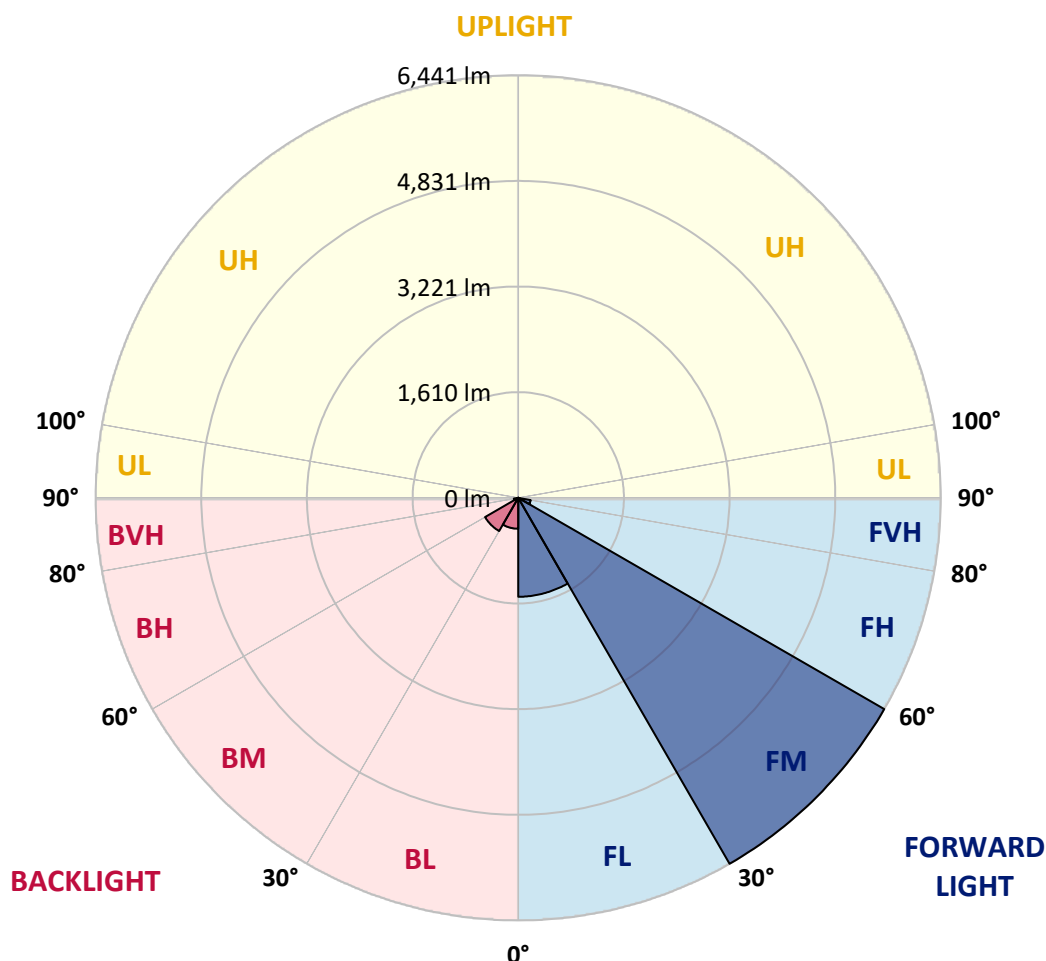


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.0	16.3			
FM (30°-60°)	6441.3	69.4			
FH (60°-80°)	191.8	2.1			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	471.7	5.1	B1/500		
BM (30°-60°)	584.3	6.3	B1/1000		
BH (60°-80°)	68.2	0.7	B0/110		G0/110
BVH (80°-90°)	5.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5
2.5°	3246.3	3172.0	3178.7	3130.1	3101.7	3055.7	2993.5	2981.3	2913.7	2821.8	2728.5
5°	3538.4	3520.8	3543.8	3473.5	3476.2	3400.5	3254.5	3257.2	3101.7	2951.6	2806.9
7.5°	3557.3	3516.8	3539.7	3601.9	3638.4	3624.9	3542.4	3470.8	3323.4	3103.0	2892.1
10°	3185.5	3262.6	3286.9	3389.7	3535.7	3689.8	3680.4	3684.4	3561.4	3273.4	2965.1
12.5°	2962.4	2911.0	2993.5	3055.7	3276.1	3574.9	3711.5	3741.2	3750.7	3438.3	3038.1
15°	2861.0	2861.0	2874.5	2892.1	3051.6	3327.5	3606.0	3692.5	3896.7	3654.7	3153.0
17.5°	2924.5	2921.8	2940.8	2904.3	2963.8	3176.0	3508.6	3607.3	4060.3	3866.9	3243.6
20°	3117.9	3127.4	3115.2	3009.7	3013.8	3173.3	3400.5	3556.0	4171.2	4050.8	3364.0
22.5°	3387.0	3392.4	3323.4	3208.5	3174.7	3253.1	3462.7	3581.7	4260.4	4271.2	3400.5
25°	3697.9	3676.3	3662.8	3500.5	3397.8	3465.4	3603.3	3672.2	4315.8	4460.5	3504.6
27.5°	4129.2	4086.0	4003.5	3858.8	3783.1	3687.1	3785.8	3899.4	4474.0	4725.5	3618.2
30°	4766.1	4728.2	4567.3	4380.7	4182.0	4087.3	4118.4	4180.6	4759.3	5032.4	3768.2
32.5°	5724.7	5644.9	5412.4	5056.8	4786.4	4525.4	4517.3	4583.5	5014.9	5457.0	3946.7
35°	6780.7	6756.3	6414.3	6047.8	5524.6	5121.7	5128.4	5163.6	5504.3	6014.0	4180.6
37.5°	7482.4	7616.3	7398.6	7005.1	6565.7	5989.7	5843.7	5855.8	6176.3	6673.9	4602.5
40°	8024.6	7911.0	7936.7	7844.8	7544.6	7152.5	6829.3	6765.8	6953.7	7404.0	5021.6
42.5°	7788.0	7793.4	7951.6	8169.3	8243.6	8215.2	7885.3	7765.0	7619.0	8001.6	5420.5
45°	7120.0	7259.3	7464.8	8040.8	8546.5	9021.1	8956.2	8756.1	8078.7	8474.8	5650.3
47.5°	6054.6	6049.2	6385.9	7134.9	8258.5	9369.9	9664.7	9524.0	8404.5	8422.1	5603.0
