

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: P452066

Luminaire Tested: **GALN-SA3A-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11636 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

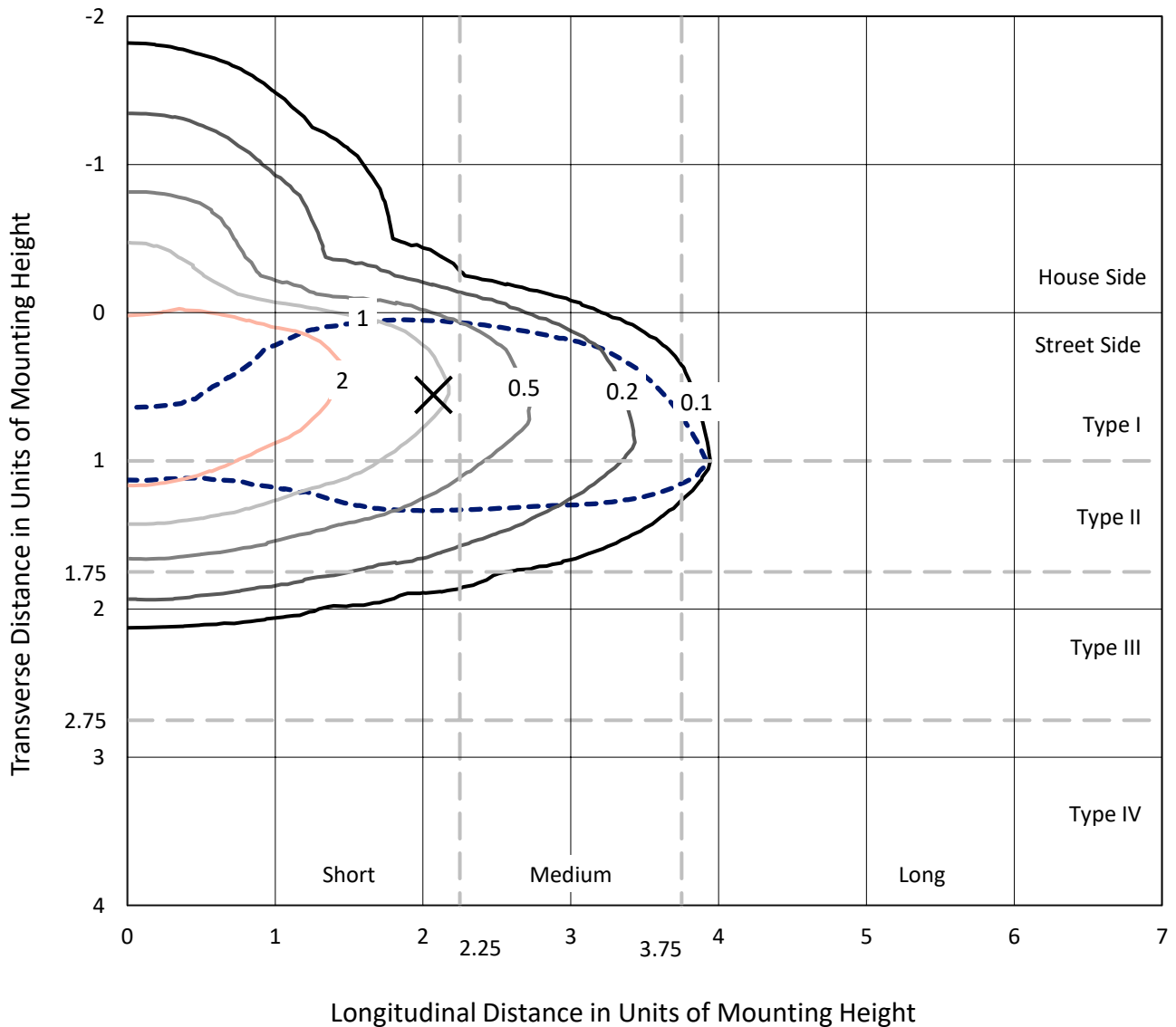
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

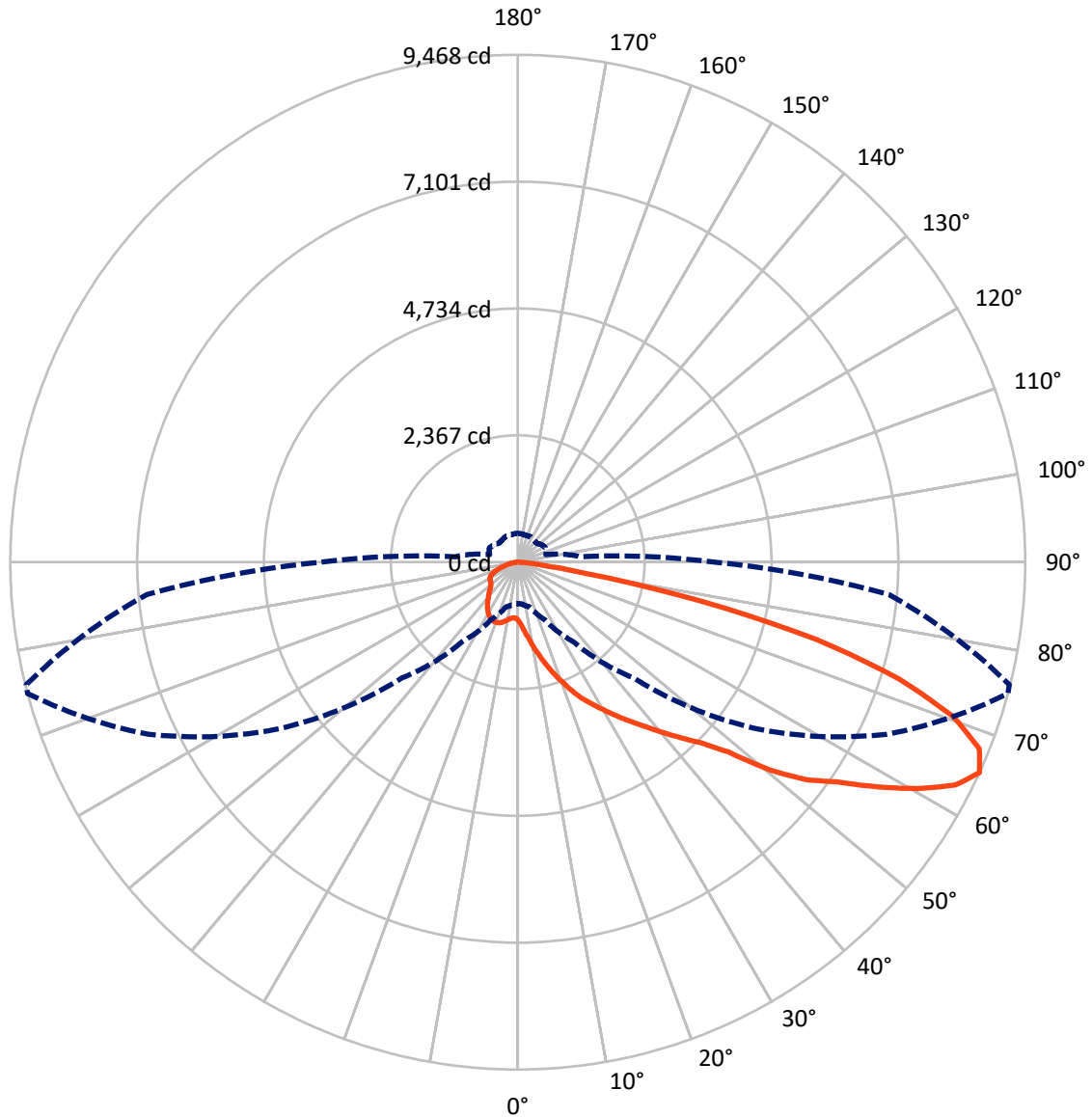
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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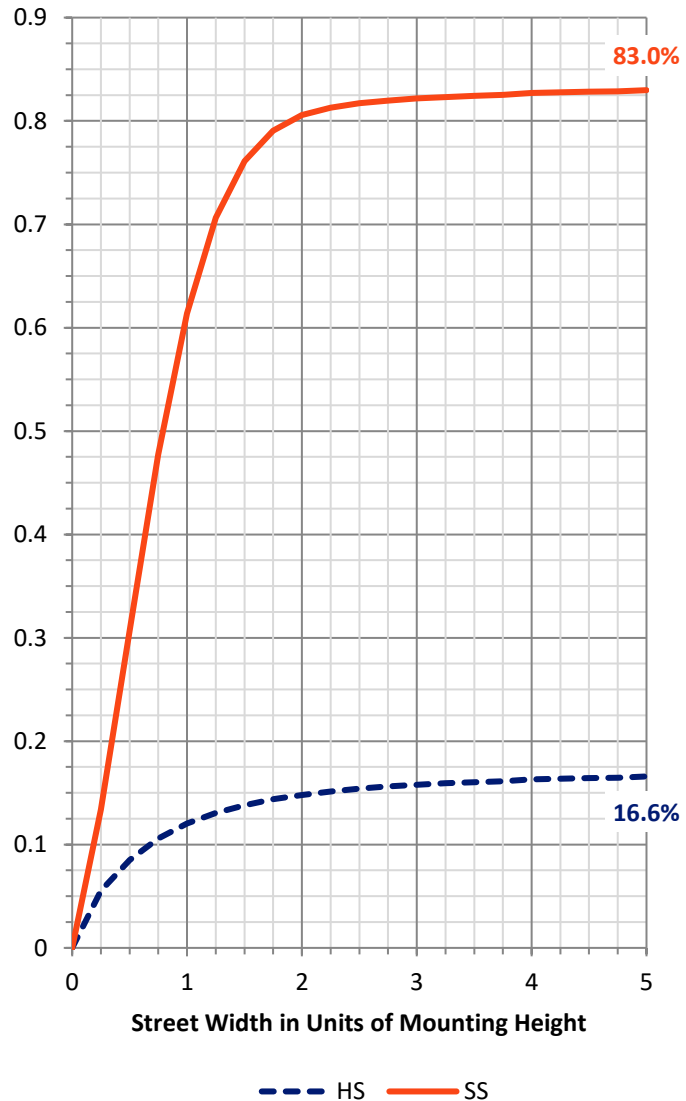
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1956.2	0.0	1956.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9679.8	0.0	9679.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	11636.0	0.0	11636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.1
10°-20°	514.5	4.4
20°-30°	993.8	8.5
30°-40°	1614.3	13.9
40°-50°	2220.6	19.1
50°-60°	2621.8	22.5
60°-70°	2297.1	19.7
70°-80°	1096.6	9.4
80°-90°	145.9	1.3
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°	11636.0	100.0
0°-180°	11636.0	100.0

Coefficient of Utilization



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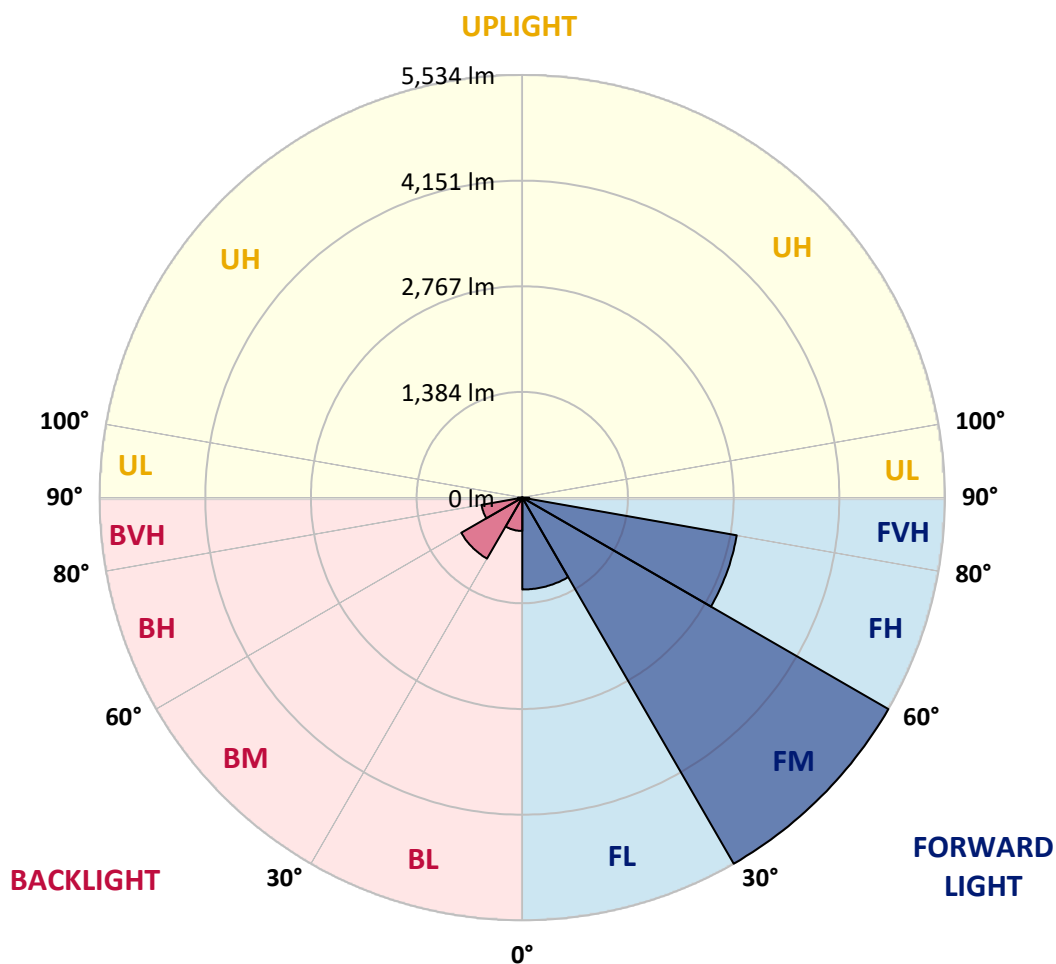
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1203.0	10.3			
