

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: P450429

Luminaire Tested: **GALN-SA1B-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4806 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

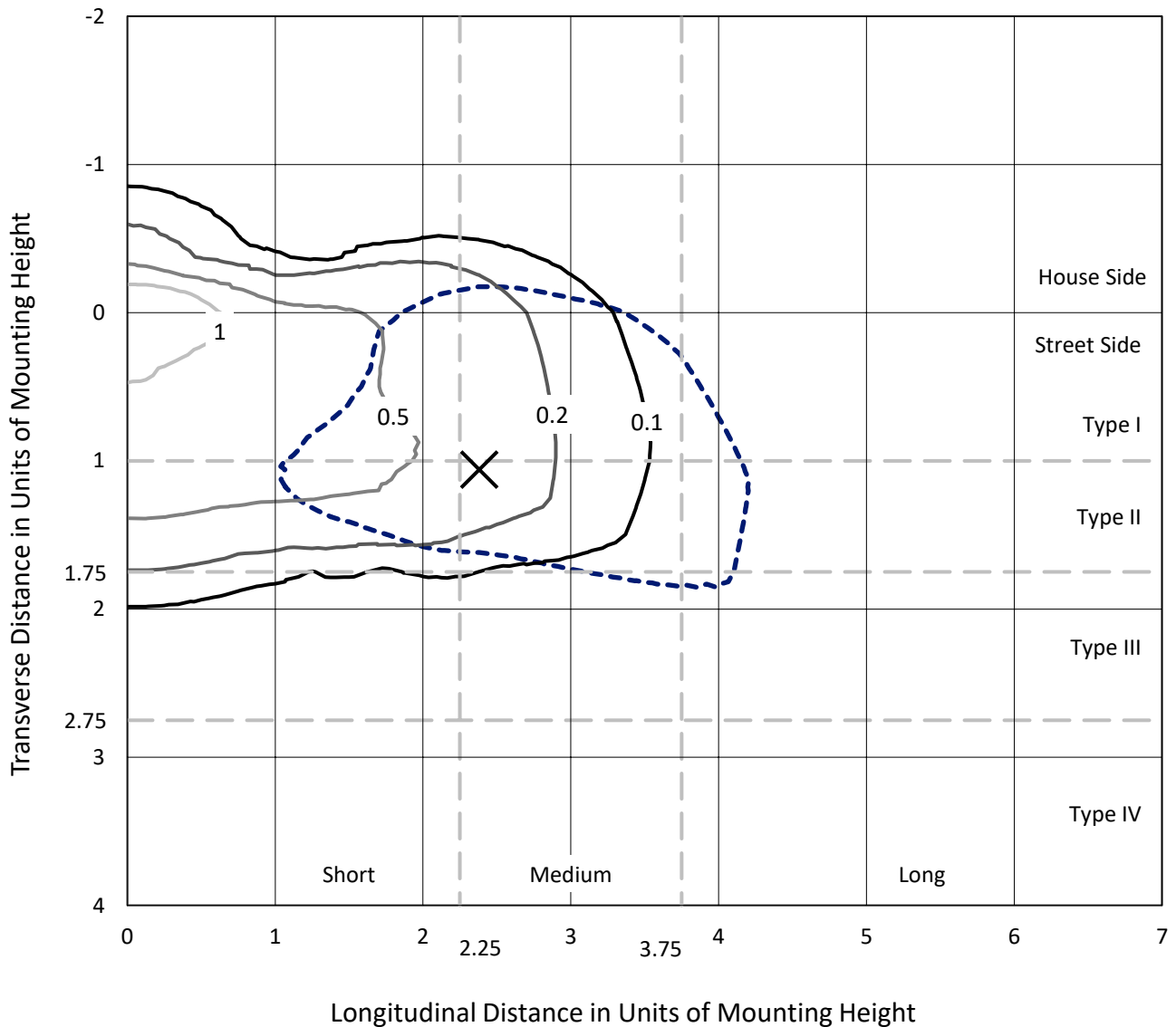
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

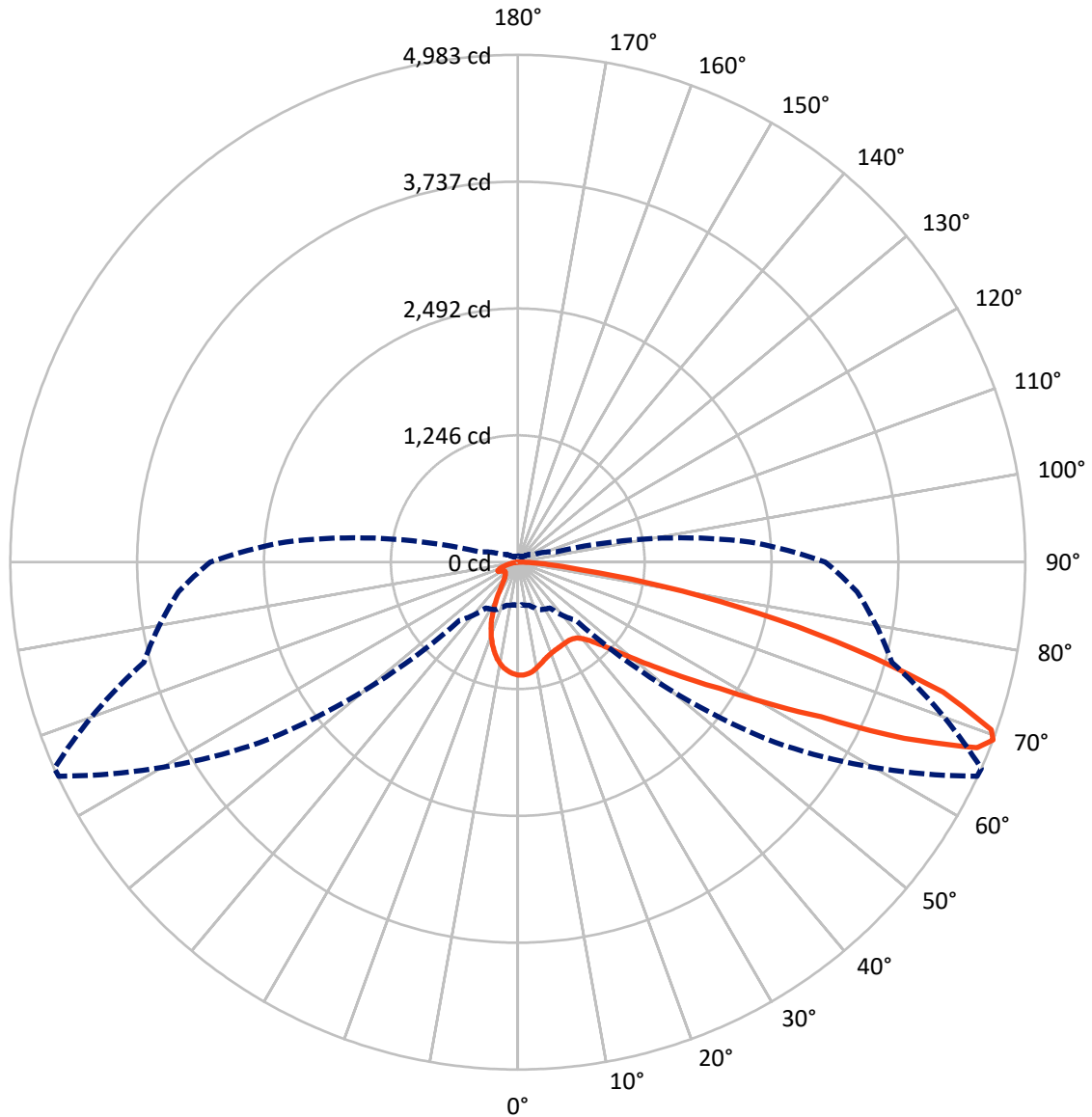
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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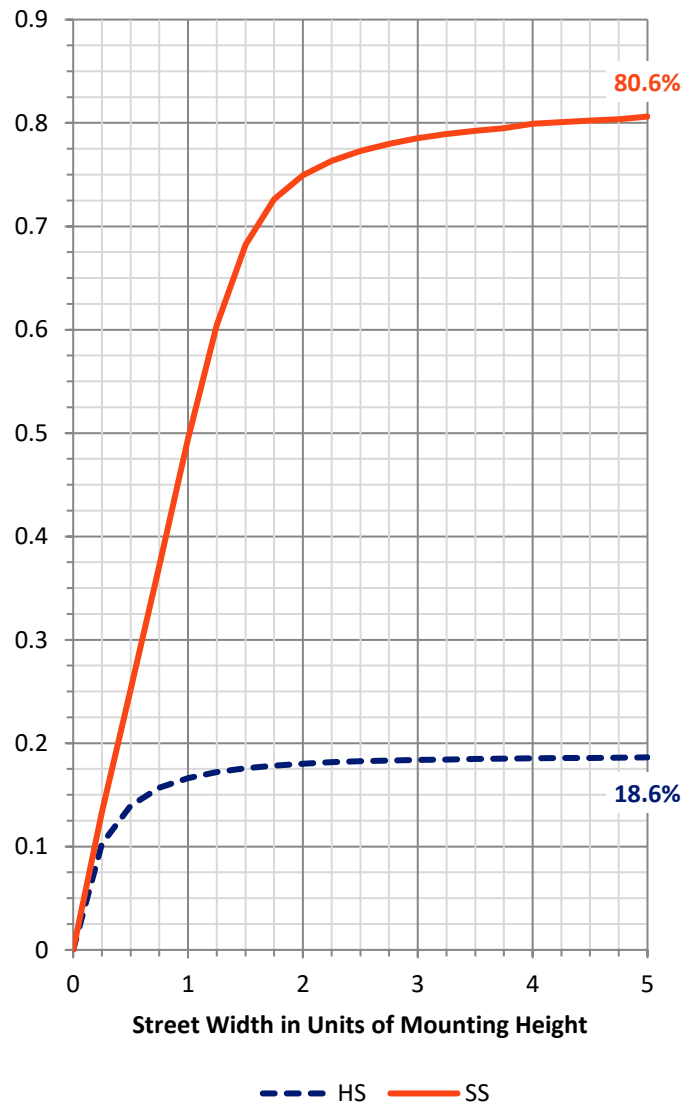
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	903.8	0.0	903.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3902.2	0.0	3902.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	4806.0	0.0	4806.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	2.0
10°-20°	228.6	4.8
20°-30°	311.2	6.5
30°-40°	418.2	8.7
40°-50°	624.4	13.0
50°-60°	993.3	20.7
60°-70°	1221.7	25.4
70°-80°	794.9	16.5
80°-90°	117.4	2.4
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°	4806.0	100.0
0°-180°	4806.0	100.0



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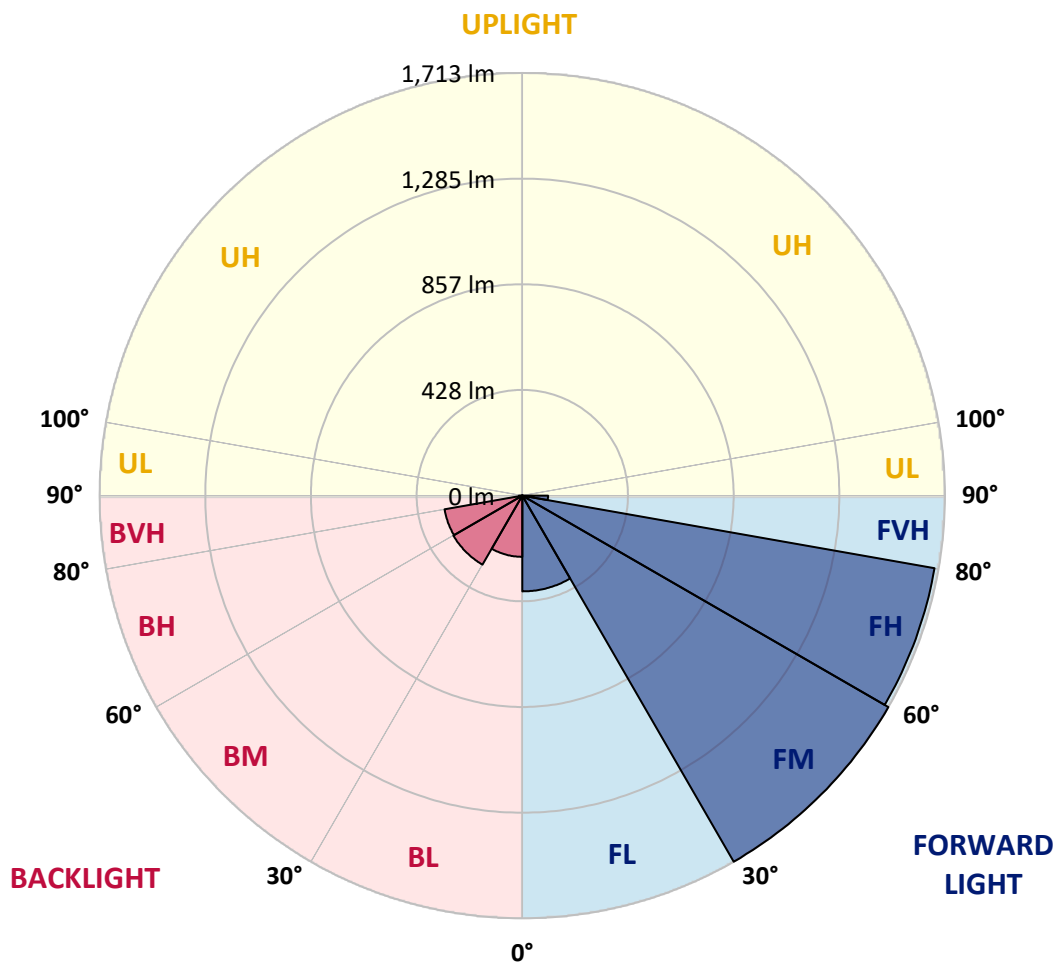
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.1	8.1			
