

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: P529033

Luminaire Tested: **GALN-SA4A-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529033
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-SA4A-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 10724 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

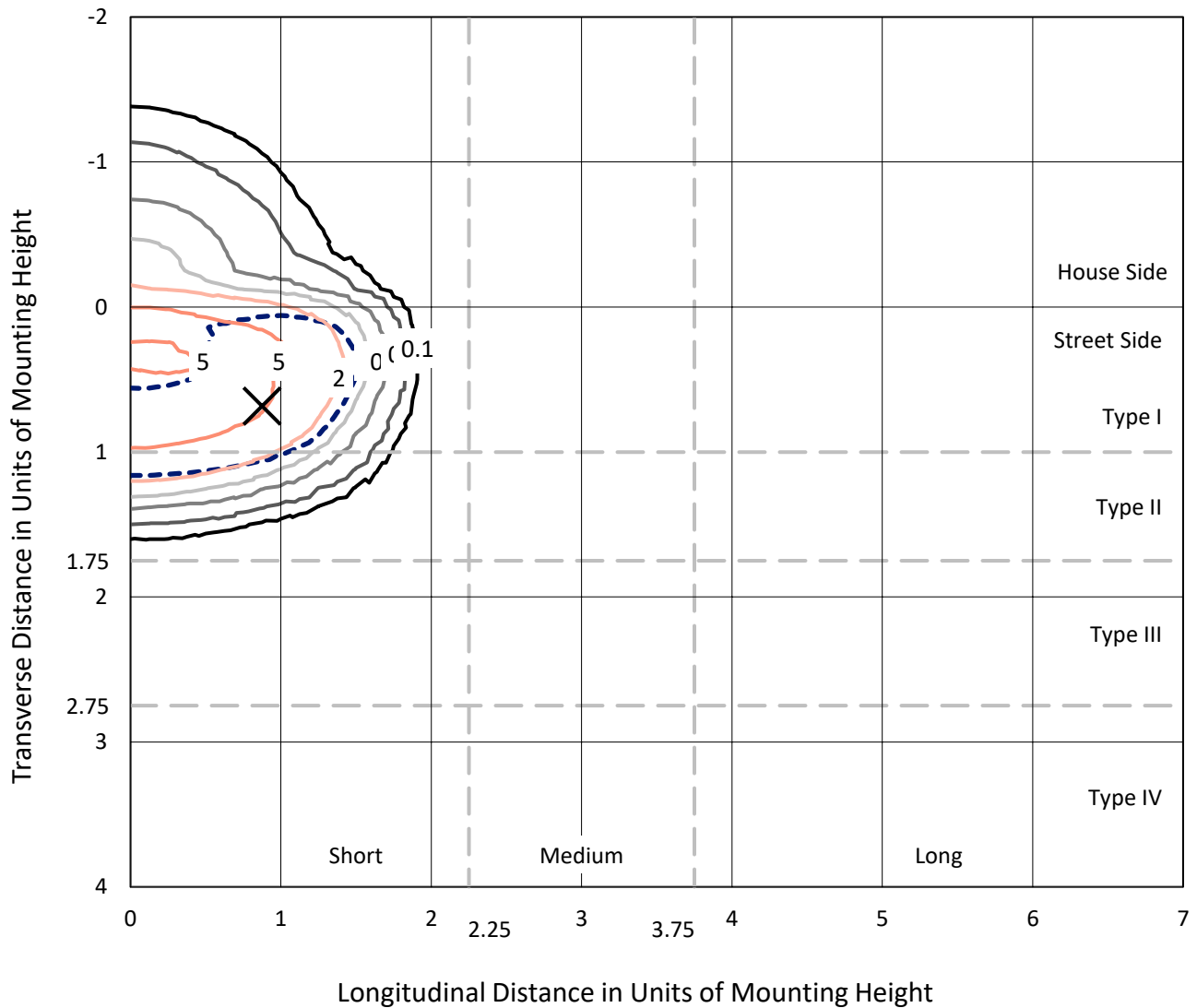
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

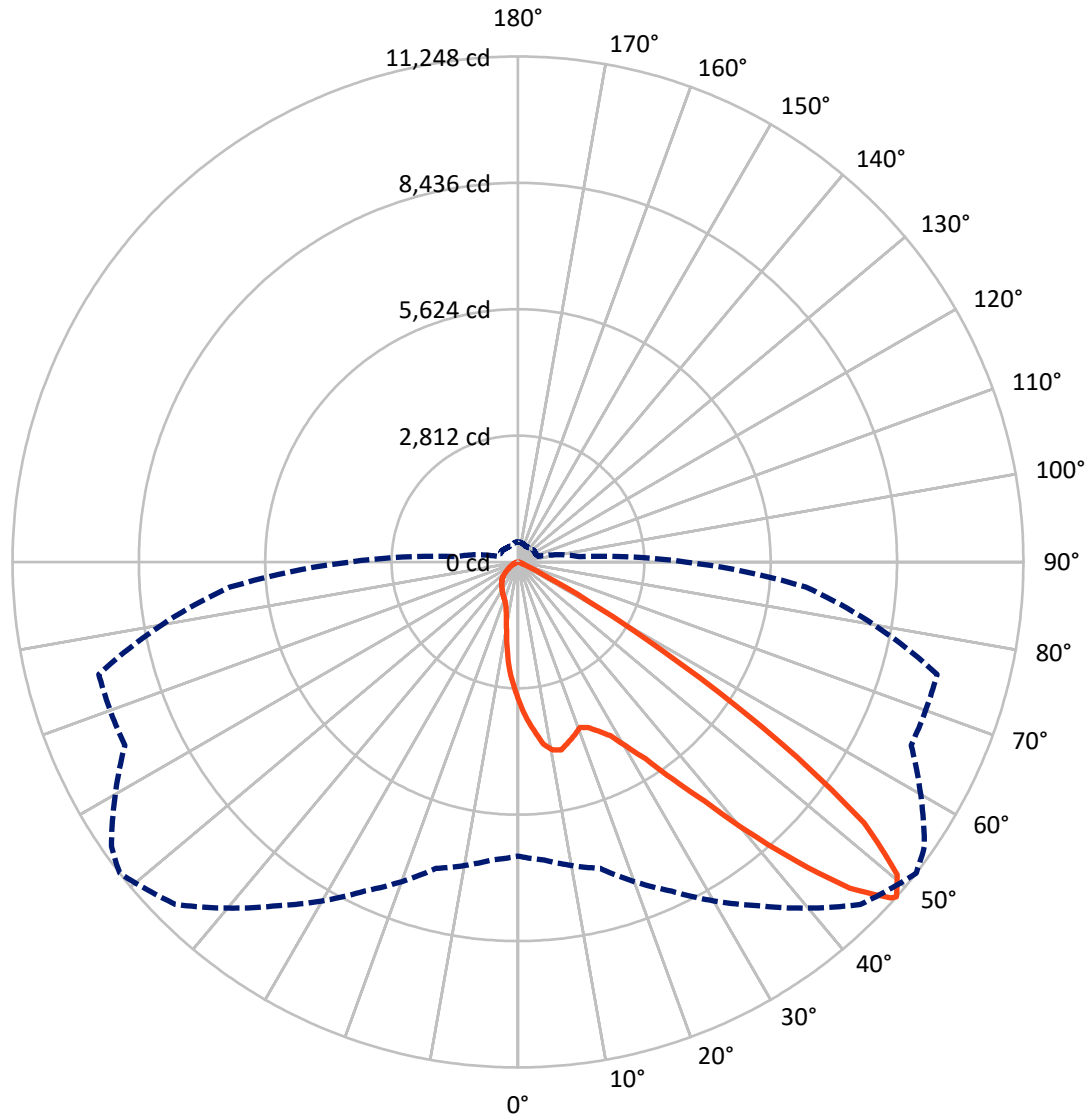
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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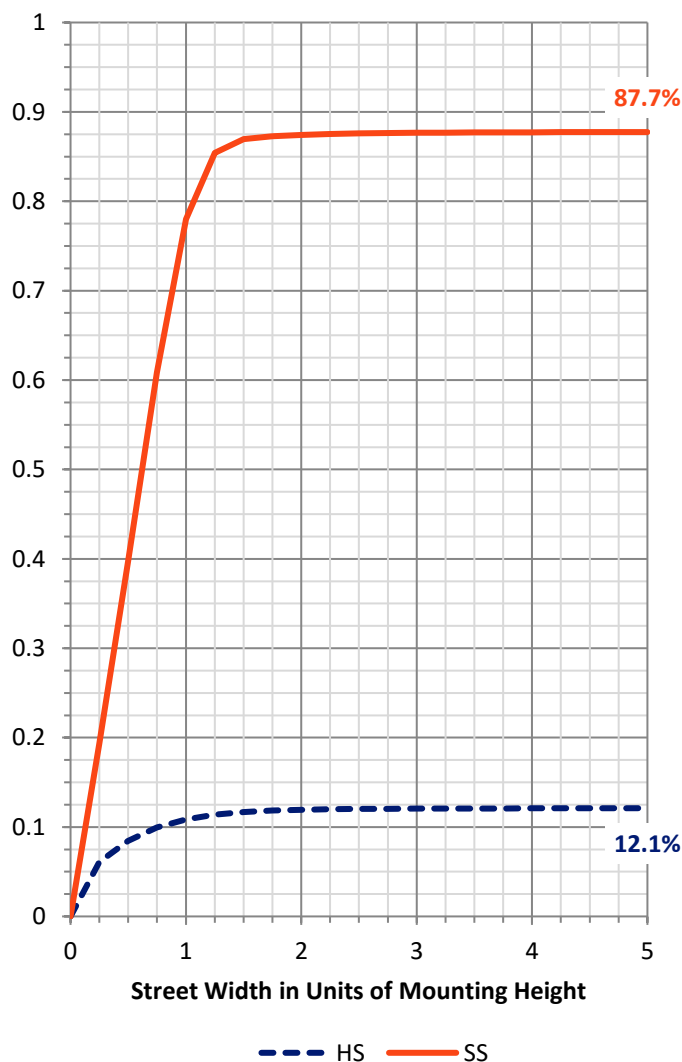
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.7	0.0	1305.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9418.3	0.0	9418.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	10724.0	0.0	10724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	2.6
10°-20°	740.8	6.9
20°-30°	1264.8	11.8
30°-40°	2329.1	21.7
40°-50°	3617.1	33.7
50°-60°	2176.9	20.3
60°-70°	251.8	2.3
70°-80°	48.7	0.5
80°-90°	11.3	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°	10724.0	100.0
0°-180°	10724.0	100.0

Coefficient of Utilization