FM	(30°-60°)	5534.3	47.6			
FH	(60°-80°)	2851.3	24.5			G2/5000
FVH	(80°-90°)	91.2	0.8			G1/100
BL	(0°-30°)	436.7	3.8	B1/500		
BM	(30°-60°)	922.3	7.9	B1/1000		
BH	(60°-80°)	542.4	4.7	B2/1000		G2/1000
BVH	(80°-90°)	54.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1
2.5°	1436.5	1427.0	1416.9	1389.1	1359.5	1326.0	1278.0	1232.0	1170.8	1168.9	1123.4
5°	1834.7	1828.4	1783.6	1757.7	1688.9	1597.4	1519.8	1399.2	1287.5	1274.3	1185.9
7.5°	2200.8	2176.1	2159.1	2112.4	2044.2	1926.9	1776.6	1613.8	1427.0	1409.3	1262.9
10°	2476.6	2474.0	2465.2	2424.8	2373.7	2256.9	2090.3	1856.8	1603.7	1569.0	1356.3
12.5°	2682.9	2684.8	2683.6	2682.9	2646.3	2547.3	2366.7	2120.6	1782.3	1757.7	1464.2
15°	2818.6	2837.6	2845.1	2876.7	2879.9	2813.6	2658.3	2375.6	1983.7	1947.0	1580.4
17.5°	2908.3	2917.7	2953.1	3006.7	3050.3	3038.3	2900.1	2611.6	2189.4	2128.2	1700.9
20°	2994.1	3010.5	3037.6	3110.9	3187.9	3223.2	3126.0	2853.4	2393.3	2354.1	1834.1
22.5°	3172.7	3196.1	3205.5	3242.8	3308.4	3370.9	3326.7	3085.0	2616.7	2563.7	1975.4
25°	3475.0	3499.6	3473.1	3464.3	3485.7	3516.7	3507.2	3303.4	2827.5	2751.7	2109.2
27.5°	3868.8	3872.0	3820.2	3771.0	3718.0	3702.2	3673.2	3497.1	3010.5	2947.4	2243.7
