

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: P647896

Luminaire Tested: **GALN-SA4A-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9368.6 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

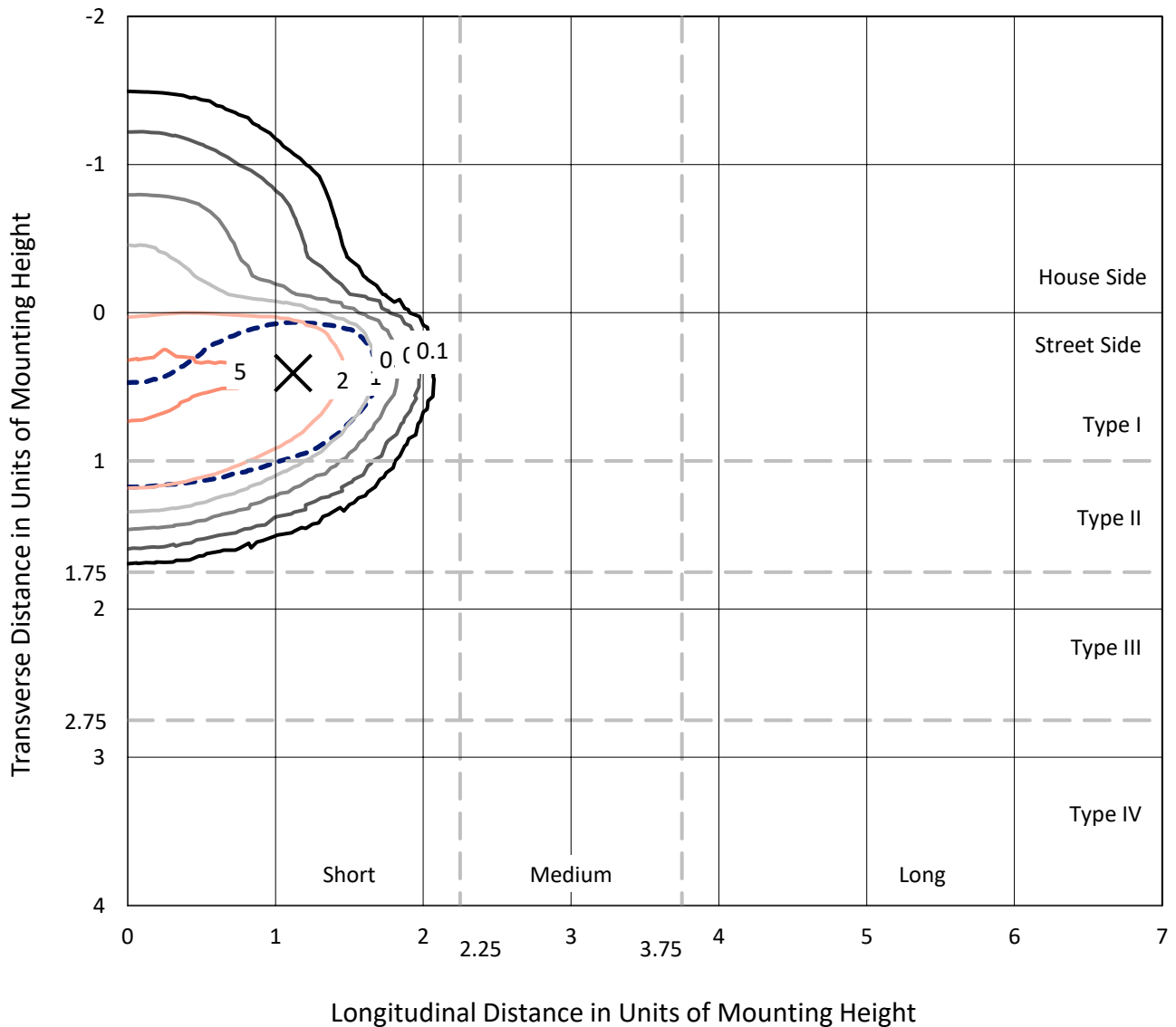
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

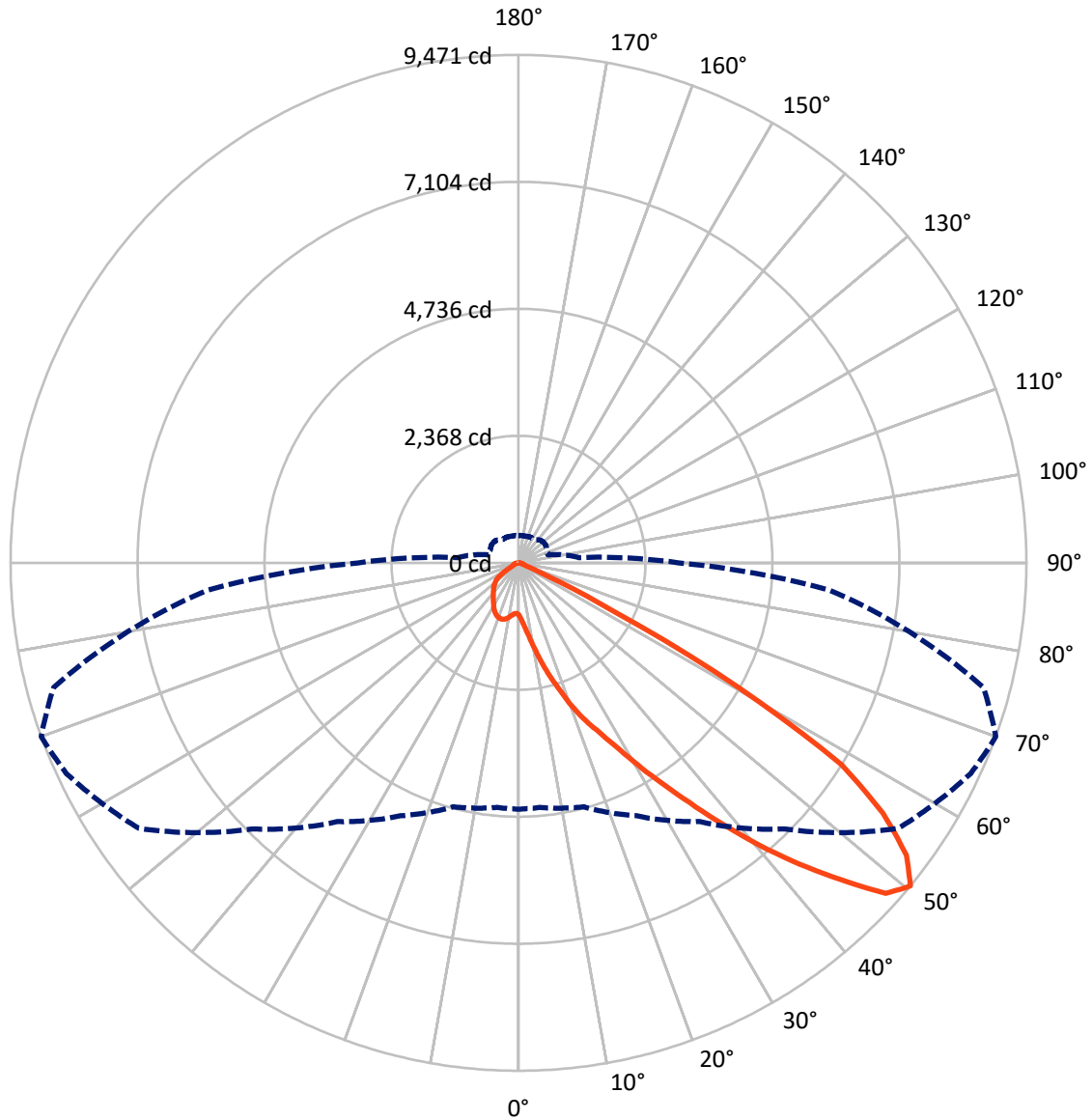
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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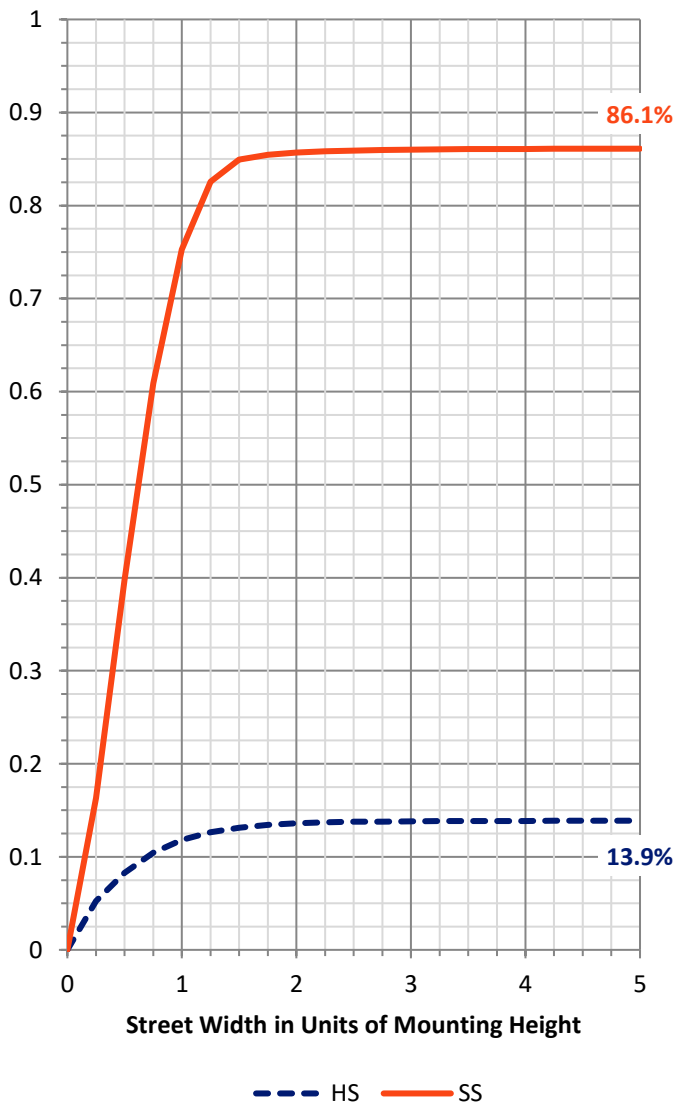
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1308.4	0.0	1308.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8060.2	0.0	8060.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	9368.6	0.0	9368.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.3
10°-20°	545.8	5.8
20°-30°	1145.1	12.2
30°-40°	1973.7	21.1
40°-50°	2884.6	30.8
50°-60°	2246.6	24.0
60°-70°	380.7	4.1
70°-80°	52.3	0.6
80°-90°	13.6	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°	9368.6	100.0
0°-180°	9368.6	100.0

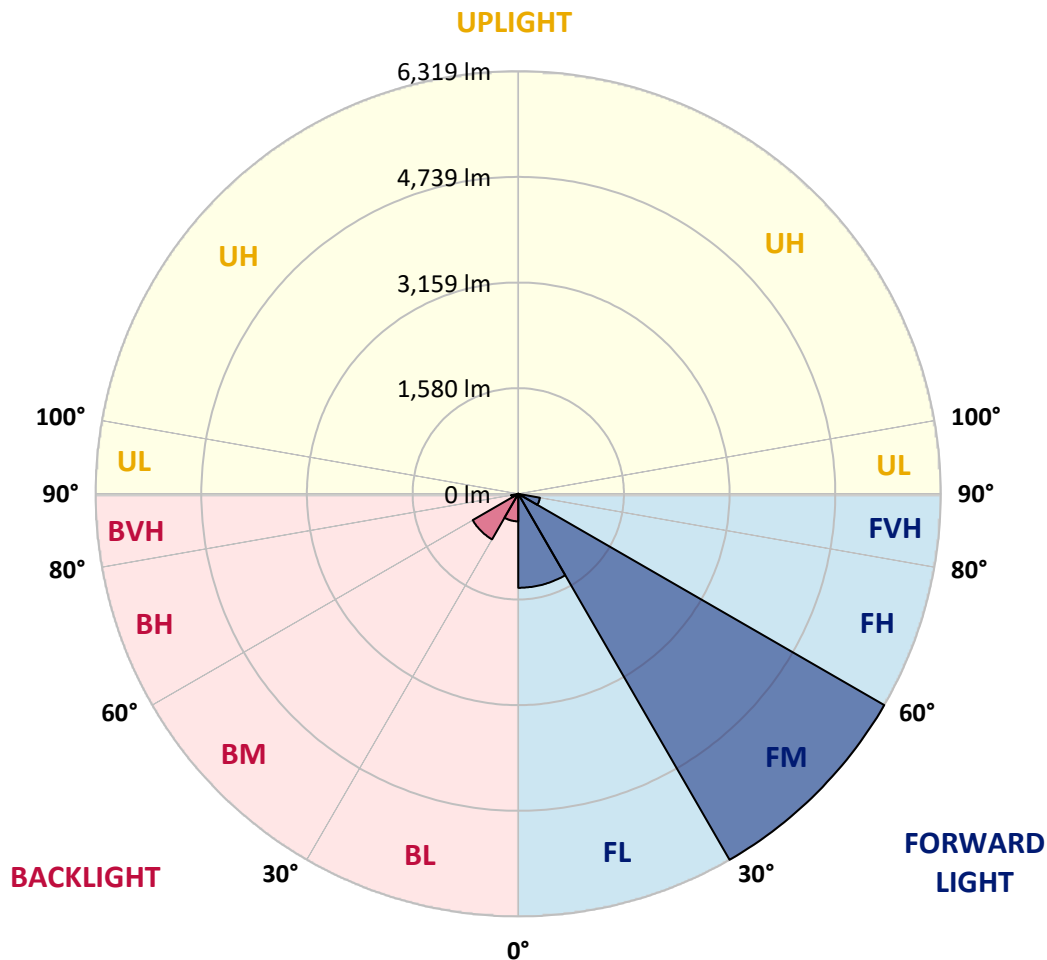


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1405.4	15.0			
