

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: P647740

Luminaire Tested: **GALN-SA1A-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3162.5 lumens
Efficiency: N/A
Efficacy: 95.8 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

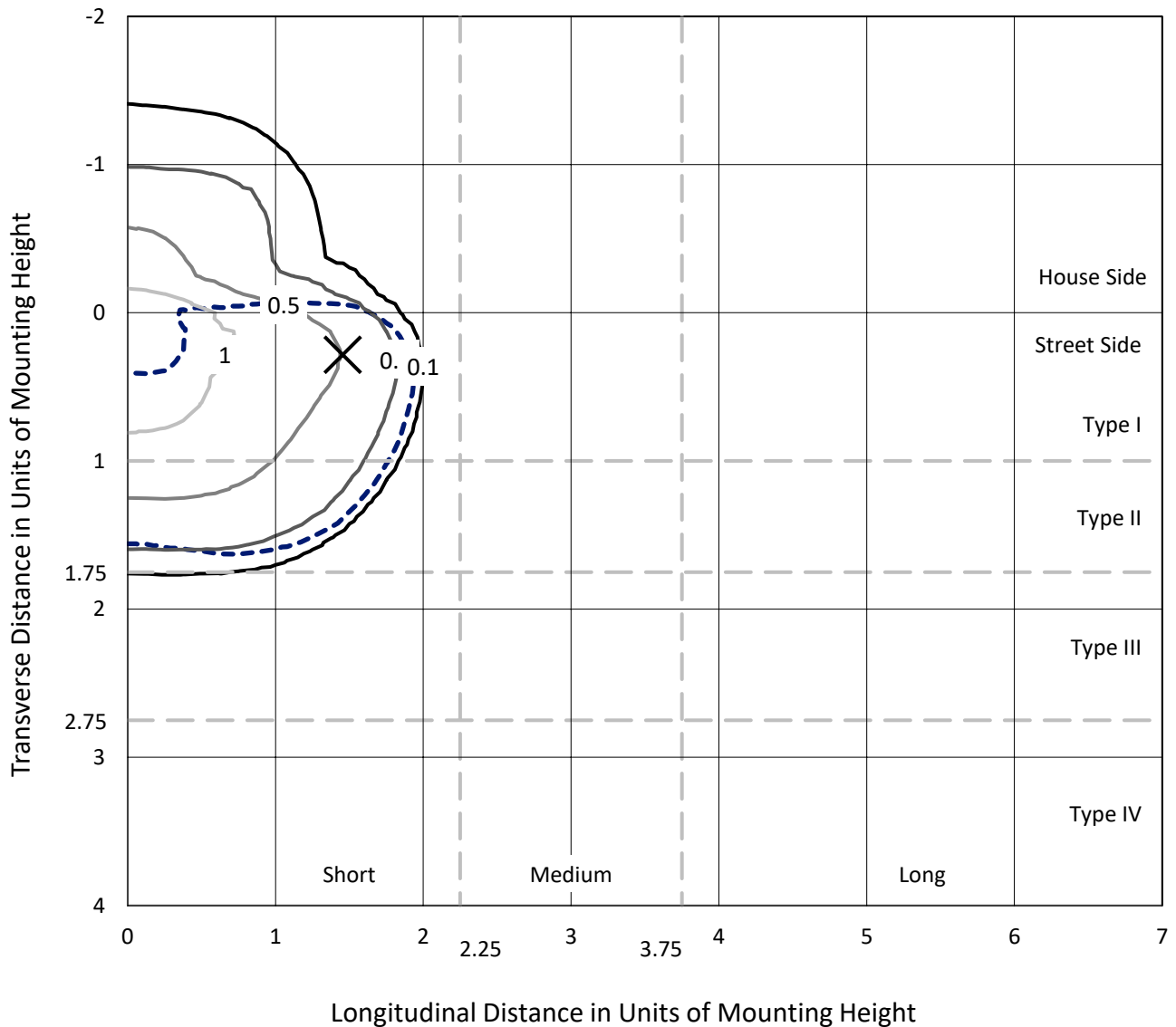
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

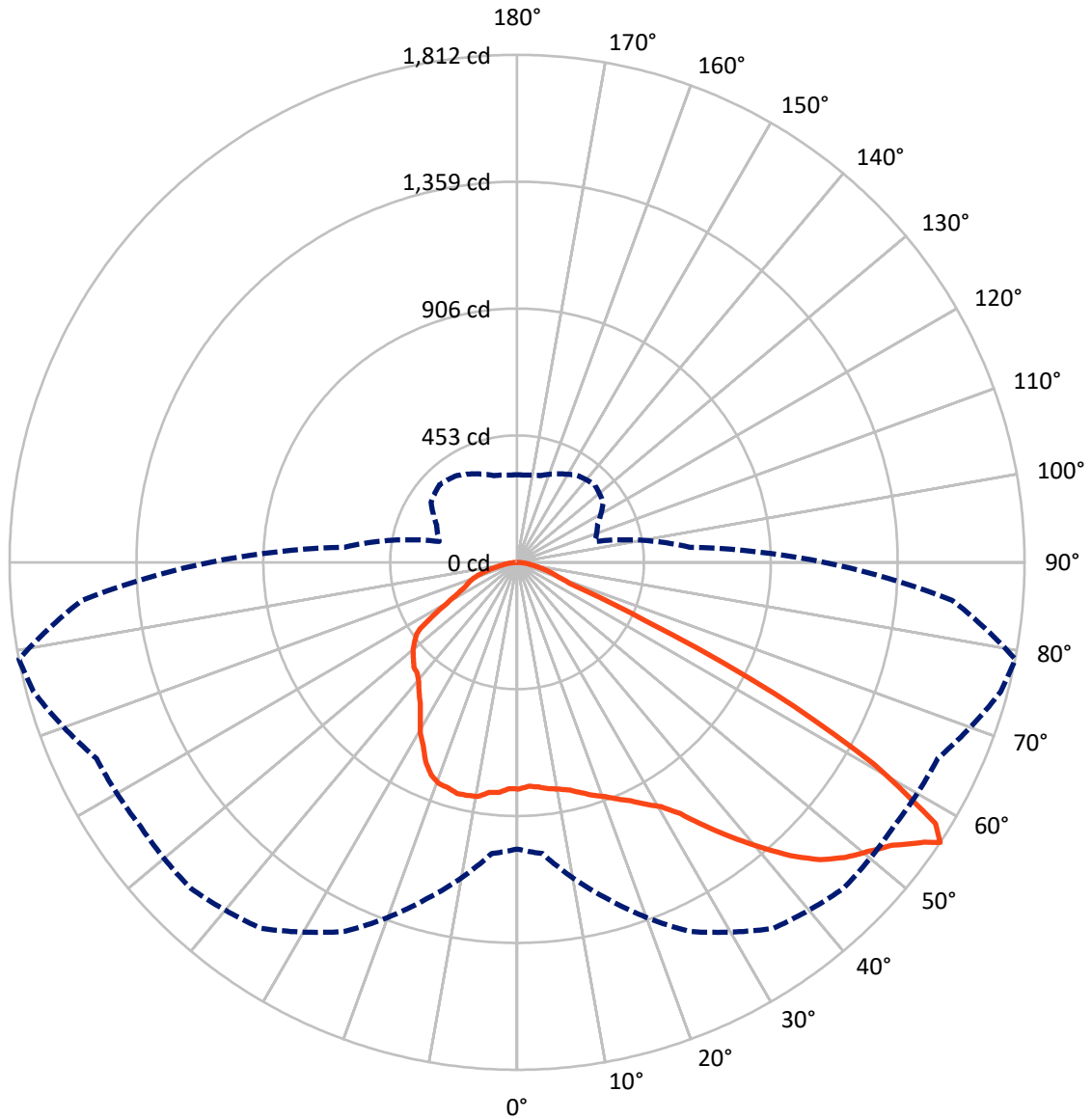
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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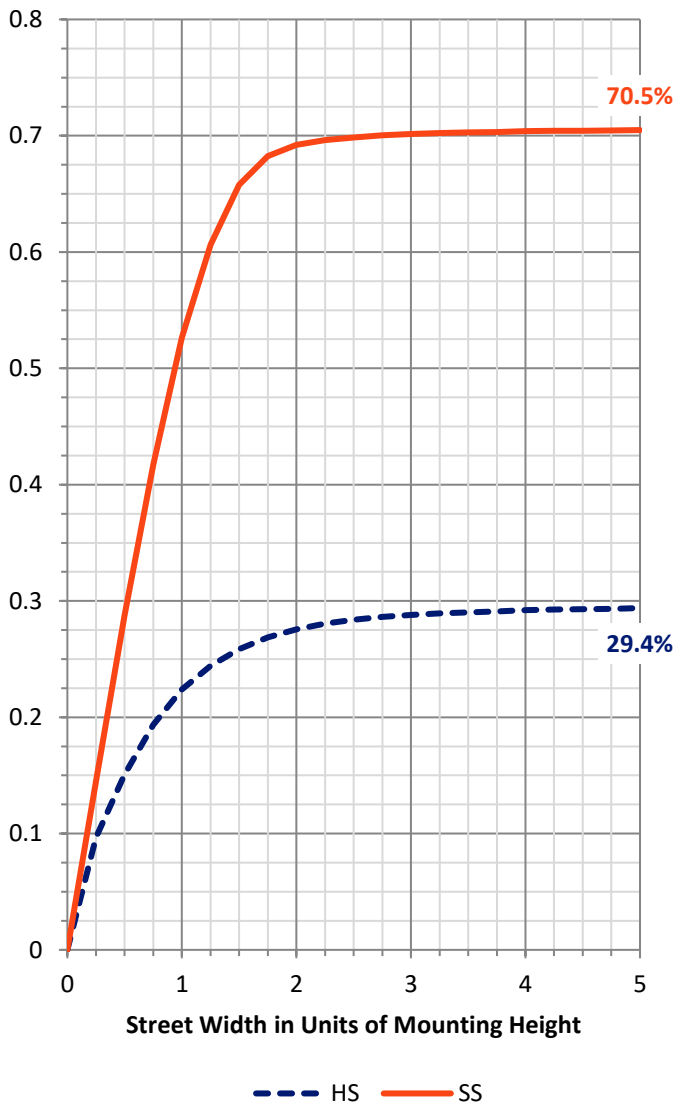
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	934.0	0.0	934.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2228.6	0.0	2228.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	3162.5	0.0	3162.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	2.3
10°-20°	201.3	6.4
20°-30°	344.4	10.9
30°-40°	527.9	16.7
40°-50°	713.5	22.6
50°-60°	819.4	25.9
60°-70°	373.5	11.8
70°-80°	92.1	2.9
80°-90°	16.7	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°	3162.5	100.0
0°-180°	3162.5	100.0

Coefficient of Utilization

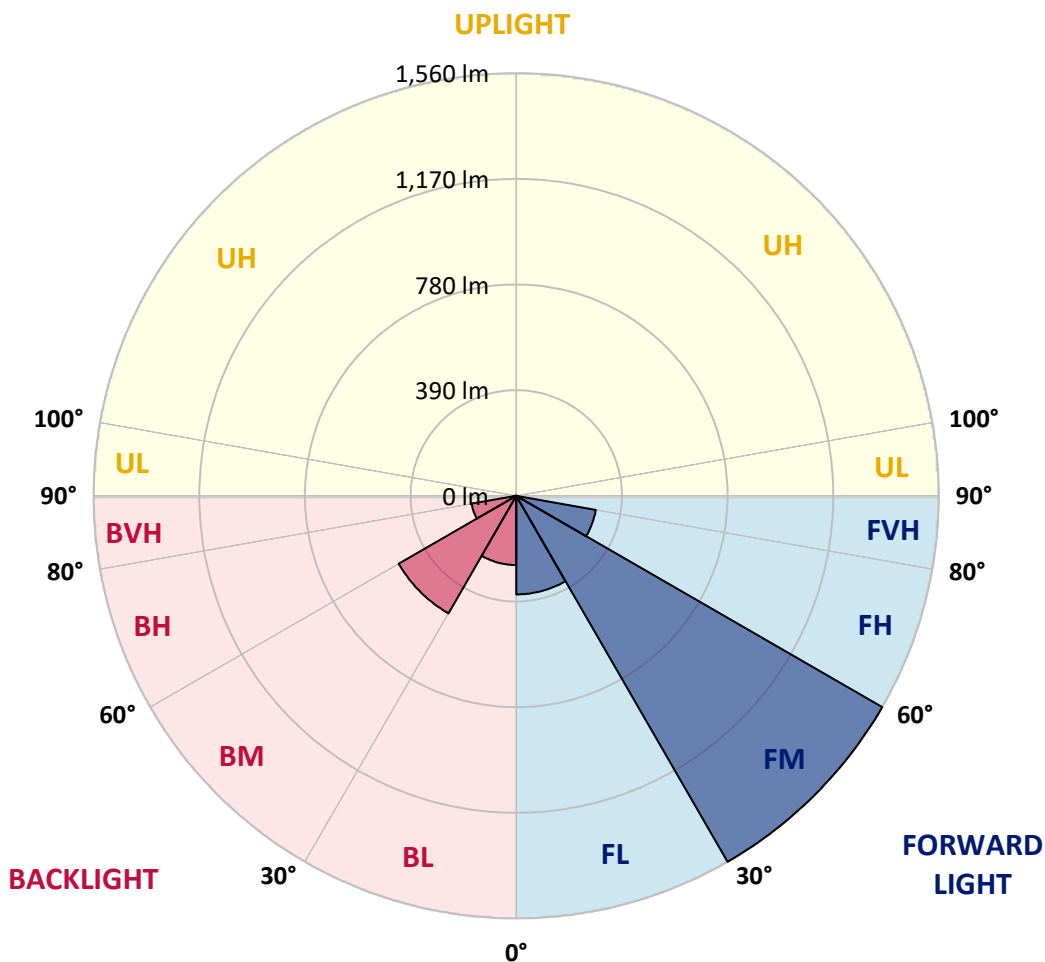


