

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: P528917

Luminaire Tested: **GALN-SA4A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528917
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-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 11146 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

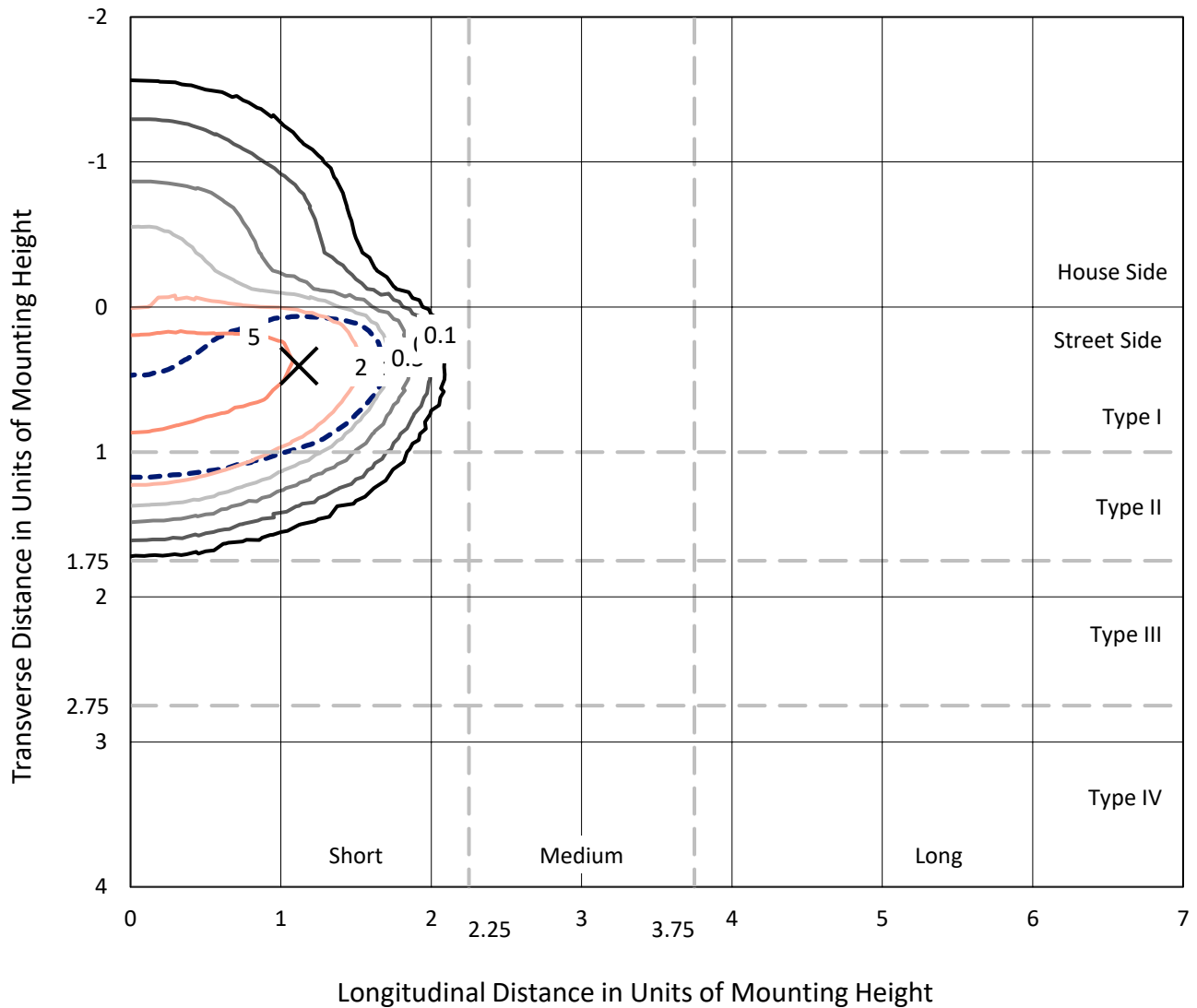
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

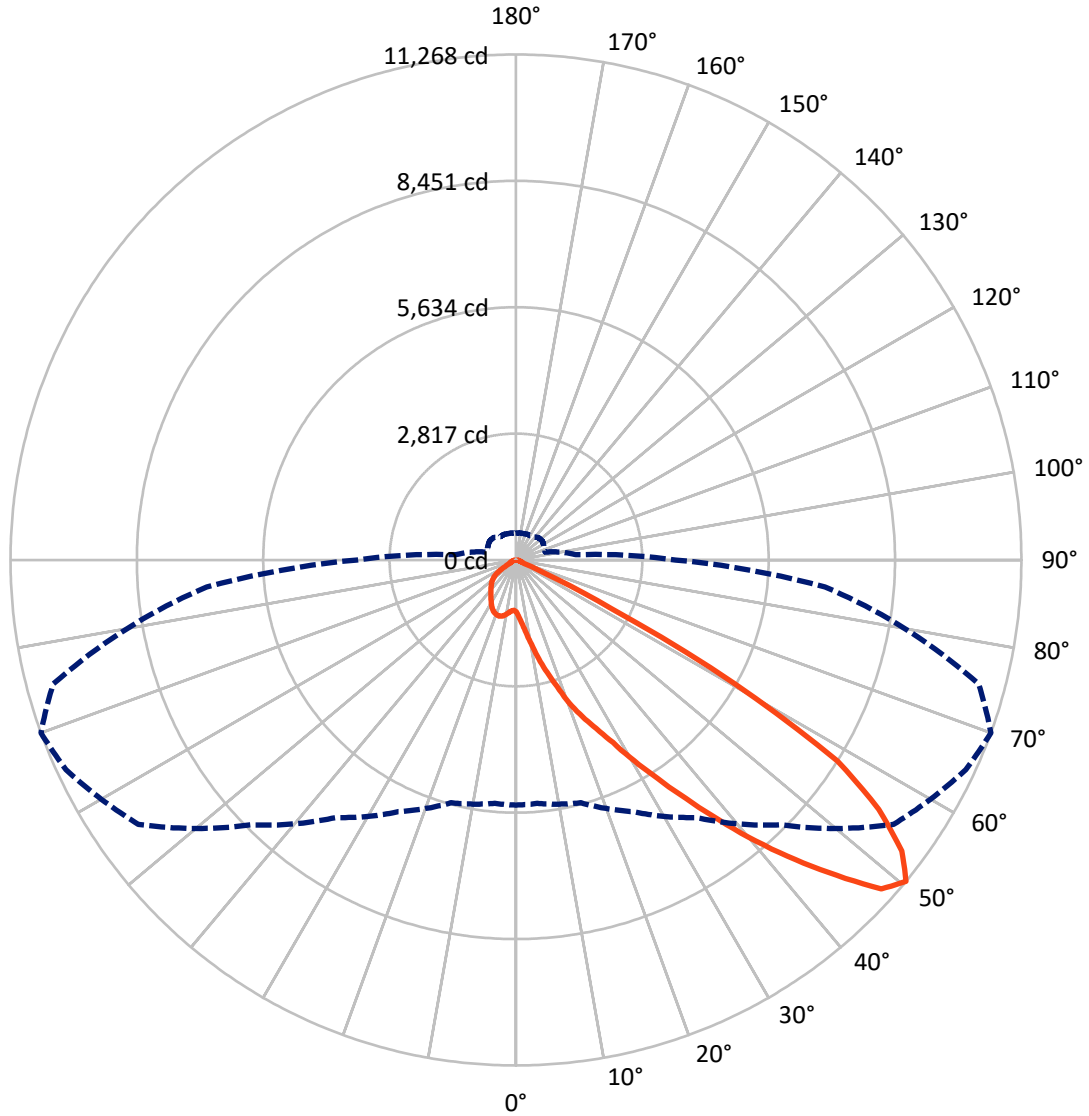
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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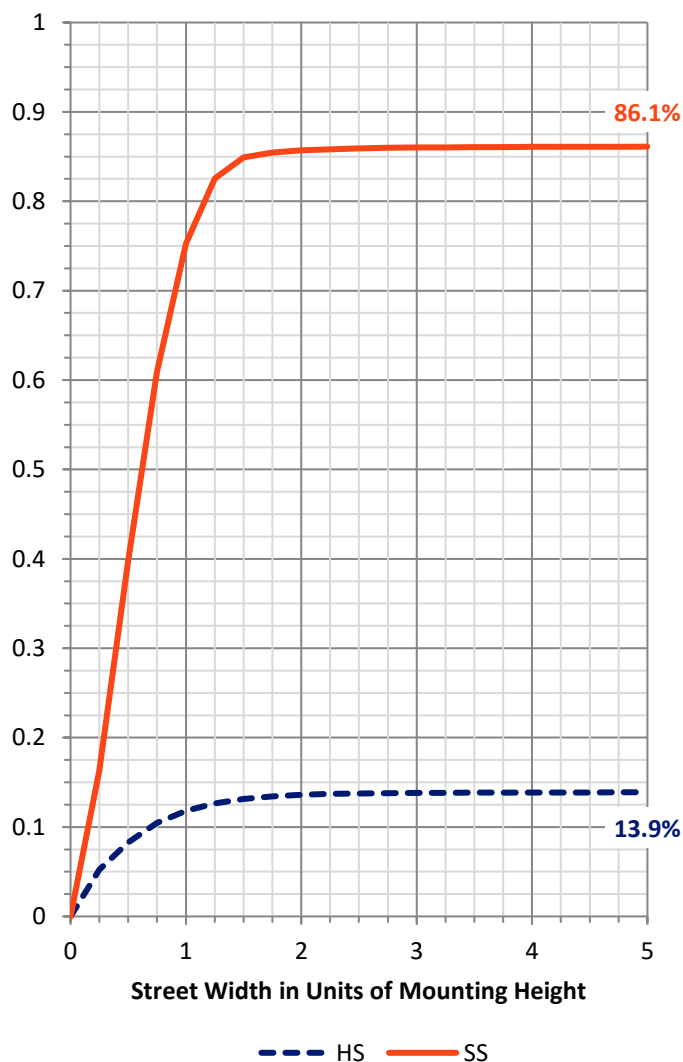
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1556.6	0.0	1556.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9589.4	0.0	9589.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	11146.0	0.0	11146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.3
10°-20°	649.4	5.8
20°-30°	1362.3	12.2
30°-40°	2348.2	21.1
40°-50°	3431.9	30.8
50°-60°	2672.9	24.0
60°-70°	452.9	4.1
70°-80°	62.2	0.6
80°-90°	16.1	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°	11146.0	100.0
0°-180°	11146.0	100.0

Coefficient of Utilization