FM (30°-60°)	6319.0	67.4			
FH (60°-80°)	329.6	3.5			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	411.7	4.4	B1/500		
BM (30°-60°)	786.0	8.4	B1/1000		
BH (60°-80°)	103.4	1.1	B0/110		G0/110
BVH (80°-90°)	7.3	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4
2.5°	1270.7	1261.5	1241.5	1204.6	1189.1	1152.2	1130.6	1089.0	1062.8	1033.6	1001.2
5°	1789.9	1742.1	1712.8	1671.2	1549.6	1474.1	1349.3	1243.0	1193.8	1139.8	1065.9
7.5°	2325.9	2295.1	2255.0	2165.7	2082.5	1925.4	1711.3	1477.1	1377.1	1284.6	1138.3
10°	2769.5	2683.3	2678.6	2612.4	2521.5	2333.6	2076.4	1785.2	1606.6	1471.0	1241.5
12.5°	3079.1	3000.5	3036.0	3028.3	2943.5	2771.0	2473.7	2088.7	1902.3	1691.3	1347.8
15°	3360.9	3328.6	3317.9	3308.6	3274.7	3146.9	2880.4	2458.4	2188.8	1934.6	1467.9
17.5°	3636.7	3553.5	3593.6	3601.3	3598.2	3482.6	3233.2	2809.6	2492.2	2191.9	1594.3
20°	3881.6	3889.3	3835.4	3824.6	3815.4	3810.8	3567.3	3157.7	2865.0	2461.4	1759.0
22.5°	4195.9	4141.9	4189.7	4158.9	4098.8	4061.8	3875.5	3465.7	3188.5	2786.5	1927.0
25°	4567.1	4610.1	4497.7	4485.4	4419.2	4291.3	4123.4	3810.8	3499.6	3088.3	2108.7
