

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: P648204

Luminaire Tested: **GALN-SA1B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2631.7 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

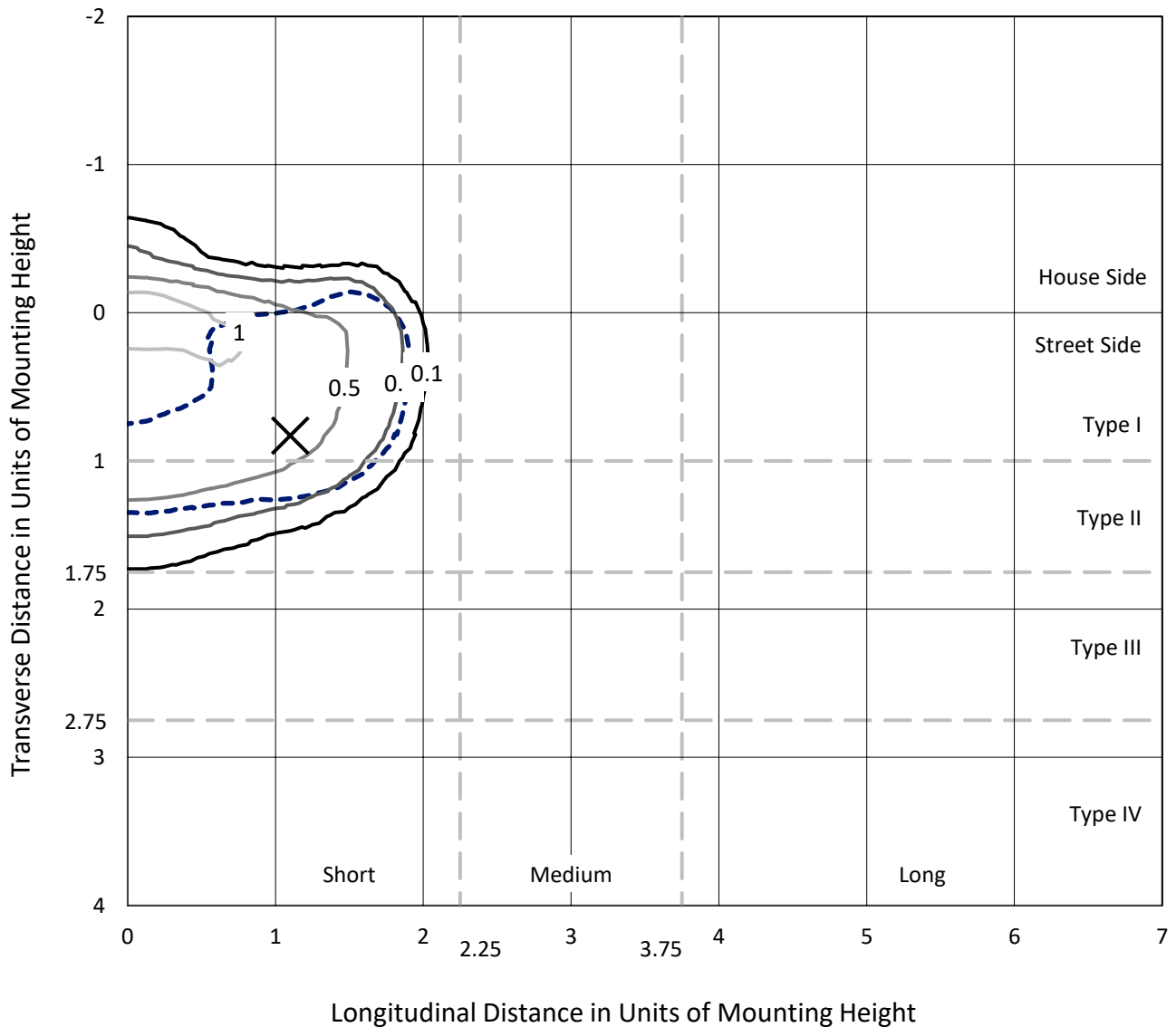
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

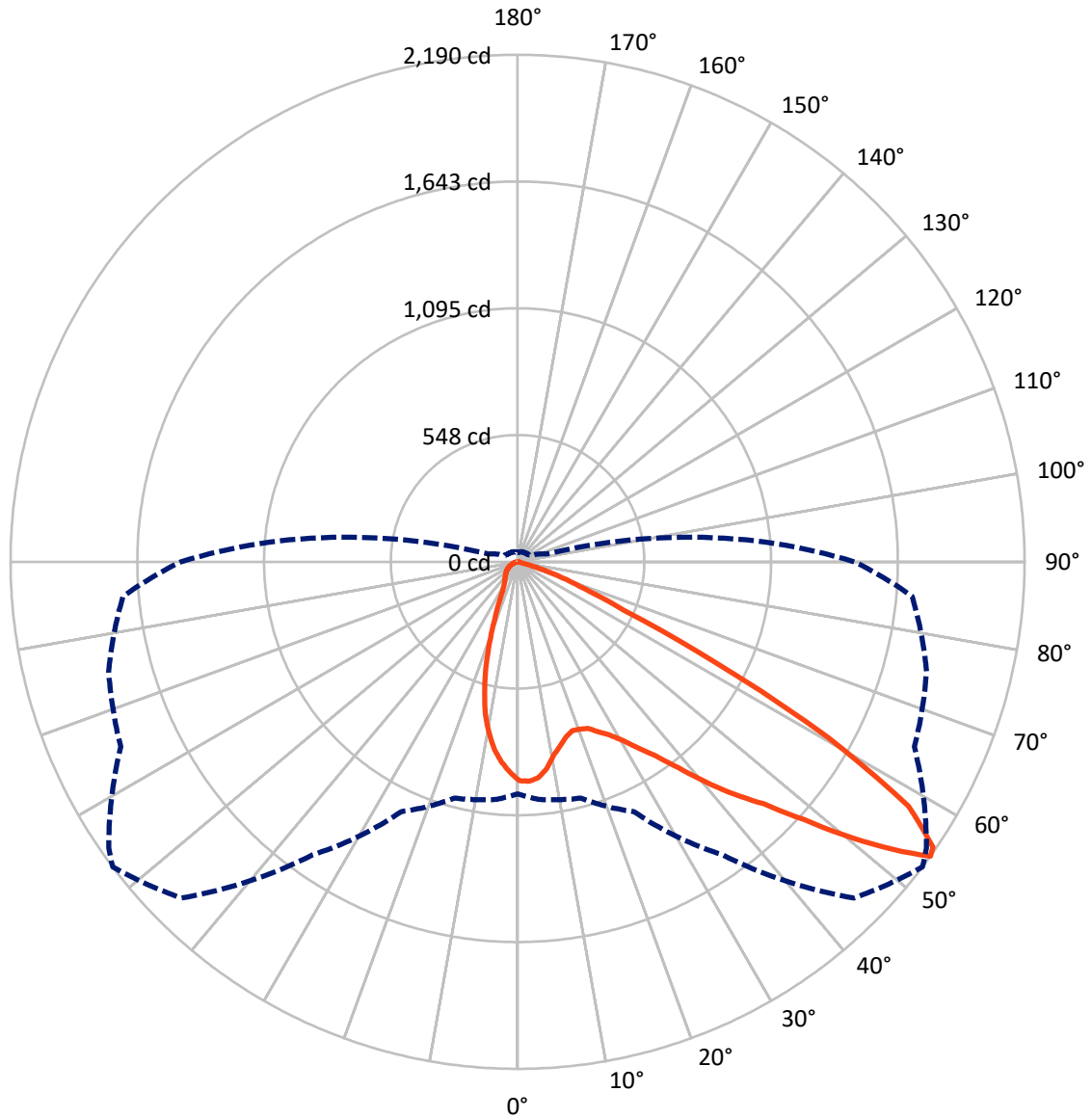
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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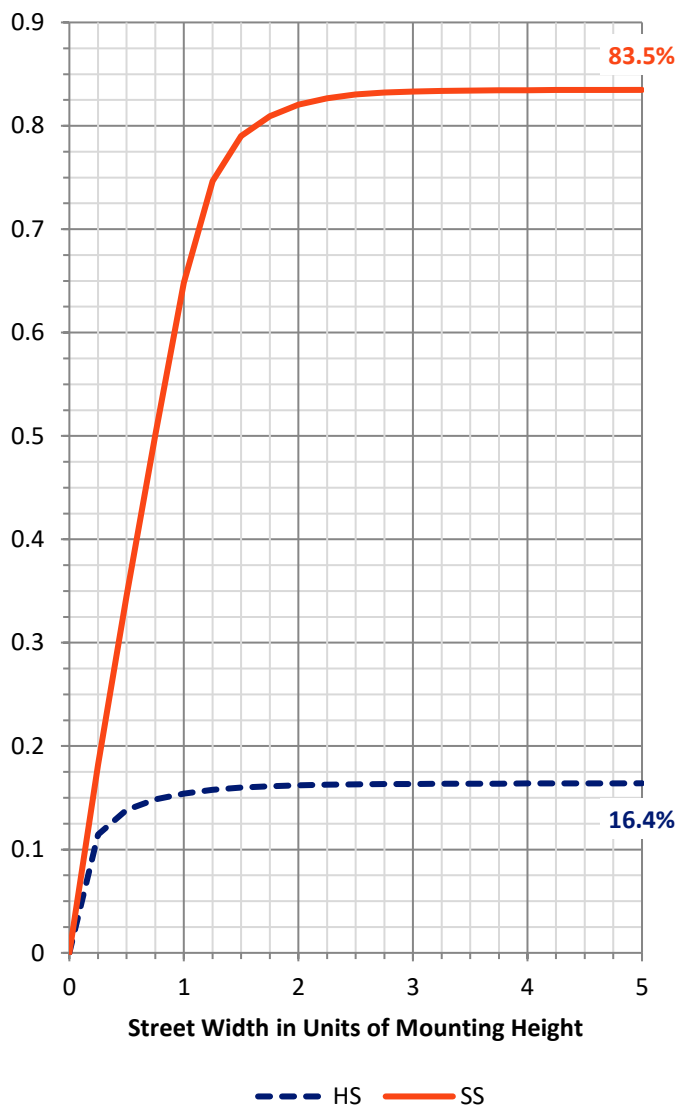
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	435.4	0.0	435.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2196.3	0.0	2196.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	2631.7	0.0	2631.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	3.1
10°-20°	185.9	7.1
20°-30°	264.3	10.0
30°-40°	407.8	15.5
40°-50°	639.4	24.3
50°-60°	742.8	28.2
60°-70°	280.7	10.7
70°-80°	26.7	1.0
80°-90°	3.0	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°	2631.7	100.0
0°-180°	2631.7	100.0

Coefficient of Utilization

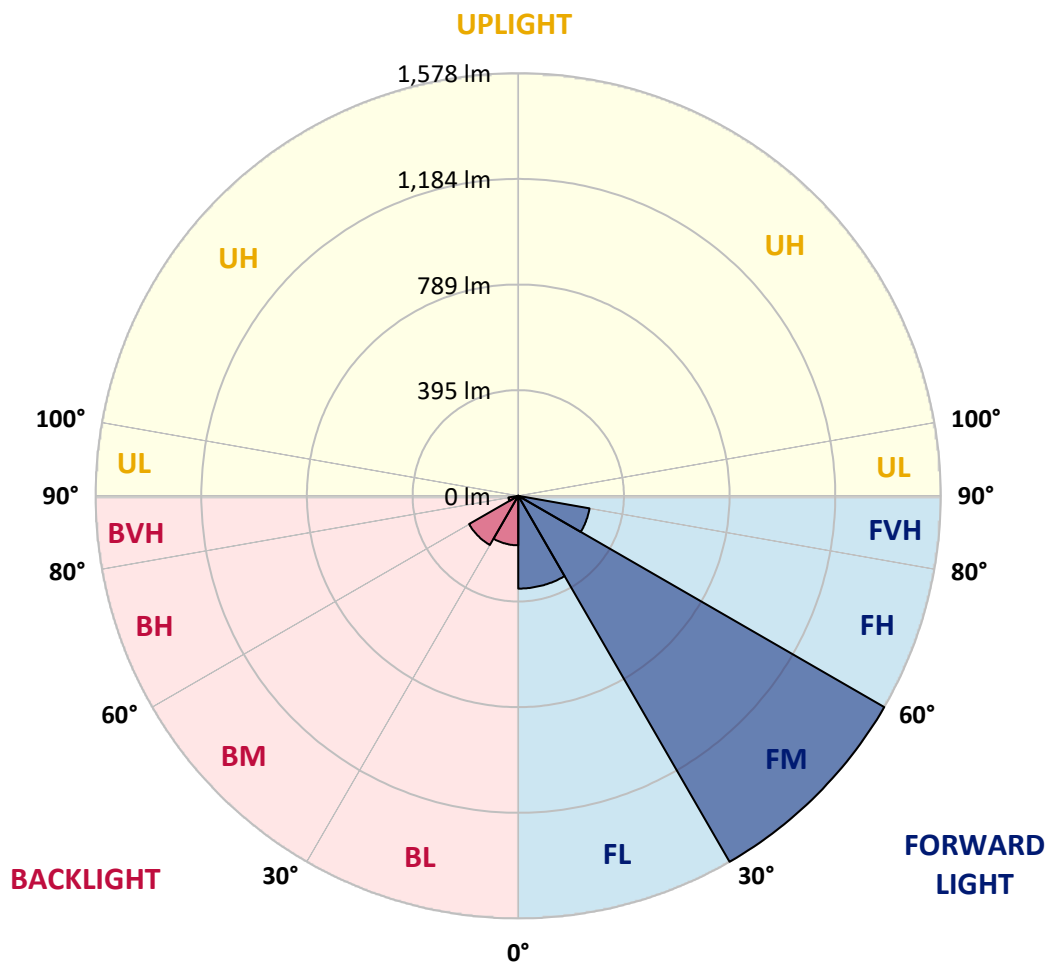