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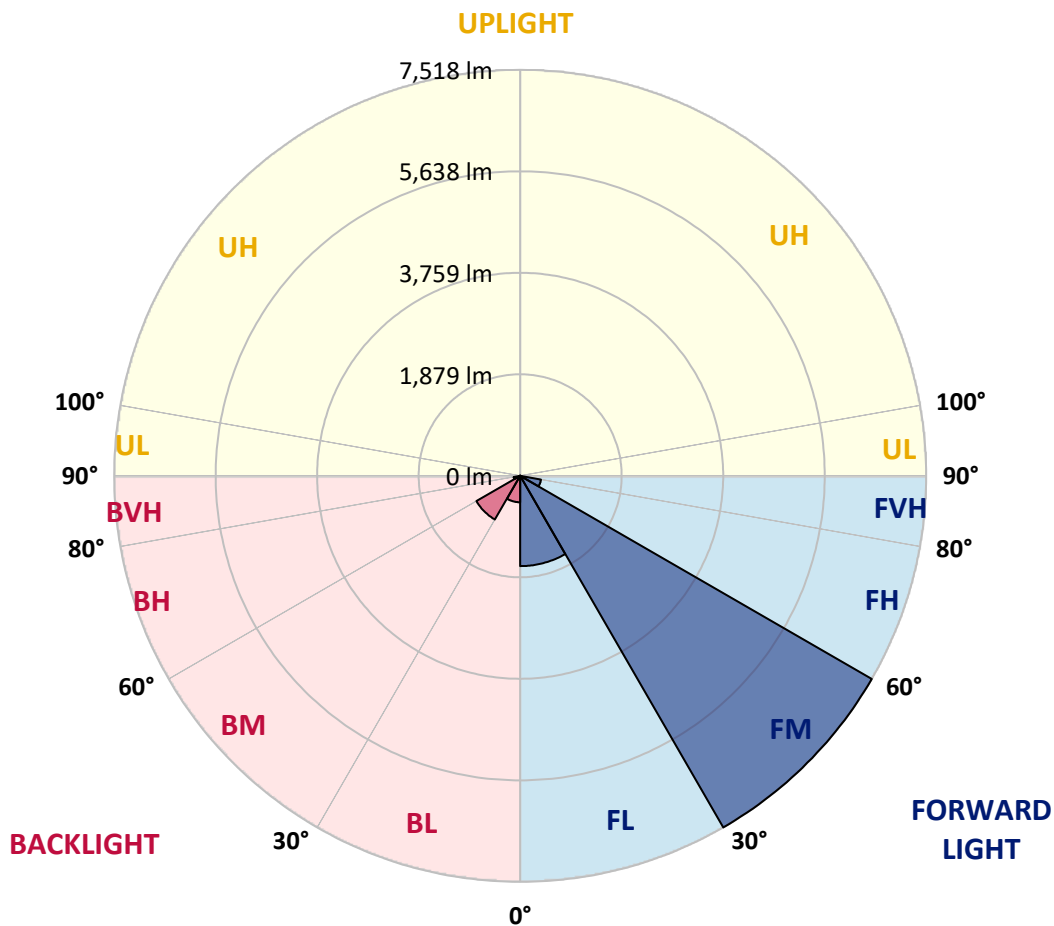
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.0	15.0			
FM (30°-60°)	7517.8	67.4			
FH (60°-80°)	392.1	3.5			G0/660
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	489.8	4.4	B1/500		
BM (30°-60°)	935.2	8.4	B1/1000		
BH (60°-80°)	123.0	1.1	B1/500		G1/500
BVH (80°-90°)	8.7	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5
2.5°	1511.9	1500.9	1477.0	1433.1	1414.7	1370.7	1345.1	1295.6	1264.5	1229.6	1191.2
5°	2129.4	2072.6	2037.8	1988.3	1843.5	1753.7	1605.3	1478.9	1420.2	1356.1	1268.1
7.5°	2767.1	2730.5	2682.9	2576.6	2477.6	2290.7	2036.0	1757.4	1638.3	1528.3	1354.3
10°	3294.9	3192.3	3186.8	3108.0	2999.9	2776.3	2470.3	2123.9	1911.3	1750.1	1477.0
12.5°	3663.3	3569.8	3612.0	3602.8	3502.0	3296.8	2943.1	2484.9	2263.2	2012.1	1603.5
15°	3998.6	3960.1	3947.3	3936.3	3896.0	3743.9	3426.9	2924.7	2604.1	2301.7	1746.4
17.5°	4326.6	4227.7	4275.3	4284.5	4280.8	4143.4	3846.5	3342.6	2965.1	2607.7	1896.7
20°	4618.0	4627.2	4563.0	4550.2	4539.2	4533.7	4244.2	3756.7	3408.5	2928.4	2092.8
22.5°	4991.9	4927.7	4984.5	4947.9	4876.4	4832.4	4610.7	4123.2	3793.4	3315.1	2292.5