27.5°	5024.5	4949.0	4919.7	4852.0	4731.9	4678.0	4480.8	4166.6	3875.5	3405.7	2284.3
30°	5417.3	5397.3	5251.0	5170.9	5066.1	5064.6	4788.8	4648.7	4365.3	3903.2	2526.1
32.5°	5737.7	5649.9	5596.0	5540.5	5455.8	5478.9	5246.3	5172.4	4887.4	4365.3	2811.0
35°	5951.8	5888.6	5856.3	5771.6	5746.9	5850.1	5753.1	5722.3	5488.1	5015.3	3145.3
37.5°	6019.5	6039.6	6033.4	5927.2	5979.5	6258.3	6383.1	6303.0	6179.7	5700.7	3507.3
40°	6079.7	6093.5	6062.7	6187.5	6336.9	6654.2	7105.5	6973.0	6926.8	6395.4	4011.0
42.5°	6113.5	6102.8	6102.8	6318.4	6544.8	7182.5	7803.3	7715.4	7680.1	7134.8	4593.2
45°	5967.2	5862.5	5974.9	6267.6	6723.5	7442.8	8360.9	8482.6	8431.7	8014.3	5274.1
47.5°	5420.4	5485.1	5548.3	5939.4	6506.3	7362.7	8702.8	9117.2	9211.1	8753.6	5720.8
50°	4593.2	4579.4	4710.3	5203.2	5891.8	7017.7	8636.6	9300.5	9471.4	8975.5	5814.7
52.5°	3341.0	3442.6	3584.3	4074.2	4890.5	6124.3	7781.7	8827.5	9055.6	8702.8	5753.1
55°	1945.4	1833.0	2151.8	2566.2	3336.4	4619.4	6578.7	7824.8	8246.9	8206.9	5441.9
57.5°	779.4	754.7	864.1	1164.5	1740.5	2863.4	4784.2	6429.3	7105.5	7516.8	4782.7