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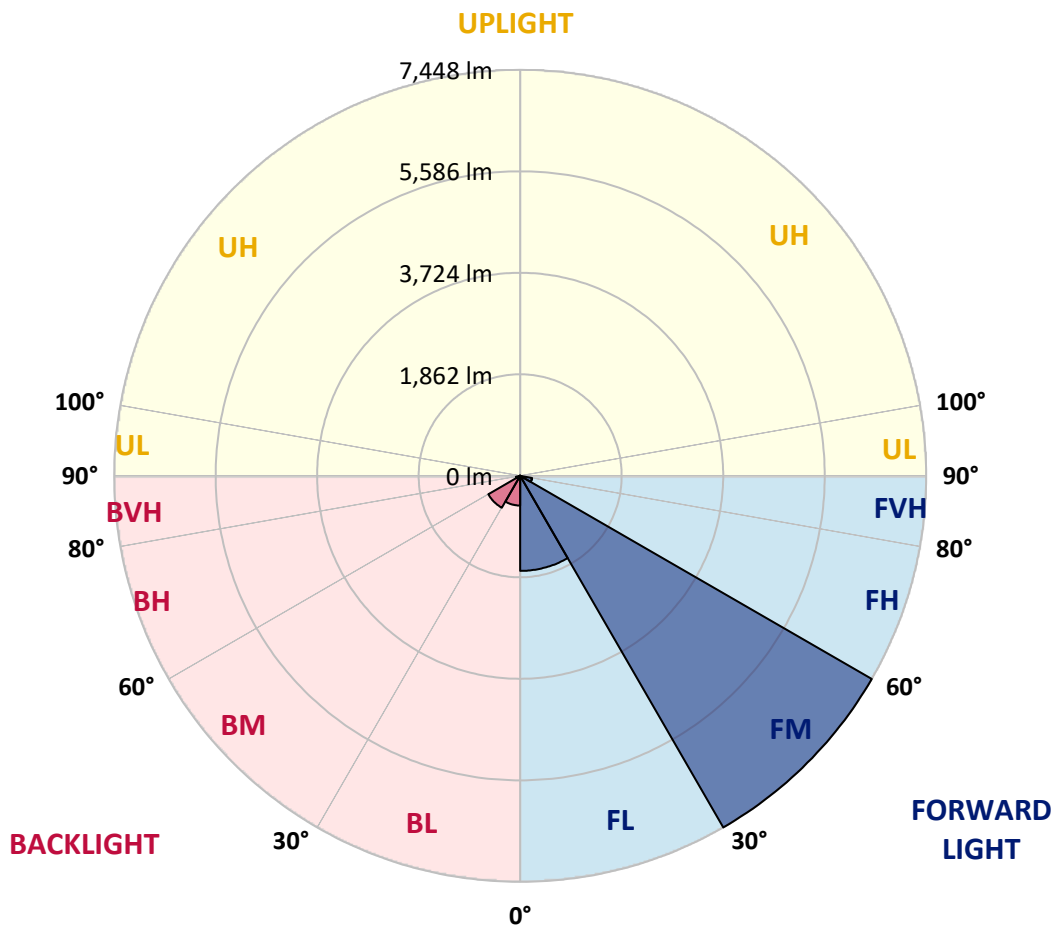
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.6	16.3			
FM (30°-60°)	7447.6	69.4			
FH (60°-80°)	221.7	2.1			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	545.4	5.1	B2/1000		
BM (30°-60°)	675.6	6.3	B1/1000		
BH (60°-80°)	78.8	0.7	B0/110		G0/110
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9
2.5°	3753.5	3667.5	3675.3	3619.1	3586.2	3533.1	3461.2	3447.1	3368.9	3262.6	3154.8
5°	4091.2	4070.9	4097.4	4016.1	4019.3	3931.7	3762.9	3766.0	3586.2	3412.7	3245.4
7.5°	4113.1	4066.2	4092.7	4164.7	4206.9	4191.2	4095.9	4013.0	3842.6	3587.8	3343.9
10°	3683.2	3772.3	3800.4	3919.2	4088.1	4266.3	4255.3	4260.0	4117.8	3784.8	3428.3
12.5°	3425.2	3365.8	3461.2	3533.1	3787.9	4133.4	4291.3	4325.7	4336.6	3975.5	3512.8
15°	3308.0	3308.0	3323.6	3343.9	3528.4	3847.3	4169.3	4269.4	4505.5	4225.6	3645.6
17.5°	3381.4	3378.3	3400.2	3358.0	3426.8	3672.2	4056.8	4170.9	4694.6	4471.1	3750.4
20°	3605.0	3615.9	3601.9	3479.9	3484.6	3669.1	3931.7	4111.5	4822.8	4683.7	3889.5
22.5°	3916.1	3922.3	3842.6	3709.7	3670.6	3761.3	4003.6	4141.2	4926.0	4938.5	3931.7
25°	4275.6	4250.6	4235.0	4047.4	3928.6	4006.8	4166.2	4245.9	4990.1	5157.4	4052.1