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.5	13.2			
FM (30°-60°)	1578.1	60.0			
FH (60°-80°)	270.1	10.3			G0/660
FVH (80°-90°)	1.6	0.1			G0/10
BL (0°-30°)	184.8	7.0	B1/500		
BM (30°-60°)	211.9	8.1	B0/220		
BH (60°-80°)	37.3	1.4	B0/110		G0/110
BVH (80°-90°)	1.5	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2
2.5°	940.4	932.0	940.4	941.3	947.2	952.6	949.2	957.0	952.6	947.7	946.3
5°	864.4	875.6	876.1	893.8	889.9	922.2	936.4	932.5	956.5	955.0	951.7
7.5°	796.2	791.8	797.6	818.2	844.2	881.5	902.1	901.6	935.9	960.4	958.0
10°	733.0	732.5	744.7	760.9	783.0	822.2	850.7	864.8	918.3	955.6	961.0
12.5°	690.3	688.3	701.6	714.8	749.6	780.0	816.3	823.2	884.5	938.3	947.2
15°	662.3	666.8	667.7	693.3	715.3	755.5	783.9	798.2	868.7	924.6	958.5
17.5°	657.5	663.4	663.8	684.9	708.5	742.3	767.3	786.4	855.5	931.5	958.9
20°	667.3	663.8	666.8	680.0	703.1	735.4	771.7	778.1	851.1	935.0	964.3
22.5°	695.2	694.2	686.8	697.7	713.9	747.7	782.0	791.8	863.9	952.6	968.8
25°	726.1	731.5	724.6	723.2	734.5	767.7	813.4	826.1	906.5	984.5	982.5