30°	4291.7	4276.6	4190.7	4101.7	4012.1	3923.8	3840.4	3683.9	3214.4	3141.8	2375.6
32.5°	4684.3	4676.1	4580.8	4442.5	4291.1	4207.8	4039.3	3872.6	3432.7	3362.7	2511.3
35°	4978.4	4990.4	4885.6	4734.8	4569.4	4495.6	4282.9	4070.8	3658.7	3582.3	2659.0
37.5°	5187.3	5181.0	5088.2	4957.6	4812.4	4748.0	4567.5	4287.3	3901.7	3828.5	2820.5
40°	5261.8	5258.0	5189.2	5093.9	5001.7	4979.0	4865.4	4520.8	4180.0	4094.2	3014.9
42.5°	5214.4	5222.6	5177.2	5151.3	5134.3	5150.7	5161.4	4826.9	4483.6	4404.7	3225.7
45°	5069.3	5064.8	5058.5	5100.8	5196.8	5304.7	5454.3	5116.0	4813.7	4750.5	3508.5
47.5°	4809.9	4841.4	4857.2	4974.0	5183.5	5439.1	5791.3	5503.5	5292.7	5237.8	3939.5
50°	4447.0	4472.2	4565.6	4773.3	5085.7	5489.6	6120.7	6137.1	6091.7	5988.8	4407.8
52.5°	3880.2	3919.3	4111.8	4492.4	4885.0	5468.8	6320.2	6680.5	6740.5	6663.5	4869.2
55°	3245.9	3300.8	3504.1	4003.3	4608.5	5355.2	6457.8	6995.5	7234.7	7163.4	5313.5
57.5°	2624.9	2682.9	2891.9	3375.3	4126.3	5104.0	6548.0	7346.4	7907.5	7814.7	5866.4
60°	1967.2	2027.8	2207.1	2705.0	3439.7	4613.0	6486.8	7650.6	8579.6	8539.9	6419.9
62.5°	1269.2	1336.1	1492.0	1904.1	2643.8	3942.1	6159.2	7818.5	9161.5	9113.6	6823.8