60°	341.9	334.3	392.8	474.4	711.6	1320.1	2617.0	3998.7	4704.1	5252.5	3291.7
62.5°	246.5	243.4	272.6	301.9	375.8	574.6	1099.8	1611.2	2008.6	2426.0	1474.1
65°	198.7	206.4	226.4	241.9	277.3	318.8	388.1	448.3	549.9	569.9	325.0
67.5°	161.8	167.9	186.4	203.3	209.5	172.5	178.7	157.1	157.1	140.2	112.4
70°	118.6	120.1	141.7	161.8	129.4	69.3	121.7	121.7	109.4	104.8	95.5
72.5°	87.8	89.3	106.3	100.1	50.8	43.1	89.3	98.6	89.3	84.7	77.0
75°	64.7	66.2	55.4	23.1	21.5	27.7	52.4	67.8	64.7	63.2	58.6
77.5°	12.3	9.2	7.7	10.8	15.4	23.1	33.9	41.6	43.1	46.2	43.1
80°	1.6	1.6	4.6	9.2	16.9	24.7	35.4	40.0	41.6	43.1	40.0
82.5°	0.0	1.6	4.6	9.2	16.9	23.1	30.8	35.4	38.5	40.0	38.5
85°	0.0	1.6	3.1	7.7	13.9	16.9	15.4	10.8	9.2	10.8	7.7
87.5°	0.0	0.0	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4
2.5°	982.7	976.6	955.0	931.9	911.9	921.1	911.9	904.1	907.3	904.1	901.1
5°	1036.6	1008.9	962.7	942.7	925.7	924.2	919.6	918.1	919.6	919.6	905.7
7.5°	1087.4	1042.8	993.5	971.9	951.9	953.5	942.7	942.7	941.2	933.4	930.4
10°	1164.5	1104.4	1041.2	1002.7	978.1	973.5	962.7	951.9	951.9	951.9	936.5
