

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: P526242

Luminaire Tested: **GALN-SA1A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3135 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

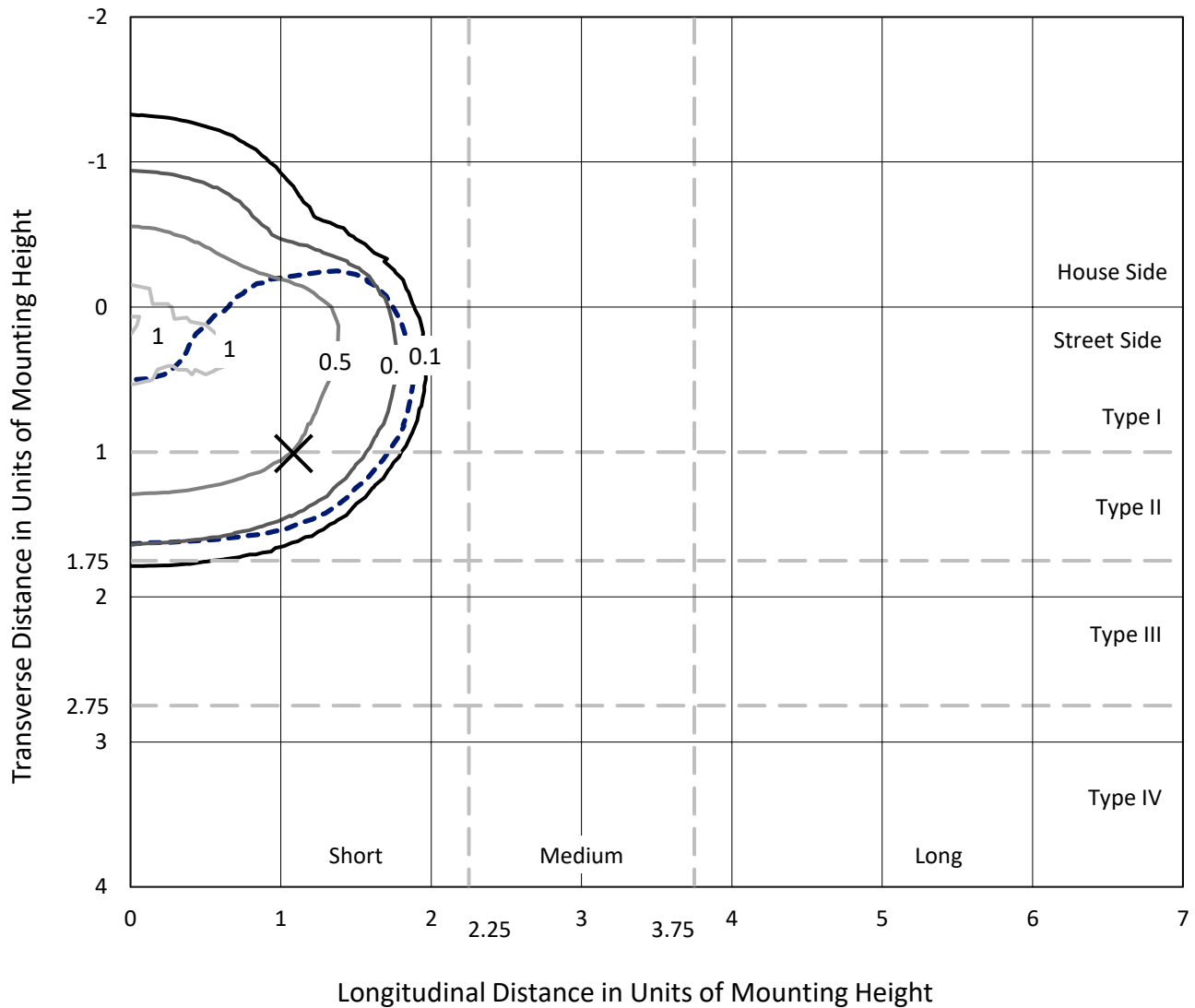


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Iso-Footcandle Lines of Horizontal Illumination

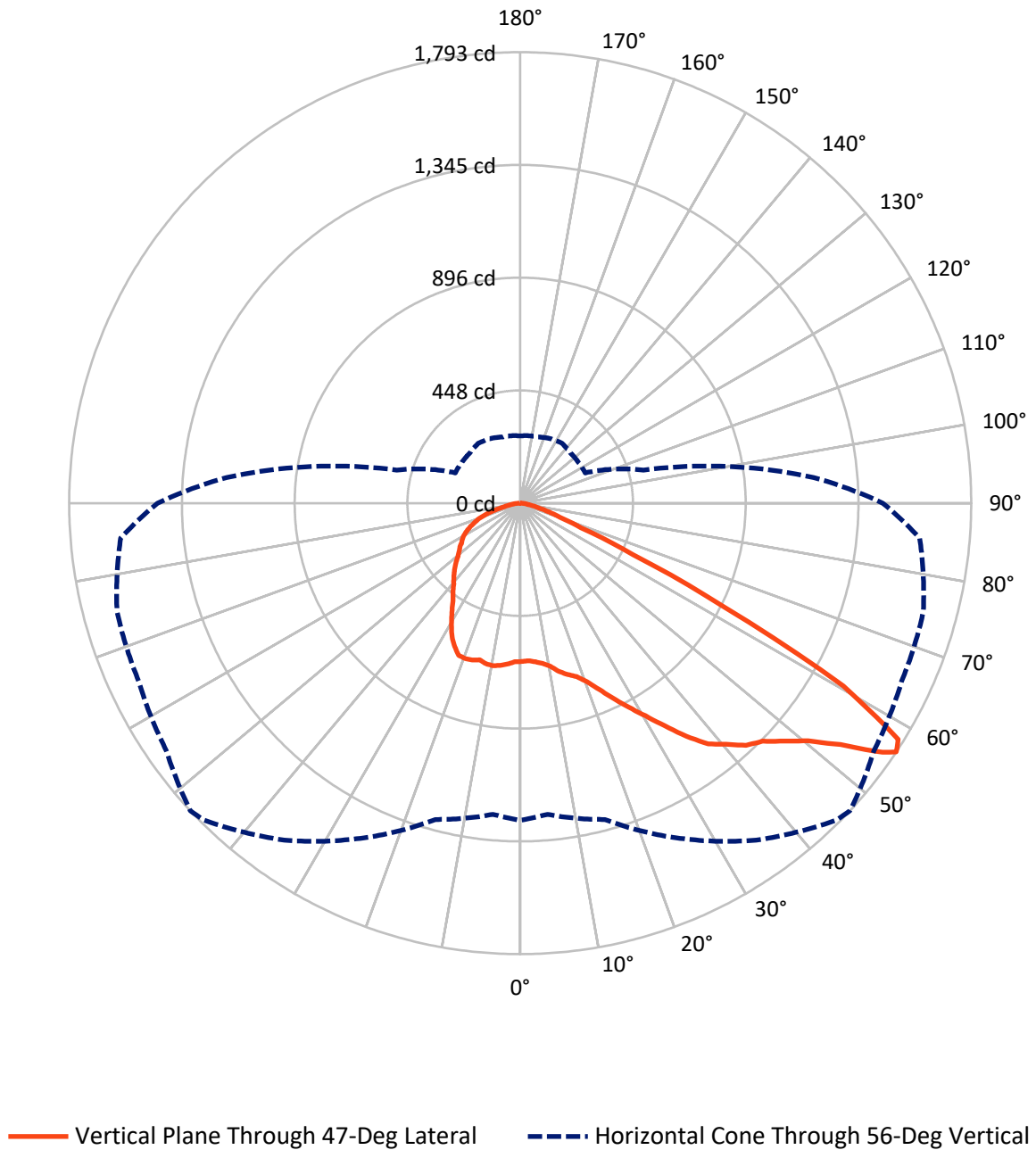
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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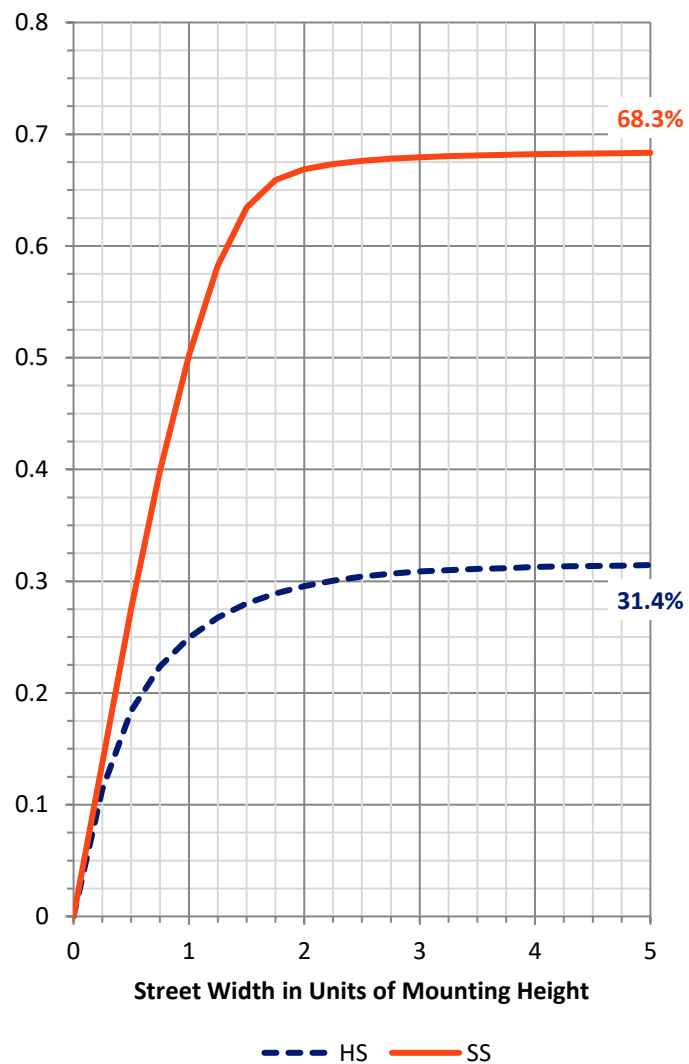
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.5	0.0	993.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	2141.6	0.0	2141.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	3135.0	0.0	3135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	2.0
10°-20°	193.6	6.2
20°-30°	342.2	10.9
30°-40°	513.9	16.4
40°-50°	705.3	22.5
50°-60°	840.3	26.8
60°-70°	359.6	11.5
70°-80°	101.8	3.2
80°-90°	17.1	0.5
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°	3135.0	100.0
0°-180°	3135.0	100.0

Coefficient of Utilization



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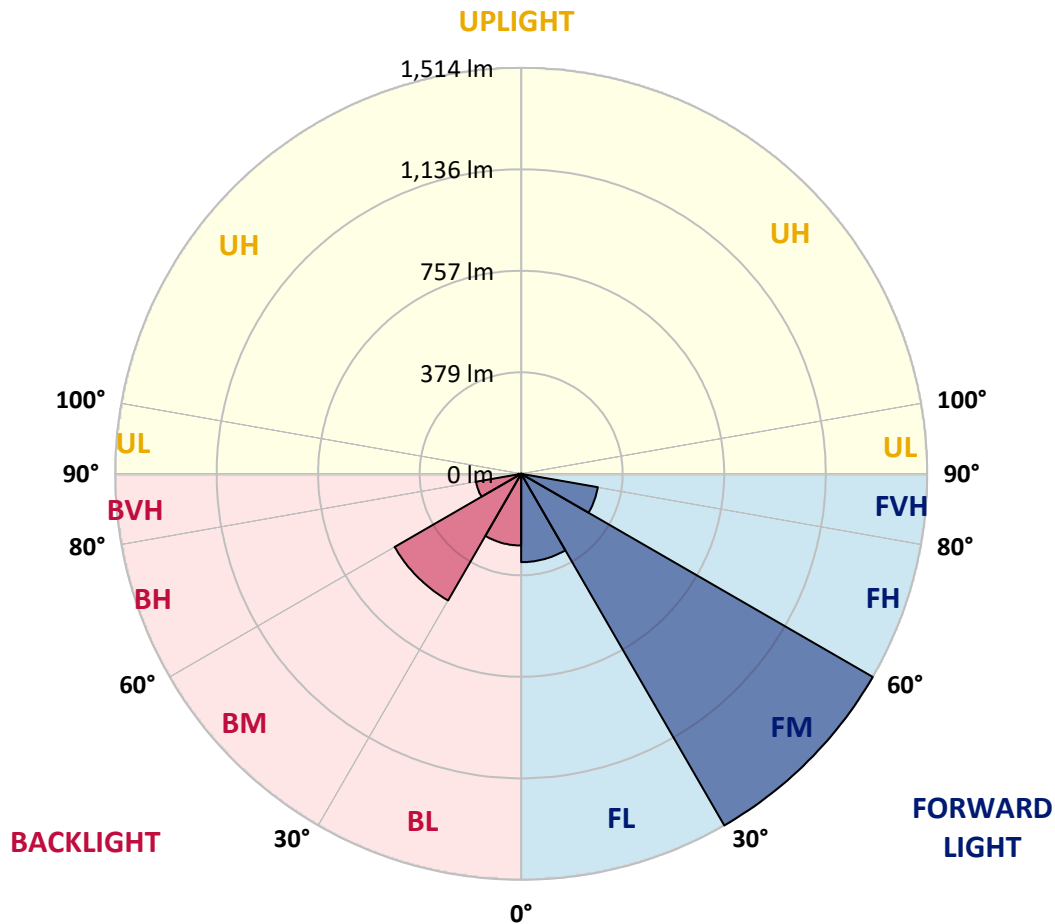