FM	(30°-60°)	1713.2	35.6			
FH	(60°-80°)	1696.5	35.3			G1/1800
FVH	(80°-90°)	104.4	2.2			G2/225
BL	(0°-30°)	248.1	5.2	B1/500		
BM	(30°-60°)	322.7	6.7	B1/1000		
BH	(60°-80°)	320.0	6.7	B1/500		G1/500
BVH	(80°-90°)	13.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8
2.5°	1071.0	1075.2	1080.0	1085.4	1095.5	1101.1	1105.0	1109.6	1110.1	1112.5	1110.6
5°	991.9	997.0	1004.2	1014.3	1029.5	1053.1	1077.6	1097.6	1100.0	1111.2	1114.4
7.5°	925.9	928.9	934.7	950.9	972.5	998.9	1034.5	1075.0	1080.8	1107.4	1116.8
10°	872.2	875.1	882.0	898.8	920.1	953.1	992.2	1045.4	1050.2	1096.0	1117.3
12.5°	832.0	834.6	842.1	858.6	883.1	914.0	957.1	1013.5	1020.4	1080.8	1112.2
15°	801.4	806.4	812.6	826.1	851.9	881.7	923.5	984.2	989.8	1064.9	1108.8
17.5°	788.3	790.7	795.0	807.5	826.4	855.7	897.7	961.3	968.0	1053.7	1108.0
20°	788.9	791.3	792.1	799.0	812.6	837.8	879.4	943.2	951.2	1043.8	1109.3
22.5°	807.0	807.2	804.3	801.9	807.2	828.3	866.3	929.7	939.0	1039.6	1110.4
25°	834.9	839.7	835.4	824.3	814.4	824.5	861.3	922.2	931.0	1033.5	1109.0
27.5°	880.2	881.0	877.5	862.3	836.8	829.3	859.1	916.6	924.1	1028.9	1102.4