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.9	11.5			
FM (30°-60°)	1559.9	49.3			
FH (60°-80°)	298.2	9.4			G0/660
FVH (80°-90°)	6.7	0.2			G0/10
BL (0°-30°)	255.5	8.1	B1/500		
BM (30°-60°)	501.0	15.8	B1/1000		
BH (60°-80°)	167.5	5.3	B1/500		G1/500
BVH (80°-90°)	10.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2
2.5°	769.8	767.8	772.5	776.1	780.4	785.9	788.7	790.3	804.1	800.5	811.1
5°	753.2	748.1	751.7	754.4	761.9	768.6	776.1	787.9	800.5	806.0	819.0
7.5°	738.7	735.9	735.1	737.0	747.3	756.0	769.0	786.3	806.8	815.9	823.3
10°	714.6	710.7	716.6	729.6	732.3	750.5	765.5	790.3	808.0	823.7	845.8
12.5°	704.0	700.1	701.3	708.7	728.0	745.3	763.1	791.1	828.5	834.8	864.4
15°	720.9	717.0	718.2	716.2	734.7	743.8	771.7	806.8	842.7	853.3	884.8
17.5°	759.5	759.9	754.8	750.5	746.1	765.5	784.7	816.3	848.1	874.9	898.6
20°	833.2	820.2	809.9	785.5	778.9	787.1	811.5	841.9	870.6	892.7	919.5
22.5°	890.0	891.1	876.6	836.3	821.8	825.3	846.2	871.0	902.6	918.3	949.0
25°	972.3	964.0	948.2	916.3	883.6	886.4	901.8	924.2	932.9	943.9	977.4
27.5°	1047.5	1049.8	1018.8	988.8	948.2	940.4	967.9	971.9	957.3	978.2	989.6