25°	5433.5	5484.8	5351.0	5336.4	5257.6	5105.5	4905.7	4533.7	4163.6	3674.3	2508.8
27.5°	5977.8	5888.0	5853.2	5772.5	5629.6	5565.5	5330.9	4957.0	4610.7	4051.8	2717.7
30°	6445.1	6421.3	6247.2	6151.9	6027.3	6025.4	5697.4	5530.6	5193.4	4643.7	3005.4
32.5°	6826.2	6721.8	6657.7	6591.7	6490.9	6518.4	6241.7	6153.7	5814.7	5193.4	3344.4
35°	7081.0	7005.8	6967.4	6866.6	6837.2	6960.0	6844.6	6807.9	6529.4	5966.8	3742.1
37.5°	7161.6	7185.4	7178.1	7051.7	7114.0	7445.6	7594.1	7498.8	7352.2	6782.3	4172.7
40°	7233.1	7249.6	7212.9	7361.4	7539.1	7916.6	8453.6	8296.0	8241.0	7608.7	4772.0
42.5°	7273.4	7260.6	7260.6	7517.1	7786.5	8545.2	9283.7	9179.2	9137.1	8488.4	5464.7
45°	7099.3	6974.7	7108.5	7456.6	7999.1	8854.9	9947.1	10091.8	10031.4	9534.8	6274.6
47.5°	6448.7	6525.7	6600.8	7066.3	7740.7	8759.6	10353.9	10846.9	10958.6	10414.4	6806.1
50°	5464.7	5448.2	5603.9	6190.4	7009.5	8349.1	10275.1	11064.9	11268.3	10678.3	6917.9
52.5°	3974.8	4095.7	4264.3	4847.1	5818.3	7286.2	9258.0	10502.3	10773.6	10353.9	6844.6
55°	2314.5	2180.7	2560.1	3053.0	3969.3	5495.8	7826.8	9309.4	9811.5	9763.8	6474.4