30°	940.8	938.4	935.2	918.5	878.3	847.7	863.7	911.6	919.3	1022.3	1094.4
32.5°	1002.3	1009.8	1006.8	987.1	935.0	883.3	878.3	911.0	917.4	1017.2	1085.6
35°	1067.5	1071.0	1084.8	1074.7	1021.2	941.1	905.7	919.3	924.3	1017.5	1079.5
37.5°	1118.6	1127.9	1160.4	1169.2	1118.9	1017.5	950.1	942.7	944.8	1030.5	1081.9
40°	1180.4	1196.3	1238.1	1274.1	1241.1	1116.8	1025.7	986.1	988.7	1061.9	1097.6
42.5°	1258.6	1269.8	1326.0	1374.7	1369.3	1248.0	1117.3	1057.1	1058.5	1124.5	1141.5
45°	1350.2	1366.1	1429.2	1502.4	1514.9	1396.5	1249.6	1164.7	1163.9	1221.6	1223.5
47.5°	1467.3	1477.1	1539.7	1619.5	1670.1	1583.1	1410.1	1319.0	1310.5	1363.2	1348.0
50°	1575.1	1590.5	1637.9	1725.2	1851.1	1801.6	1621.1	1519.2	1499.2	1548.5	1522.9
52.5°	1620.3	1636.5	1676.5	1784.8	2006.2	2084.2	1889.1	1757.9	1724.6	1762.4	1753.1
55°	1541.8	1562.8	1600.1	1731.8	2074.4	2410.2	2250.6	2033.9	2009.7	1993.5	1996.1
57.5°	1330.7	1350.7	1401.0	1546.3	1992.9	2646.8	2766.6	2388.7	2336.8	2262.0	2274.8
60°	1013.0	1025.5	1051.6	1212.6	1751.5	2708.3	3352.7	2837.1	2804.1	2529.5	2538.5
62.5°	719.4	733.5	751.6	832.0	1282.3	2535.1	3811.5	3463.4	3345.5	2806.5	2797.8
65°	584.2	574.6	596.4	634.0	752.4	1964.7	3914.8	4332.6	4170.3	3171.4	3049.5