27.5°	783.9	778.5	778.5	771.7	768.7	785.0	847.2	868.3	954.1	1025.7	998.2
30°	839.4	845.2	840.8	843.3	823.6	822.2	895.2	921.2	1038.4	1088.4	1031.5
32.5°	927.1	919.2	926.6	920.3	894.3	867.8	960.4	987.4	1140.4	1160.5	1081.6
35°	1000.1	996.8	1028.1	1027.1	984.9	958.9	1029.6	1069.8	1211.5	1246.8	1140.4
37.5°	1104.1	1097.7	1133.5	1150.7	1113.0	1074.2	1128.6	1175.2	1277.6	1315.9	1200.7
40°	1211.0	1227.1	1275.2	1303.6	1263.4	1211.9	1249.7	1263.9	1321.8	1361.0	1241.8
42.5°	1346.3	1369.9	1418.9	1443.4	1439.9	1384.0	1372.8	1372.3	1353.7	1348.2	1272.3
45°	1476.2	1467.4	1542.9	1596.3	1639.4	1623.3	1491.4	1476.7	1404.2	1367.4	1280.1
47.5°	1533.1	1530.1	1581.7	1676.7	1823.8	1843.9	1664.0	1607.1	1489.4	1447.8	1322.7
50°	1459.5	1474.8	1525.8	1631.1	1856.6	2010.1	1875.8	1799.3	1588.9	1545.8	1423.7
52.5°	1219.3	1229.6	1278.2	1412.0	1744.9	2108.1	2078.8	2034.6	1771.9	1700.3	1599.7
54°	1002.6	1030.0	1056.6	1190.9	1545.8	2053.7	2190.1	2156.2	1891.0	1828.7	1710.5
55°	873.2	889.3	908.5	1042.3	1408.1	1961.6	2177.3	2180.3	1970.9	1868.9	1785.1