12.5°	1249.2	1173.7	1087.4	1042.8	1013.5	990.4	973.5	970.4	953.5	950.4	942.7
15°	1323.1	1227.7	1118.3	1056.7	1019.7	988.9	962.7	945.8	938.0	933.4	927.3
17.5°	1395.5	1273.9	1135.2	1056.7	1016.6	981.2	953.5	938.0	919.6	922.7	910.3
20°	1492.6	1323.1	1139.8	1036.6	987.4	953.5	916.5	908.8	898.0	888.8	891.8
22.5°	1586.5	1358.6	1126.0	1012.0	941.2	901.1	882.6	873.4	868.7	861.1	850.3
25°	1671.2	1397.1	1104.4	967.3	891.8	862.6	845.6	844.1	833.3	833.3	813.3
27.5°	1757.5	1411.0	1067.5	914.9	848.7	831.8	824.1	821.0	816.4	805.6	791.7
30°	1856.1	1415.6	1013.5	861.1	810.2	791.7	802.5	810.2	790.2	770.2	776.3
32.5°	1937.7	1404.8	948.8	810.2	782.5	773.2	794.8	802.5	779.4	757.9	747.1
35°	2036.3	1378.5	885.7	770.2	754.7	773.2	791.7	791.7	745.5	719.3	713.2
37.5°	2185.7	1349.3	827.2	736.3	725.5	764.0	788.6	771.7	699.3	667.0	659.3
40°	2345.9	1330.9	770.2	702.4	710.1	748.6	762.5	710.1	636.2	616.1	610.0
42.5°	2578.5	1293.9	719.3	673.1	696.2	727.0	727.0	633.1	605.3	594.5	593.0
45°	2868.1	1267.7	674.6	648.5	676.2	683.9	659.3	593.0	573.0	569.9	571.4
47.5°	3009.8	1216.9	628.4	619.2	639.2	640.8	576.1	560.7	543.7	539.1	536.0
