

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: P526451

Luminaire Tested: **GALN-SA1B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2574 lumens
Efficiency: N/A
Efficacy: 58.5 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

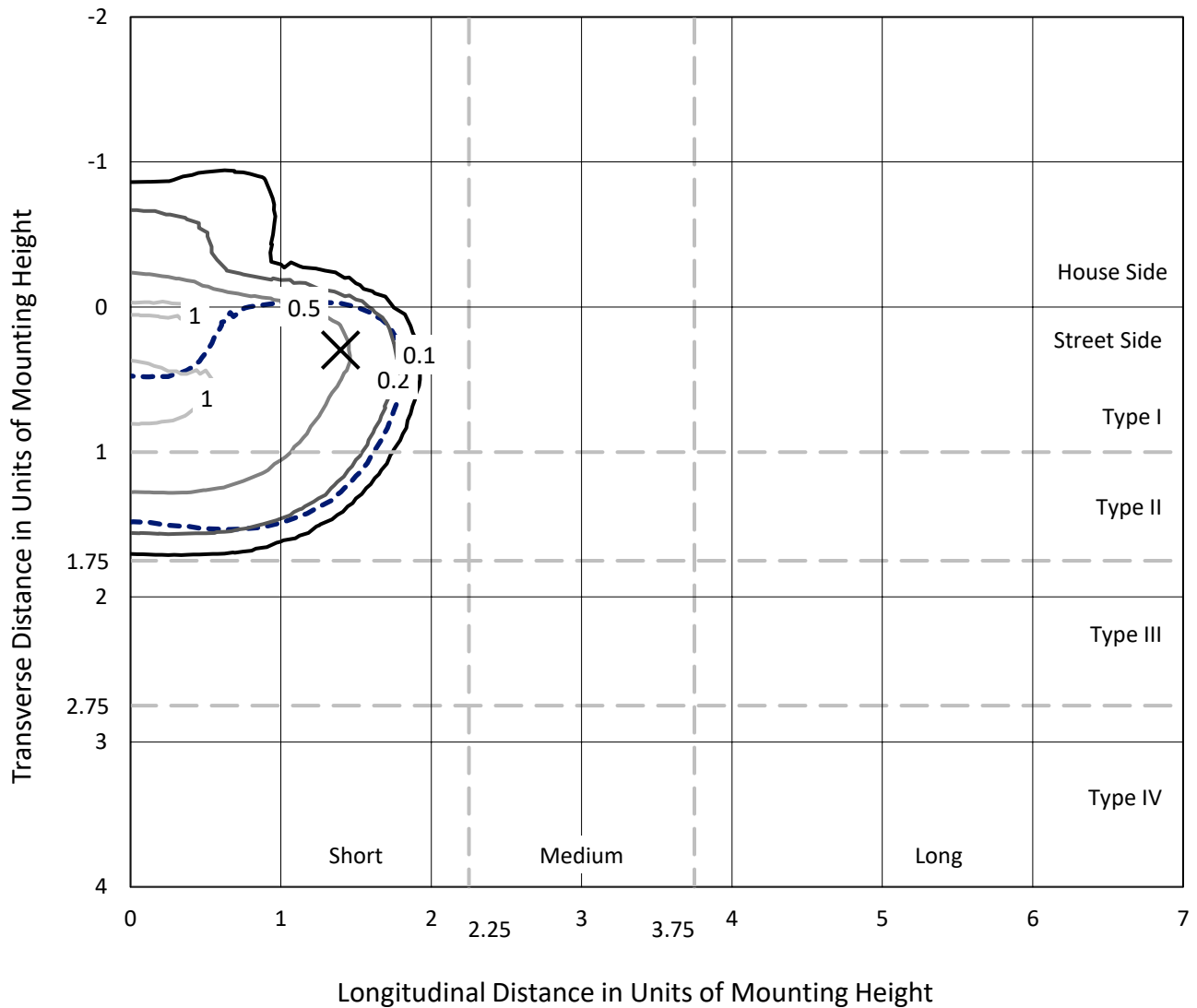
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526451
 CATALOG NUMBER: GALN-SA1B-827-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