27.5°	4774.3	4724.3	4629.0	4461.7	4374.1	4263.1	4377.3	4508.6	5173.0	5463.8	4183.4
30°	5510.7	5466.9	5280.9	5065.1	4835.3	4725.9	4761.8	4833.7	5502.8	5818.6	4356.9
32.5°	6619.0	6526.8	6257.9	5846.8	5534.1	5232.4	5223.0	5299.6	5798.3	6309.5	4563.3
35°	7840.0	7811.8	7416.3	6992.7	6387.7	5921.8	5929.6	5970.3	6364.2	6953.6	4833.7
37.5°	8651.3	8806.1	8554.4	8099.5	7591.4	6925.5	6756.6	6770.7	7141.2	7716.5	5321.5
40°	9278.2	9146.9	9176.6	9070.3	8723.3	8269.9	7896.3	7822.8	8040.1	8560.7	5806.1
42.5°	9004.7	9010.9	9193.8	9445.5	9531.5	9498.7	9117.2	8978.1	8809.2	9251.7	6267.3
45°	8232.4	8393.4	8631.0	9297.0	9881.7	10430.4	10355.4	10124.0	9340.8	9798.8	6533.1
47.5°	7000.5	6994.2	7383.5	8249.6	9548.7	10833.7	11174.5	11011.9	9717.5	9737.8	6478.3
48°	6545.6	6658.1	7059.9	8079.2	9337.6	10774.3	11248.0	11043.2	9653.4	9656.6	6431.4
50°	4838.4	4818.1	5318.4	6569.0	8340.2	10124.0	10938.5	11097.9	9651.9	9245.4	6103.2
52.5°	2556.0	2643.6	3007.8	4130.3	5896.8	8285.5	9648.7	9897.3	9311.1	8573.2	5631.0
55°	1086.5	981.8	1261.6	1865.0	3317.3	5535.7	7078.7	7632.1	7872.8	7586.7	4926.0
57.5°	387.7	423.7	487.8	701.9	1394.5	3029.7	4220.9	4650.8	5454.4	5566.9	3356.4