65°	773.1	780.7	866.5	1182.1	1809.5	3052.2	5410.1	7595.7	9468.3	9453.7	6946.9
67.5°	499.9	511.8	551.0	708.1	1084.9	2120.0	4325.8	6860.4	9289.0	9284.0	6692.5
70°	422.2	426.0	443.7	477.8	630.5	1285.6	3037.6	5688.4	8608.0	8608.0	6081.0
72.5°	377.4	382.5	388.8	399.5	450.0	728.3	1812.6	4428.0	7432.2	7481.5	5175.9
75°	342.7	341.4	345.2	347.1	383.7	475.9	937.2	3275.0	5749.6	5651.2	3748.3
77.5°	293.5	295.4	293.5	301.7	338.9	362.3	475.9	2197.6	3484.5	3357.0	1881.4
80°	241.1	244.2	247.4	252.5	289.7	275.2	285.9	1001.6	1288.8	1261.6	581.3
82.5°	181.1	185.6	190.6	202.6	227.8	181.8	180.5	427.9	465.1	426.0	214.0
85°	73.2	86.5	130.6	142.6	143.3	99.7	111.1	178.6	190.0	185.6	83.9
87.5°	17.0	20.2	42.3	63.7	58.7	37.2	41.0	58.1	66.3	61.2	28.4
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°	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1	1081.1
2.5°	1102.6	1080.5	1042.6	1013.6	992.8	974.5	963.1	956.2	953.6	953.0	953.6
5°	1139.8	1100.7	1040.7	1002.9	982.0	970.1	963.1	962.5	963.1	963.7	961.8
7.5°	1190.9	1134.8	1056.5	1021.2	1005.4	996.6	993.4	992.1	992.8	992.1	992.1
10°	1259.1	1182.1	1087.4	1050.8	1037.6	1027.5	1022.4	1019.3	1016.8	1014.2	1013.0