30°	1123.9	1122.0	1101.4	1066.4	1026.6	1028.2	1040.5	1021.1	1001.0	1012.4	1020.3
32.5°	1203.1	1180.7	1179.9	1148.3	1118.0	1103.5	1088.4	1097.9	1066.8	1069.2	1061.7
35°	1266.5	1269.7	1251.5	1229.2	1214.1	1188.5	1147.6	1164.5	1158.6	1155.9	1123.5
37.5°	1312.6	1300.4	1309.5	1302.0	1287.8	1255.9	1213.3	1229.5	1232.3	1245.7	1208.2
40°	1350.4	1345.4	1369.4	1373.3	1363.4	1294.5	1218.1	1266.1	1307.5	1336.7	1292.2
42.5°	1368.6	1379.6	1404.8	1435.2	1413.1	1339.4	1242.5	1294.1	1386.3	1432.4	1371.7
45°	1393.0	1378.8	1416.2	1471.8	1472.2	1377.2	1266.1	1332.0	1447.8	1514.7	1426.1
47.5°	1368.2	1375.3	1413.9	1484.4	1502.5	1417.0	1330.0	1385.5	1515.5	1575.0	1476.5
50°	1312.6	1326.8	1397.3	1470.6	1525.4	1459.2	1403.2	1443.5	1578.1	1623.5	1484.8
52.5°	1254.8	1262.6	1372.9	1481.3	1535.6	1513.5	1501.3	1523.4	1654.6	1678.2	1495.1
55°	1097.1	1134.6	1292.2	1476.5	1585.7	1611.6	1602.2	1634.5	1741.2	1764.9	1551.0
56°	1024.2	1044.0	1243.7	1454.4	1595.5	1647.5	1642.7	1657.3	1787.4	1812.2	1559.7
57.5°	889.6	891.1	1060.5	1356.8	1558.5	1658.2	1653.4	1664.8	1778.3	1761.4	1483.6
60°	556.6	581.1	721.7	1043.6	1325.2	1538.4	1565.1	1473.4	1499.4	1463.5	1154.3