60°	248.6	253.3	273.6	322.0	523.7	1167.8	2002.6	2345.0	2709.2	2796.8	1566.4
62.5°	192.3	193.9	203.2	211.0	248.6	453.4	752.0	891.1	925.5	795.7	411.1
65°	161.0	162.6	165.7	165.7	176.7	212.6	262.6	289.2	281.4	278.3	232.9
67.5°	123.5	126.6	132.9	132.9	139.1	129.8	145.4	154.8	175.1	212.6	198.5
70°	96.9	98.5	103.2	106.3	106.3	93.8	104.7	114.1	128.2	157.9	156.3
72.5°	75.0	78.2	81.3	81.3	76.6	64.1	75.0	82.9	92.2	109.4	106.3
75°	57.8	57.8	59.4	48.5	37.5	32.8	45.3	54.7	68.8	71.9	59.4
77.5°	15.6	17.2	15.6	14.1	15.6	23.4	29.7	34.4	43.8	43.8	39.1
80°	0.0	1.6	4.7	9.4	15.6	21.9	26.6	29.7	34.4	37.5	36.0
82.5°	0.0	1.6	4.7	9.4	14.1	17.2	23.4	25.0	28.1	32.8	32.8
85°	0.0	1.6	3.1	6.3	9.4	10.9	10.9	9.4	9.4	7.8	6.3
87.5°	0.0	0.0	1.6	3.1	3.1	4.7	4.7	4.7	4.7	4.7	4.7
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°	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9	3096.9
2.5°	3112.5	3064.1	2990.6	2874.9	2763.9	2692.0	2623.2	2546.6	2504.4	2501.3	2477.8
5°	3150.1	3040.6	2865.5	2667.0	2454.4	2271.5	2087.0	1966.6	1858.8	1799.4	1788.4
7.5°	3170.4	3028.1	2745.2	2412.2	2049.5	1750.9	1544.5	1392.9	1333.5	1289.7	1288.2