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.6	10.5			
FM	(30°-60°)	1514.3	48.3			
FH	(60°-80°)	290.4	9.3			G0/660
FVH	(80°-90°)	7.3	0.2			G0/10
BL	(0°-30°)	267.5	8.5	B1/500		
BM	(30°-60°)	545.2	17.4	B1/1000		
BH	(60°-80°)	170.9	5.5	B1/500		G1/500
BVH	(80°-90°)	9.9	0.3			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7
2.5°	627.3	626.1	625.3	631.7	629.3	629.7	627.3	629.7	631.3	627.7	632.9
5°	626.1	629.7	626.5	628.5	633.7	632.1	633.7	638.5	637.3	636.1	634.5
7.5°	637.3	637.7	640.1	640.9	642.5	640.9	643.3	647.7	646.5	639.7	640.5
10°	653.3	654.1	654.5	658.9	661.7	662.1	659.3	655.3	654.9	664.1	657.7
12.5°	671.7	669.7	674.5	676.1	679.3	682.9	686.5	678.1	683.3	683.7	676.1
15°	698.5	700.5	694.9	694.9	696.1	696.5	706.5	702.5	701.7	697.3	700.5
17.5°	738.5	724.9	724.5	718.9	718.1	721.3	724.9	728.1	738.9	730.1	712.9
20°	767.7	770.9	759.3	752.5	753.7	760.9	757.3	771.7	779.3	764.9	748.1
22.5°	819.2	808.4	811.2	796.1	797.3	804.9	804.5	819.2	823.6	800.9	776.5
25°	854.0	851.2	853.6	841.6	843.2	849.2	858.8	883.2	876.0	850.8	794.5
27.5°	904.8	899.2	897.2	892.8	891.2	907.2	918.4	944.4	939.2	902.4	826.4