62.5°	288.4	284.9	378.2	610.2	879.7	1101.4	1126.3	1122.0	1081.8	1029.4	754.0
65°	143.8	144.5	197.8	302.2	450.7	576.8	646.1	653.6	546.8	503.1	357.7
67.5°	104.4	108.4	142.2	184.8	212.3	237.6	291.1	285.6	216.3	205.6	190.7
70°	81.1	84.7	115.4	141.0	128.0	128.0	139.5	144.2	154.0	158.4	163.5
72.5°	59.1	61.9	88.2	97.3	83.9	90.2	104.4	115.4	125.7	127.2	133.2
75°	40.6	42.9	57.9	53.6	50.4	62.2	76.4	86.7	94.1	98.1	101.6
77.5°	26.4	27.2	33.1	28.0	32.3	40.2	49.6	58.3	65.8	68.9	69.8
80°	11.8	13.0	14.2	17.7	22.5	28.7	35.5	42.5	47.3	48.5	50.8
82.5°	6.7	6.7	8.7	12.6	16.5	20.9	25.6	30.7	36.3	37.4	37.0
85°	3.5	3.5	5.1	7.5	10.3	12.2	11.8	12.2	13.0	15.0	14.6
87.5°	1.2	1.2	1.6	1.6	2.0	2.3	2.0	2.7	3.5	3.5	3.5
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°	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2	809.2
2.5°	808.0	811.5	806.8	817.1	817.1	815.1	805.2	808.4	810.7	810.7	812.7
5°	823.3	822.2	825.3	813.1	805.6	802.9	786.7	778.9	772.1	771.7	765.9
7.5°	832.0	828.9	827.7	818.6	785.5	765.5	730.8	710.7	706.3	691.0	696.9
10°	845.8	851.7	845.8	796.5	750.5	704.4	670.5	639.4	627.2	617.3	611.4