10°	3212.6	3006.2	2565.4	2074.5	1625.8	1324.1	1181.9	1113.1	1080.2	1067.7	1049.0
12.5°	3243.9	2965.6	2380.9	1727.5	1285.0	1097.4	1034.9	1019.3	1020.8	1027.1	1019.3
15°	3287.6	2929.6	2132.4	1417.9	1078.7	988.0	988.0	991.1	1013.0	1016.2	1014.6
17.5°	3284.5	2859.3	1876.0	1167.8	953.6	941.1	945.8	975.5	989.6	994.3	983.3
20°	3322.0	2793.6	1611.8	997.4	883.3	902.0	933.3	941.1	958.3	961.4	948.9
22.5°	3311.1	2629.5	1366.3	862.9	830.1	866.1	897.3	906.7	902.0	892.6	891.1
25°	3290.8	2488.8	1141.2	773.8	791.0	830.1	859.8	842.6	833.2	834.8	836.4
27.5°	3254.8	2310.6	955.2	711.3	737.9	795.7	794.2	787.9	797.3	789.5	797.3
30°	3248.6	2132.4	802.0	655.0	698.8	741.0	744.1	755.1	766.0	752.0	766.0
32.5°	3257.9	1936.9	692.5	620.6	675.3	676.9	711.3	722.2	714.4	683.2	686.3
35°	3329.8	1786.9	612.8	601.9	637.8	639.4	672.2	658.2	623.8	605.0	615.9
37.5°	3481.5	1661.8	575.3	584.7	587.8	608.1	609.7	581.6	584.7	583.1	589.4
40°	3675.3	1566.4	548.7	569.0	565.9	580.0	523.7	539.3	553.4	558.1	561.2
42.5°	3808.2	1497.6	531.5	544.0	537.8	512.8	481.5	497.1	508.1	525.3	528.4
45°	3867.6	1442.9	511.2	500.3	500.3	454.9	442.4	445.5	470.6	489.3	486.2
47.5°	3770.7	1389.8	475.2	442.4	453.4	415.8	401.8	401.8	428.3	451.8	447.1