30°	956.8	953.2	955.2	937.2	943.6	977.6	980.8	1016.4	1014.0	949.2	862.0
32.5°	992.8	994.8	998.4	988.4	1016.8	1043.9	1054.7	1095.1	1097.1	1029.6	930.8
35°	1050.7	1043.9	1045.9	1057.5	1070.7	1120.3	1137.9	1164.7	1181.5	1113.9	996.8
37.5°	1087.1	1094.3	1085.9	1104.3	1138.7	1198.3	1214.3	1241.9	1259.5	1197.1	1086.7
40°	1143.9	1132.3	1138.3	1151.5	1186.7	1264.3	1259.9	1288.2	1293.8	1267.8	1170.7
42.5°	1205.1	1199.5	1191.1	1221.1	1250.7	1307.0	1315.8	1302.6	1331.0	1337.0	1290.6
45°	1278.2	1285.0	1286.2	1287.0	1313.0	1362.2	1350.2	1338.6	1371.4	1415.0	1365.0
47.5°	1346.2	1324.6	1340.2	1361.8	1398.6	1399.0	1413.0	1385.4	1420.2	1459.0	1432.2
50°	1369.0	1358.6	1379.4	1420.2	1477.0	1483.0	1484.6	1445.4	1463.4	1494.2	1455.4
52.5°	1360.2	1356.6	1409.8	1473.0	1556.1	1586.5	1594.5	1546.1	1556.1	1542.1	1506.5
55°	1318.2	1329.0	1382.6	1511.3	1638.9	1732.8	1748.0	1686.9	1623.3	1634.1	1594.9
56°	1260.7	1241.9	1301.8	1467.8	1635.3	1780.4	1792.8	1716.5	1673.3	1659.3	1594.1
57.5°	1069.5	1045.1	1123.9	1320.6	1544.5	1762.4	1771.6	1728.8	1664.9	1636.5	1477.8
60°	626.1	638.1	738.1	910.8	1191.5	1445.0	1475.8	1506.9	1464.2	1337.0	1099.9