57.5°	637.8	649.1	629.5	688.8	966.8	1592.9	1991.5	2071.0	2078.8	1929.2	1830.7
60°	487.3	492.3	470.2	479.5	601.1	1093.3	1540.5	1636.1	1875.3	1686.0	1550.7
62.5°	378.0	379.0	378.5	394.6	414.3	643.2	963.4	1048.2	1292.9	1197.3	1053.1
65°	278.5	274.0	281.9	331.0	353.5	404.5	507.5	569.2	702.6	593.2	424.1
67.5°	180.4	181.9	189.7	246.1	303.0	310.4	312.3	307.4	307.9	169.6	106.4
70°	108.4	110.8	108.4	139.2	216.7	222.6	203.5	198.6	155.0	40.2	39.7
72.5°	64.2	60.8	54.4	59.8	90.2	107.9	97.1	96.6	60.8	23.6	23.6
75°	26.9	24.5	20.1	18.2	24.0	23.0	23.0	20.6	16.2	15.7	14.7
77.5°	5.4	5.4	3.9	4.4	5.9	6.9	8.3	8.3	9.8	9.8	9.3
80°	0.0	0.5	1.5	3.0	4.4	6.3	7.4	7.4	8.3	8.3	6.9
82.5°	0.0	0.5	1.5	3.0	3.9	5.9	7.4	7.4	8.3	8.8	7.4
85°	0.0	0.5	1.5	2.4	3.9	4.9	4.9	4.4	3.4	3.0	2.0
87.5°	0.0	0.0	0.5	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2
2.5°	949.6	949.2	937.4	918.3	913.8	897.7	895.8	886.0	891.3	873.2	871.2
5°	941.8	935.9	921.7	909.5	873.7	848.1	828.1	803.6	789.3	791.8	782.5
7.5°	953.1	937.9	912.9	870.2	826.6	782.0	757.9	708.0	689.8	662.9	658.9