57.5°	927.3	897.9	1028.1	1385.4	2070.8	3406.7	5691.9	7649.1	8453.6	8942.8	5690.1
60°	406.8	397.7	467.3	564.4	846.6	1570.5	3113.5	4757.3	5596.6	6249.0	3916.2
62.5°	293.2	289.5	324.4	359.2	447.1	683.5	1308.4	1916.8	2389.6	2886.3	1753.7
65°	236.4	245.6	269.4	287.7	329.9	379.3	461.8	533.3	654.2	678.0	386.7
67.5°	192.4	199.7	221.7	241.9	249.2	205.2	212.6	186.9	186.9	166.8	133.8
70°	141.1	142.9	168.6	192.4	153.9	82.5	144.8	144.8	130.1	124.6	113.6
72.5°	104.5	106.3	126.4	119.1	60.5	51.3	106.3	117.3	106.3	100.8	91.6
75°	77.0	78.8	66.0	27.5	25.7	33.0	62.3	80.6	77.0	75.1	69.6
77.5°	14.7	11.0	9.2	12.8	18.3	27.5	40.3	49.5	51.3	55.0	51.3
80°	1.8	1.8	5.5	11.0	20.2	29.3	42.1	47.6	49.5	51.3	47.6
82.5°	0.0	1.8	5.5	11.0	20.2	27.5	36.7	42.1	45.8	47.6	45.8
85°	0.0	1.8	3.7	9.2	16.5	20.2	18.3	12.8	11.0	12.8	9.2
87.5°	0.0	0.0	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5
2.5°	1169.2	1161.8	1136.2	1108.7	1084.9	1095.9	1084.9	1075.7	1079.4	1075.7	1072.0
5°	1233.3	1200.3	1145.3	1121.5	1101.4	1099.5	1094.0	1092.2	1094.0	1094.0	1077.5
7.5°	1293.8	1240.6	1182.0	1156.3	1132.5	1134.3	1121.5	1121.5	1119.7	1110.5	1106.9
10°	1385.4	1313.9	1238.8	1193.0	1163.7	1158.2	1145.3	1132.5	1132.5	1132.5	1114.2