67.5°	480.4	470.3	491.8	558.6	572.2	1140.4	3542.7	4896.9	4864.4	3568.3	3305.3
69°	425.3	420.0	438.9	515.0	549.3	809.9	3086.3	4975.4	4983.1	3802.2	3344.7
70°	383.3	385.4	403.7	492.9	539.0	667.8	2637.8	4867.1	4932.5	3919.0	3302.1
72.5°	282.1	286.6	312.2	408.3	529.1	566.6	1569.7	4251.2	4367.0	3926.0	3020.8
75°	197.2	195.1	217.7	307.4	499.8	561.6	921.9	3287.7	3418.9	3393.4	2538.3
77.5°	129.1	132.5	150.6	217.2	420.5	557.3	601.0	2332.5	2417.7	2269.4	1501.3
80°	91.0	90.8	100.9	148.2	311.9	535.5	492.1	1470.2	1448.6	891.9	445.3
82.5°	52.2	55.9	67.6	104.3	208.7	471.3	452.7	703.2	642.0	254.2	150.4
85°	29.0	30.3	40.2	63.1	121.9	355.0	395.2	319.9	301.8	106.2	64.7
87.5°	9.3	10.1	16.8	31.9	55.4	167.7	223.8	147.7	136.3	38.3	26.1
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°	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8	1109.8
2.5°	1111.4	1114.6	1106.1	1097.9	1090.4	1080.0	1070.7	1063.0	1057.7	1056.9	1054.2
5°	1115.2	1115.4	1099.2	1077.4	1056.1	1032.7	1008.4	991.1	974.9	965.9	961.3
7.5°	1117.8	1115.4	1086.2	1050.8	1009.8	967.2	924.6	890.5	864.2	853.8	857.8
10°	1116.8	1109.3	1066.5	1009.8	950.1	886.5	825.3	777.4	733.5	710.9	711.4