10°	941.3	930.0	891.3	820.7	760.4	696.2	639.8	584.4	542.2	524.1	520.1
12.5°	940.4	920.7	856.1	777.6	690.3	598.1	516.2	447.1	405.4	381.9	376.5
15°	925.1	901.6	816.3	710.9	590.3	475.6	386.3	319.6	287.8	274.0	278.0
17.5°	926.6	891.3	776.6	640.3	491.7	349.1	263.8	229.4	221.1	224.6	224.6
20°	925.1	868.3	728.6	558.9	376.5	242.2	193.6	181.4	186.8	197.6	195.1
22.5°	917.3	857.5	684.4	473.1	277.0	179.5	155.4	155.9	164.3	177.5	180.4
25°	923.2	833.5	628.5	386.3	202.0	143.1	134.8	138.3	147.0	156.9	158.9
27.5°	918.8	816.3	570.2	300.0	147.6	123.1	122.5	126.5	130.4	137.7	137.7
30°	923.7	800.6	512.9	223.1	121.6	112.8	110.8	113.8	117.7	119.2	118.6
32.5°	941.8	788.9	446.6	166.7	107.3	103.0	103.0	103.0	102.5	104.5	104.9
35°	981.5	790.8	388.3	129.0	98.0	94.6	93.2	91.2	90.2	91.2	91.7
37.5°	1024.7	789.8	328.0	109.9	91.2	88.2	84.8	81.9	81.4	82.4	80.9
40°	1043.8	799.1	272.1	98.6	84.8	81.4	76.0	73.5	74.0	75.0	74.0
42.5°	1069.8	802.1	235.8	89.7	78.9	73.5	70.1	67.2	66.7	68.1	67.7
45°	1069.3	785.4	197.6	84.8	73.5	67.7	63.3	60.8	60.8	61.8	62.2
47.5°	1100.7	783.0	169.6	80.4	69.6	63.7	58.3	56.4	55.9	55.9	54.9