12.5°	874.1	871.4	837.1	770.6	706.0	651.2	600.8	568.1	555.9	547.2	546.4
15°	898.2	884.4	832.0	729.6	636.7	578.3	537.0	513.7	508.2	509.0	512.6
17.5°	906.5	897.0	805.2	687.1	585.0	516.5	497.1	493.6	498.8	504.6	506.2
20°	919.5	904.5	794.2	629.1	521.2	477.9	476.7	489.3	498.8	507.4	508.6
22.5°	946.6	908.8	758.3	574.4	477.5	466.4	477.9	488.5	503.1	510.1	503.9
25°	954.6	899.4	707.9	508.6	449.9	459.3	471.5	486.2	496.3	500.3	503.1
27.5°	961.2	884.8	639.8	464.9	441.2	458.9	471.5	483.7	489.3	492.8	496.0
30°	980.2	880.5	580.7	435.7	435.7	451.1	467.2	470.3	477.9	482.2	487.7
32.5°	989.6	850.5	520.0	417.2	430.2	455.0	456.2	462.1	462.5	466.0	460.2
35°	1014.4	829.3	463.7	403.8	432.5	451.1	457.0	453.4	434.1	424.7	426.7
37.5°	1032.5	818.6	423.1	402.2	432.9	455.4	458.5	431.7	411.7	395.9	399.9
40°	1081.4	792.2	392.4	399.5	436.5	460.2	451.5	422.4	386.1	369.9	367.1
42.5°	1118.8	773.3	373.1	396.3	439.3	466.8	448.0	403.4	366.4	351.4	355.3
45°	1162.1	769.0	362.8	397.1	444.0	470.3	443.6	388.8	349.5	343.5	342.3
47.5°	1177.5	737.9	351.8	390.4	442.8	469.2	429.0	377.8	343.1	343.9	347.1
50°	1151.9	706.0	343.5	376.6	435.0	458.5	406.1	363.2	339.6	349.5	354.9