62.5°	302.3	294.7	366.2	522.2	726.1	922.4	913.2	1000.8	1048.7	950.0	694.5
65°	158.3	157.5	199.9	285.1	399.0	484.6	493.0	540.2	606.1	489.4	352.6
67.5°	116.3	119.5	140.7	200.3	256.7	261.9	260.7	284.3	290.7	245.9	216.7
70°	91.2	92.8	108.4	152.3	191.1	171.1	167.5	170.3	189.1	197.1	187.5
72.5°	66.0	67.6	80.8	102.8	119.5	116.7	119.1	134.7	157.9	166.3	156.3
75°	44.0	45.2	52.4	62.8	70.8	76.4	80.8	98.8	120.3	125.1	120.3
77.5°	30.4	31.6	36.4	44.4	45.2	48.8	50.4	58.8	72.0	78.0	74.8
80°	17.2	17.2	19.6	22.8	28.0	32.8	33.6	40.4	46.4	50.4	51.2
82.5°	8.0	8.4	10.4	14.0	18.4	22.8	23.6	28.0	32.4	36.4	37.6
85°	4.0	4.4	6.0	8.4	11.2	13.6	13.2	13.6	14.4	13.6	14.0
87.5°	1.2	1.2	1.6	2.0	1.6	2.0	2.0	2.4	2.8	3.2	3.6
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°	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7
2.5°	633.3	634.5	626.5	634.1	631.3	630.9	636.5	635.7	637.7	636.9	632.1
5°	633.7	630.9	639.3	631.7	635.3	642.9	637.7	649.7	643.7	647.7	638.9
7.5°	646.1	646.9	645.3	648.5	646.9	650.5	647.7	650.5	645.7	646.1	654.1
10°	656.9	654.5	657.3	653.3	656.1	654.9	648.5	646.5	648.1	646.1	651.3