12.5°	1334.2	1234.5	1120.9	1085.5	1066.6	1050.8	1039.5	1031.3	1025.6	1019.9	1018.6
15°	1418.2	1290.0	1158.1	1108.9	1081.8	1058.4	1038.8	1025.6	1015.5	1007.3	1006.7
17.5°	1498.3	1342.4	1183.4	1119.6	1079.9	1047.1	1021.2	1002.9	990.2	979.5	978.3
20°	1584.1	1392.3	1194.7	1112.7	1060.9	1021.2	987.1	965.0	950.5	938.5	936.6
22.5°	1670.6	1434.6	1193.5	1090.6	1028.1	981.4	945.4	922.1	905.0	893.1	888.6
25°	1753.3	1468.6	1177.7	1055.3	982.7	934.1	897.5	876.0	860.9	846.3	846.3
27.5°	1827.8	1488.8	1148.0	1012.3	936.0	884.8	855.8	836.3	822.4	812.9	807.2
30°	1901.0	1498.3	1107.6	958.1	886.7	843.2	819.8	808.5	795.9	785.1	783.9
32.5°	1966.6	1496.4	1057.1	905.0	840.0	809.1	799.6	790.8	777.6	762.4	758.6
35°	2030.4	1483.8	997.2	847.0	800.9	788.9	791.4	778.8	754.8	735.9	732.7
37.5°	2099.8	1461.1	931.6	799.6	768.1	779.4	785.8	758.0	718.9	689.2	682.3
40°	2179.9	1435.2	863.4	752.3	742.2	770.6	770.6	719.5	665.8	647.5	642.5
42.5°	2274.0	1413.7	806.6	712.5	720.8	749.2	746.0	668.4	646.3	636.8	634.3
45°	2422.9	1406.2	747.9	677.8	703.1	723.9	698.0	650.7	638.1	630.5	628.0
47.5°	2658.3	1415.0	696.1	652.0	682.9	698.7	644.4	638.7	629.9	619.1	617.9