48°	5661.1	5758.5	6106.0	6987.5	8076.0	9318.5	9728.2	9551.1	8349.1	8351.8	5562.4
50°	4184.7	4167.1	4599.8	5681.4	7213.3	8756.1	9460.5	9598.4	8347.7	7996.2	5278.5
52.5°	2210.6	2286.4	2601.4	3572.2	5100.0	7166.0	8345.0	8560.0	8053.0	7414.8	4870.2
55°	939.7	849.1	1091.1	1613.0	2869.1	4787.7	6122.2	6600.8	6809.1	6561.6	4260.4
57.5°	335.3	366.4	421.8	607.1	1206.1	2620.3	3650.6	4022.4	4717.4	4814.7	2902.9
60°	215.0	219.0	236.6	278.5	452.9	1010.0	1732.0	2028.1	2343.2	2418.9	1354.8
62.5°	166.3	167.7	175.8	182.5	215.0	392.1	650.3	770.7	800.4	688.2	355.6
65°	139.3	140.6	143.3	143.3	152.8	183.9	227.1	250.1	243.4	240.7	201.5
67.5°	106.8	109.5	114.9	114.9	120.3	112.2	125.7	133.9	151.4	183.9	171.7
70°	83.8	85.2	89.2	91.9	91.9	81.1	90.6	98.7	110.9	136.6	135.2
72.5°	64.9	67.6	70.3	70.3	66.3	55.4	64.9	71.7	79.8	94.6	91.9
75°	50.0	50.0	51.4	41.9	32.4	28.4	39.2	47.3	59.5	62.2	51.4
77.5°	13.5	14.9	13.5	12.2	13.5	20.3	25.7	29.7	37.9	37.9	33.8
80°	0.0	1.4	4.1	8.1	13.5	18.9	23.0	25.7	29.7	32.4	31.1
82.5°	0.0	1.4	4.1	8.1	12.2	14.9	20.3	21.6	24.3	28.4	28.4
85°	0.0	1.4	2.7	5.4	8.1	9.5	9.5	8.1	8.1	6.8	5.4
87.5°	0.0	0.0	1.4	2.7	2.7	4.1	4.1	4.1	4.1	4.1	4.1
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°	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5	2678.5
2.5°	2692.0	2650.1	2586.5	2486.5	2390.5	2328.3	2268.8	2202.5	2166.0	2163.3	2143.0
5°	2724.4	2629.8	2478.4	2306.6	2122.8	1964.6	1805.0	1700.9	1607.6	1556.2	1546.8
7.5°	2742.0	2619.0	2374.2	2086.3	1772.6	1514.3	1335.9	1204.7	1153.3	1115.5	1114.1
10°	2778.5	2600.0	2218.8	1794.2	1406.2	1145.2	1022.2	962.7	934.3	923.5	907.2
12.5°	2805.6	2564.9	2059.2	1494.0	1111.4	949.2	895.1	881.6	882.9	888.3	881.6
15°	2843.4	2533.8	1844.2	1226.3	932.9	854.5	854.5	857.2	876.1	878.9	877.5
17.5°	2840.7	2473.0	1622.5	1010.0	824.8	814.0	818.0	843.7	855.9	859.9	850.5
20°	2873.2	2416.2	1394.0	862.6	763.9	780.1	807.2	814.0	828.8	831.5	820.7