12.5°	1486.2	1396.4	1293.8	1240.6	1205.8	1178.3	1158.2	1154.5	1134.3	1130.7	1121.5
15°	1574.2	1460.5	1330.4	1257.1	1213.1	1176.5	1145.3	1125.2	1116.0	1110.5	1103.2
17.5°	1660.3	1515.5	1350.6	1257.1	1209.5	1167.3	1134.3	1116.0	1094.0	1097.7	1083.0
20°	1775.7	1574.2	1356.1	1233.3	1174.7	1134.3	1090.4	1081.2	1068.4	1057.4	1061.0
22.5°	1887.5	1616.3	1339.6	1204.0	1119.7	1072.0	1050.1	1039.1	1033.6	1024.4	1011.6
25°	1988.3	1662.1	1313.9	1150.8	1061.0	1026.2	1006.1	1004.2	991.4	991.4	967.6
27.5°	2090.9	1678.6	1270.0	1088.5	1009.7	989.6	980.4	976.7	971.3	958.4	941.9
30°	2208.2	1684.1	1205.8	1024.4	963.9	941.9	954.8	963.9	940.1	916.3	923.6
32.5°	2305.3	1671.3	1128.9	963.9	930.9	919.9	945.6	954.8	927.3	901.6	888.8
35°	2422.6	1640.1	1053.7	916.3	897.9	919.9	941.9	941.9	887.0	855.8	848.5
37.5°	2600.4	1605.3	984.1	876.0	863.1	908.9	938.3	918.1	832.0	793.5	784.3
40°	2791.0	1583.3	916.3	835.6	844.8	890.6	907.1	844.8	756.8	733.0	725.7
42.5°	3067.7	1539.3	855.8	800.8	828.3	865.0	865.0	753.2	720.2	707.4	705.5
45°	3412.2	1508.2	802.7	771.5	804.5	813.7	784.3	705.5	681.7	678.0	679.9