50°	2876.7	1406.8	659.5	637.4	665.2	668.4	622.3	624.2	619.1	607.2	604.6
52.5°	3055.3	1380.9	636.2	629.9	650.1	615.4	601.5	608.4	606.5	591.4	588.8
55°	3251.6	1365.1	624.8	629.9	640.0	569.3	581.9	592.0	589.5	578.7	578.1
57.5°	3489.5	1368.3	616.6	631.8	629.9	545.9	562.3	574.3	573.7	570.5	570.5
60°	3733.2	1369.6	604.0	631.1	617.9	527.6	542.1	559.2	560.4	562.3	562.3
62.5°	3813.9	1314.7	579.4	619.8	591.4	510.0	523.2	546.6	545.3	550.3	551.0
65°	3663.1	1162.5	542.8	593.9	557.3	497.3	508.7	530.2	523.2	536.5	539.0
67.5°	3334.3	961.8	486.0	547.2	519.4	484.1	499.2	507.4	494.8	520.7	521.3
70°	2881.8	751.0	414.0	480.9	476.5	470.2	491.7	479.0	461.4	492.9	486.6
72.5°	2409.7	573.7	330.7	393.2	419.1	449.4	478.4	442.4	417.8	427.3	415.9
75°	1810.1	424.1	265.7	308.0	349.0	419.7	466.4	398.2	360.4	351.5	349.0
77.5°	922.7	277.1	198.8	230.4	261.9	379.3	450.0	346.5	298.5	284.6	278.3
80°	329.5	172.3	140.1	159.0	176.7	326.3	393.2	286.5	231.6	229.1	231.6
82.5°	152.7	111.1	94.0	104.1	104.8	217.7	299.8	214.0	176.1	267.6	225.9
85°	65.6	55.5	53.0	51.8	48.0	97.2	168.5	114.9	179.2	80.2	73.8
87.5°	19.6	22.1	19.6	14.5	10.7	10.7	17.0	6.3	4.4	3.2	3.2
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)