48°	3733.2	1367.9	476.8	429.9	437.7	409.6	395.5	392.4	422.1	444.0	444.0
50°	3547.1	1286.6	436.2	395.5	379.9	376.8	367.4	370.5	389.3	409.6	409.6
52.5°	3184.5	1111.5	368.9	339.2	311.1	329.9	334.5	328.3	337.7	356.4	354.9
55°	2657.6	853.6	295.5	281.4	259.5	279.8	289.2	281.4	272.0	286.1	286.1
57.5°	1702.4	459.6	236.1	239.2	217.3	237.6	245.4	226.7	209.5	220.4	218.9
60°	767.6	275.1	193.9	189.2	175.1	198.5	211.0	189.2	165.7	173.5	181.3
62.5°	287.6	195.4	147.0	143.8	140.7	162.6	168.8	151.6	128.2	132.9	134.4
65°	211.0	172.0	117.2	106.3	112.6	128.2	125.1	107.9	92.2	92.2	95.4
67.5°	179.8	150.1	95.4	82.9	82.9	84.4	78.2	68.8	64.1	67.2	70.3
70°	140.7	118.8	75.0	64.1	57.8	51.6	45.3	43.8	39.1	43.8	42.2
72.5°	90.7	79.7	57.8	48.5	43.8	36.0	29.7	28.1	23.4	21.9	21.9
75°	48.5	48.5	45.3	39.1	34.4	28.1	23.4	18.8	12.5	9.4	9.4
77.5°	34.4	37.5	40.6	37.5	31.3	23.4	18.8	12.5	6.3	3.1	3.1
80°	32.8	37.5	40.6	36.0	31.3	23.4	17.2	9.4	4.7	1.6	1.6
82.5°	29.7	34.4	37.5	32.8	28.1	20.3	15.6	9.4	4.7	1.6	1.6
85°	6.3	7.8	9.4	9.4	10.9	14.1	10.9	7.8	3.1	1.6	1.6
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.1	3.1	1.6	1.6	1.6
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)