52.5°	1119.2	673.2	326.6	358.1	418.7	442.0	395.5	362.5	336.1	332.9	334.1
55°	1129.1	646.4	302.9	332.9	392.8	411.3	383.7	354.9	327.4	315.5	319.5
56°	1097.1	618.9	287.6	317.1	375.1	391.6	377.8	348.3	320.2	312.4	312.4
57.5°	1006.9	526.3	267.5	291.9	337.6	357.3	366.4	344.3	312.4	298.6	299.0
60°	742.6	374.3	239.9	257.2	279.7	295.4	337.6	333.2	292.7	283.2	279.7
62.5°	457.7	273.4	220.2	226.9	238.3	251.3	294.6	301.8	271.9	261.6	259.3
65°	256.4	209.2	205.2	208.0	213.5	220.2	244.6	260.4	239.9	224.2	223.4
67.5°	187.5	187.1	190.3	192.6	195.0	195.0	200.9	207.2	204.4	191.8	190.7
70°	166.6	167.8	170.2	170.6	171.4	168.6	163.9	161.9	165.1	157.1	155.6
72.5°	137.5	141.4	144.2	144.5	140.2	136.7	130.4	123.7	121.4	119.8	119.3
75°	105.5	108.4	109.5	109.2	107.6	102.4	95.0	88.2	83.9	79.2	81.5
77.5°	71.3	75.2	77.2	77.2	74.9	66.9	63.4	58.3	53.9	48.9	49.6
80°	50.0	52.8	55.9	55.5	51.6	47.7	42.5	37.8	34.3	30.3	29.9
82.5°	37.4	39.0	40.6	39.8	37.0	33.1	29.5	25.2	21.3	18.5	18.5
85°	13.4	14.6	17.7	18.5	20.1	20.1	16.9	14.2	11.4	9.5	9.5
87.5°	3.9	3.9	4.3	4.3	3.9	4.3	3.5	3.9	4.3	2.7	2.7
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)