12.5°	676.9	672.5	670.5	665.7	662.5	650.5	640.5	634.9	642.5	643.7	641.3
15°	697.3	697.7	688.5	677.7	657.7	639.7	642.1	644.1	644.1	647.3	641.3
17.5°	710.1	710.1	701.7	680.1	659.7	649.3	646.9	640.5	634.9	634.1	633.7
20°	732.5	725.7	706.5	679.7	658.9	654.1	636.1	620.9	609.3	605.3	604.9
22.5°	758.1	740.9	714.1	680.5	657.7	650.9	617.3	594.5	573.8	565.0	566.2
25°	781.7	754.1	718.5	676.9	653.3	620.5	582.9	551.4	529.8	522.6	519.0
27.5°	798.1	768.1	718.5	680.1	636.9	586.5	548.2	507.8	489.0	484.2	485.0
30°	820.0	785.7	730.9	673.3	604.1	542.6	496.6	470.2	459.0	455.0	457.8
32.5°	871.6	831.6	748.1	656.9	565.4	498.6	461.4	446.6	430.2	422.2	419.4
35°	927.6	875.2	764.9	629.3	521.8	458.6	435.4	421.8	402.2	393.4	395.0
37.5°	1006.8	931.2	766.1	583.7	474.6	436.2	415.0	393.8	377.8	364.2	360.2
40°	1113.5	1007.6	763.3	535.8	436.6	409.8	394.2	367.8	349.8	340.3	342.3
42.5°	1207.5	1097.1	751.7	481.4	402.2	391.8	374.2	348.2	330.7	320.7	319.9
45°	1286.6	1163.1	729.7	435.0	373.4	371.8	351.4	331.5	317.5	308.3	312.3
47.5°	1359.8	1216.3	696.5	388.6	347.0	350.2	330.7	318.3	309.5	301.1	300.7
50°	1386.2	1215.5	667.3	350.2	325.9	324.3	323.5	310.3	301.1	293.9	297.1