47.5°	3580.8	1447.7	747.7	736.7	760.5	762.3	685.4	667.0	646.9	641.4	637.7
50°	3555.1	1339.6	676.2	690.9	723.9	705.5	624.9	628.6	610.2	608.4	599.2
52.5°	3375.6	1169.2	604.7	639.6	676.2	623.1	575.4	571.8	571.8	547.9	538.8
55°	2992.6	941.9	518.6	562.6	606.6	524.1	511.3	507.6	498.5	476.5	471.0
57.5°	2369.5	690.9	390.3	438.0	514.9	445.3	443.5	427.0	403.2	386.7	386.7
60°	1409.2	397.7	245.6	267.6	340.9	361.0	401.3	394.0	353.7	328.0	320.7
62.5°	643.2	205.2	155.8	159.4	183.3	234.6	315.2	364.7	307.9	263.9	260.2
65°	216.2	152.1	128.3	122.8	126.4	141.1	188.8	258.4	245.6	203.4	196.1
67.5°	131.9	135.6	120.9	111.8	111.8	110.0	108.1	117.3	144.8	141.1	142.9
70°	113.6	124.6	111.8	100.8	97.1	91.6	77.0	64.1	55.0	64.1	67.8
72.5°	91.6	99.0	95.3	86.1	77.0	69.6	55.0	42.1	31.2	27.5	27.5
75°	67.8	73.3	77.0	66.0	58.6	49.5	40.3	27.5	16.5	11.0	11.0
77.5°	49.5	55.0	56.8	51.3	44.0	34.8	25.7	18.3	9.2	3.7	3.7
80°	42.1	49.5	55.0	51.3	45.8	33.0	23.8	12.8	7.3	1.8	1.8
82.5°	40.3	49.5	55.0	49.5	44.0	31.2	23.8	14.7	5.5	1.8	1.8
85°	9.2	12.8	16.5	20.2	23.8	23.8	18.3	11.0	5.5	1.8	1.8
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	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)