12.5°	1110.9	1098.7	1037.2	963.7	876.2	791.0	697.3	632.6	581.8	551.7	542.4
15°	1105.8	1084.6	1002.8	901.2	792.3	670.7	556.5	476.7	434.1	410.4	410.1
17.5°	1100.5	1071.0	965.3	834.9	696.0	539.5	419.7	358.8	338.8	341.2	337.2
20°	1094.9	1055.0	926.2	761.2	578.6	402.4	314.3	289.6	295.2	306.1	307.7
22.5°	1088.5	1038.0	884.1	680.0	455.1	302.9	255.0	251.2	265.6	282.6	285.0
25°	1078.7	1016.7	831.2	595.1	351.0	244.1	223.3	226.0	240.1	254.4	256.0
27.5°	1064.9	990.3	777.7	489.2	263.8	209.5	204.1	207.6	214.5	223.3	225.4
30°	1046.2	960.5	716.2	397.6	211.3	192.2	190.0	191.9	195.9	199.6	200.7
32.5°	1027.6	931.8	654.2	304.5	188.4	180.7	178.6	178.6	178.6	179.1	179.4
35°	1010.3	904.6	587.7	237.1	176.5	171.7	168.7	165.5	165.0	163.1	163.1
37.5°	1000.7	879.9	516.9	198.5	167.7	164.2	160.2	154.9	152.0	152.2	151.7
40°	1002.6	863.7	452.5	176.7	160.5	156.8	150.6	144.5	142.7	142.7	142.1
42.5°	1023.6	858.3	390.7	165.3	153.6	149.3	141.6	136.0	134.9	134.7	135.2
45°	1072.0	871.4	335.3	157.8	147.7	141.3	133.6	128.5	127.5	127.5	127.2
47.5°	1166.5	913.7	295.7	153.0	143.5	135.2	127.2	122.2	120.3	119.8	119.8