50°	2988.2	1126.0	568.4	580.7	608.4	593.0	525.2	528.4	512.9	511.4	503.7
52.5°	2837.3	982.7	508.3	537.6	568.4	523.7	483.7	480.6	480.6	460.6	452.9
55°	2515.3	791.7	435.9	472.9	509.8	440.5	429.7	426.7	419.0	400.5	395.9
57.5°	1991.6	580.7	328.1	368.2	432.8	374.3	372.8	358.9	338.9	325.0	325.0
60°	1184.5	334.3	206.4	224.9	286.5	303.4	337.3	331.1	297.3	275.7	269.6
62.5°	540.7	172.5	130.9	134.0	154.0	197.2	265.0	306.5	258.8	221.8	218.7
65°	181.7	127.9	107.8	103.2	106.3	118.6	158.6	217.2	206.4	171.0	164.8
67.5°	110.9	114.0	101.6	94.0	94.0	92.4	90.9	98.6	121.7	118.6	120.1
70°	95.5	104.8	94.0	84.7	81.7	77.0	64.7	53.9	46.2	53.9	57.0
72.5°	77.0	83.2	80.1	72.4	64.7	58.6	46.2	35.4	26.2	23.1	23.1
75°	57.0	61.6	64.7	55.4	49.3	41.6	33.9	23.1	13.9	9.2	9.2
77.5°	41.6	46.2	47.8	43.1	37.0	29.3	21.5	15.4	7.7	3.1	3.1
80°	35.4	41.6	46.2	43.1	38.5	27.7	20.0	10.8	6.2	1.6	1.6
82.5°	33.9	41.6	46.2	41.6	37.0	26.2	20.0	12.3	4.6	1.6	1.6
85°	7.7	10.8	13.9	16.9	20.0	20.0	15.4	9.2	4.6	1.6	1.6
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	1.6	1.6	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)