22.5°	2863.7	2274.2	1181.7	746.3	718.0	749.1	776.1	784.2	780.1	772.0	770.7
25°	2846.1	2152.5	987.0	669.3	684.2	718.0	743.6	728.8	720.7	722.0	723.4
27.5°	2815.0	1998.4	826.1	615.2	638.2	688.2	686.9	681.4	689.6	682.8	689.6
30°	2809.6	1844.2	693.6	566.5	604.4	640.9	643.6	653.1	662.5	650.3	662.5
32.5°	2817.7	1675.2	599.0	536.8	584.1	585.4	615.2	624.7	617.9	590.9	593.6
35°	2879.9	1545.4	530.0	520.5	551.6	553.0	581.4	569.2	539.5	523.3	532.7
37.5°	3011.1	1437.3	497.6	505.7	508.4	526.0	527.3	503.0	505.7	504.3	509.7
40°	3178.7	1354.8	474.6	492.2	489.5	501.6	452.9	466.5	478.6	482.7	485.4
42.5°	3293.7	1295.3	459.7	470.5	465.1	443.5	416.4	430.0	439.4	454.3	457.0
45°	3345.0	1248.0	442.1	432.7	432.7	393.5	382.6	385.3	407.0	423.2	420.5
47.5°	3261.2	1202.0	411.0	382.6	392.1	359.7	347.5	347.5	370.5	390.8	386.7
48°	3228.8	1183.1	412.4	371.8	378.6	354.2	342.1	339.4	365.1	384.0	384.0
50°	3067.9	1112.8	377.2	342.1	328.6	325.9	317.7	320.4	336.7	354.2	354.2
52.5°	2754.2	961.3	319.1	293.4	269.1	285.3	289.3	283.9	292.0	308.3	306.9
55°	2298.5	738.2	255.5	243.4	224.4	242.0	250.1	243.4	235.3	247.4	247.4
57.5°	1472.4	397.5	204.2	206.9	187.9	205.5	212.3	196.1	181.2	190.6	189.3
60°	663.9	238.0	167.7	163.6	151.4	171.7	182.5	163.6	143.3	150.1	156.8
62.5°	248.8	169.0	127.1	124.4	121.7	140.6	146.0	131.2	110.9	114.9	116.3
65°	182.5	148.7	101.4	91.9	97.3	110.9	108.2	93.3	79.8	79.8	82.5
67.5°	155.5	129.8	82.5	71.7	71.7	73.0	67.6	59.5	55.4	58.1	60.8
70°	121.7	102.8	64.9	55.4	50.0	44.6	39.2	37.9	33.8	37.9	36.5
72.5°	78.4	69.0	50.0	41.9	37.9	31.1	25.7	24.3	20.3	18.9	18.9
75°	41.9	41.9	39.2	33.8	29.7	24.3	20.3	16.2	10.8	8.1	8.1
77.5°	29.7	32.4	35.2	32.4	27.0	20.3	16.2	10.8	5.4	2.7	2.7
80°	28.4	32.4	35.2	31.1	27.0	20.3	14.9	8.1	4.1	1.4	1.4
82.5°	25.7	29.7	32.4	28.4	24.3	17.6	13.5	8.1	4.1	1.4	1.4
85°	5.4	6.8	8.1	8.1	9.5	12.2	9.5	6.8	2.7	1.4	1.4
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.7	2.7	1.4	1.4	1.4
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)