50°	1313.4	1005.5	266.1	148.8	138.1	129.6	121.4	115.5	112.6	112.3	112.0
52.5°	1517.6	1148.7	254.7	145.6	132.3	123.8	114.7	109.1	105.4	104.6	104.1
55°	1756.3	1348.6	270.4	143.2	126.2	117.1	107.8	101.9	98.5	96.9	96.6
57.5°	2032.8	1588.6	330.0	140.0	120.6	109.9	100.9	95.0	91.3	89.4	88.9
60°	2281.2	1835.4	434.1	138.1	115.8	102.2	92.9	87.6	84.1	82.2	82.0
62.5°	2554.0	2070.6	558.4	143.2	113.6	94.7	85.4	80.6	77.7	75.9	75.9
65°	2845.4	2306.2	640.6	160.2	116.8	88.9	77.4	73.5	70.8	69.5	69.2
67.5°	3041.8	2387.6	527.8	177.8	124.8	82.5	69.7	66.5	64.9	63.6	63.6
69°	3020.5	2284.6	389.4	182.3	127.2	79.3	65.5	63.1	60.9	60.4	59.9
70°	2953.2	2167.2	326.3	179.4	125.4	76.4	62.8	59.9	58.0	57.5	57.2
72.5°	2630.3	1879.5	243.0	156.0	106.7	66.3	55.6	53.0	51.4	50.6	50.6
75°	2185.3	1536.2	189.8	124.0	83.6	55.9	47.6	45.5	44.2	43.6	43.4
77.5°	1224.8	857.8	136.3	97.1	63.3	45.2	39.9	38.1	36.7	36.2	36.2
80°	341.2	245.1	80.1	64.1	43.1	34.3	31.7	30.3	28.5	27.1	27.9
82.5°	128.5	106.2	45.8	38.6	27.4	22.9	22.1	21.0	20.2	18.4	18.4
85°	62.5	51.6	29.3	20.5	15.2	12.0	11.4	10.9	10.4	9.0	9.3
87.5°	21.6	22.9	12.8	7.5	4.5	2.9	2.4	1.3	1.3	1.3	1.3
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)