50°	1173.7	817.3	148.1	75.5	64.8	59.4	54.9	52.5	50.5	49.5	49.0
52.5°	1316.4	924.2	131.4	69.6	59.4	54.9	51.0	49.0	46.6	44.2	43.6
54°	1454.7	1034.5	130.4	64.8	54.9	52.0	48.5	47.5	44.6	41.2	40.2
55°	1516.9	1098.7	133.8	60.8	52.0	50.0	47.1	46.1	43.1	39.2	38.8
57.5°	1568.3	1123.7	131.9	50.5	47.1	46.6	44.2	42.7	39.2	33.8	32.9
60°	1262.4	849.6	94.6	44.6	43.1	42.1	40.2	39.2	34.8	28.9	28.4
62.5°	797.6	488.8	60.3	39.2	37.7	36.3	33.8	32.9	28.9	23.0	21.6
65°	339.7	202.5	40.7	34.8	32.3	29.9	28.0	26.5	23.0	17.1	16.7
67.5°	88.2	72.0	33.8	30.4	26.9	23.6	22.1	19.6	15.7	11.7	11.3
70°	39.7	36.3	28.4	25.5	21.6	18.2	16.2	13.7	10.3	7.8	7.4
72.5°	23.6	23.0	21.6	19.1	16.2	13.7	11.7	9.3	6.9	4.4	4.4
75°	14.7	14.3	14.7	13.2	11.3	10.3	8.8	6.3	3.9	2.0	2.0
77.5°	8.8	8.8	8.8	8.3	7.8	7.8	6.3	3.9	2.0	0.5	0.5
80°	6.9	6.9	7.4	6.9	6.9	6.9	5.4	3.0	1.0	0.0	0.0
82.5°	6.9	7.4	8.3	7.8	6.9	5.9	4.9	3.0	1.0	0.0	0.0
85°	2.0	1.5	2.4	3.4	4.9	4.4	3.4	2.4	1.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.0	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)