52.5°	1430.2	1229.1	635.7	323.9	306.7	307.1	309.9	300.3	289.9	285.5	289.5
55°	1493.4	1231.1	566.2	293.1	290.7	293.5	293.5	287.1	278.3	274.7	272.7
56°	1441.8	1171.5	507.8	285.1	282.7	282.7	290.3	283.1	272.3	269.5	267.1
57.5°	1329.8	1026.4	425.0	275.5	271.9	277.5	281.5	273.9	263.9	259.9	262.3
60°	917.2	694.5	319.5	254.7	254.7	263.9	267.1	255.9	251.5	251.1	247.9
62.5°	535.4	404.6	249.9	235.9	236.7	244.3	246.7	240.3	234.7	241.5	244.7
65°	283.9	241.5	214.3	215.9	216.3	222.3	232.7	232.3	231.9	233.9	234.3
67.5°	205.5	200.7	194.7	193.1	193.9	198.3	208.7	216.7	216.3	211.5	207.9
70°	183.1	176.3	172.7	173.1	169.9	175.1	183.5	188.7	179.5	173.9	171.5
72.5°	152.3	150.3	147.9	148.3	141.9	140.7	131.1	131.1	128.7	127.1	129.9
75°	116.3	115.5	116.7	114.8	108.0	100.8	95.2	90.0	82.0	78.8	77.2
77.5°	73.6	76.0	78.8	74.4	71.6	66.4	60.8	55.6	49.2	45.6	45.6
80°	50.0	52.0	54.0	53.2	50.0	45.2	40.8	35.2	30.8	28.0	27.6
82.5°	38.0	39.6	42.4	39.2	36.0	32.0	28.4	24.4	20.4	17.2	17.2
85°	13.6	15.6	17.2	18.8	20.0	20.4	17.6	14.4	11.6	9.2	8.8
87.5°	3.6	4.0	4.4	4.0	4.0	4.0	4.4	4.0	3.6	2.8	2.8
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)