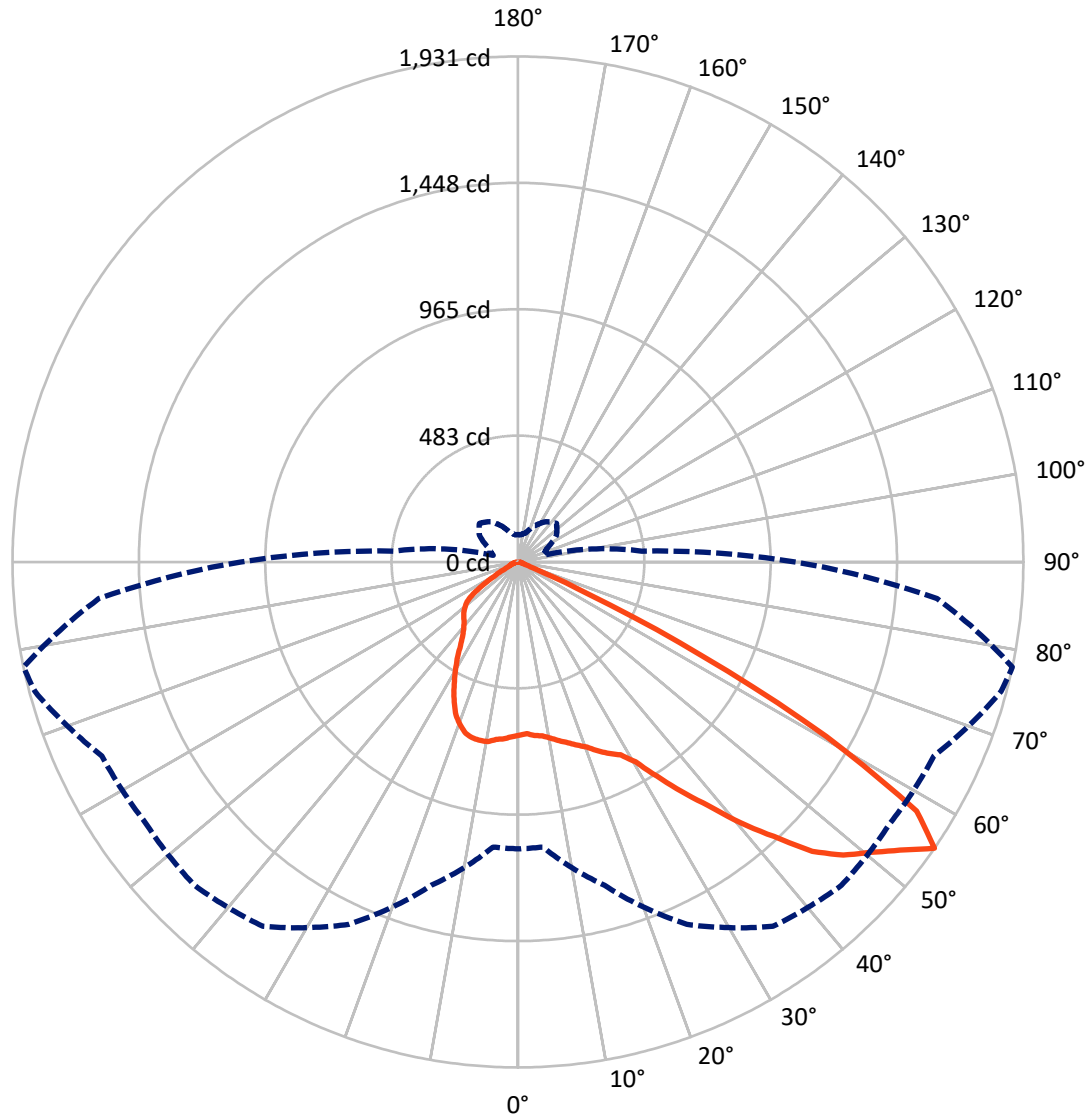
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P526451
CATALOG NUMBER: GALN-SA1B-827-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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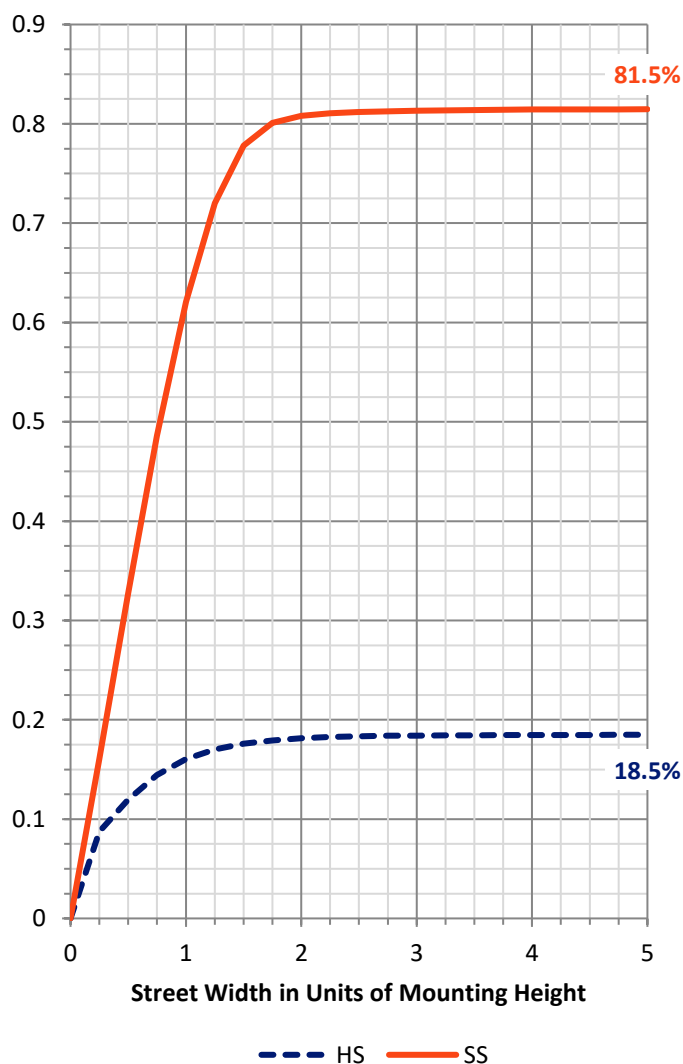
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.1	0.0	478.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2095.9	0.0	2095.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	2574.0	0.0	2574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	2.3
10°-20°	156.2	6.1
20°-30°	273.7	10.6
30°-40°	451.4	17.5
40°-50°	656.8	25.5
50°-60°	744.2	28.9
60°-70°	212.8	8.3
70°-80°	16.5	0.6
80°-90°	3.4	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°	2574.0	100.0
0°-180°	2574.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526451

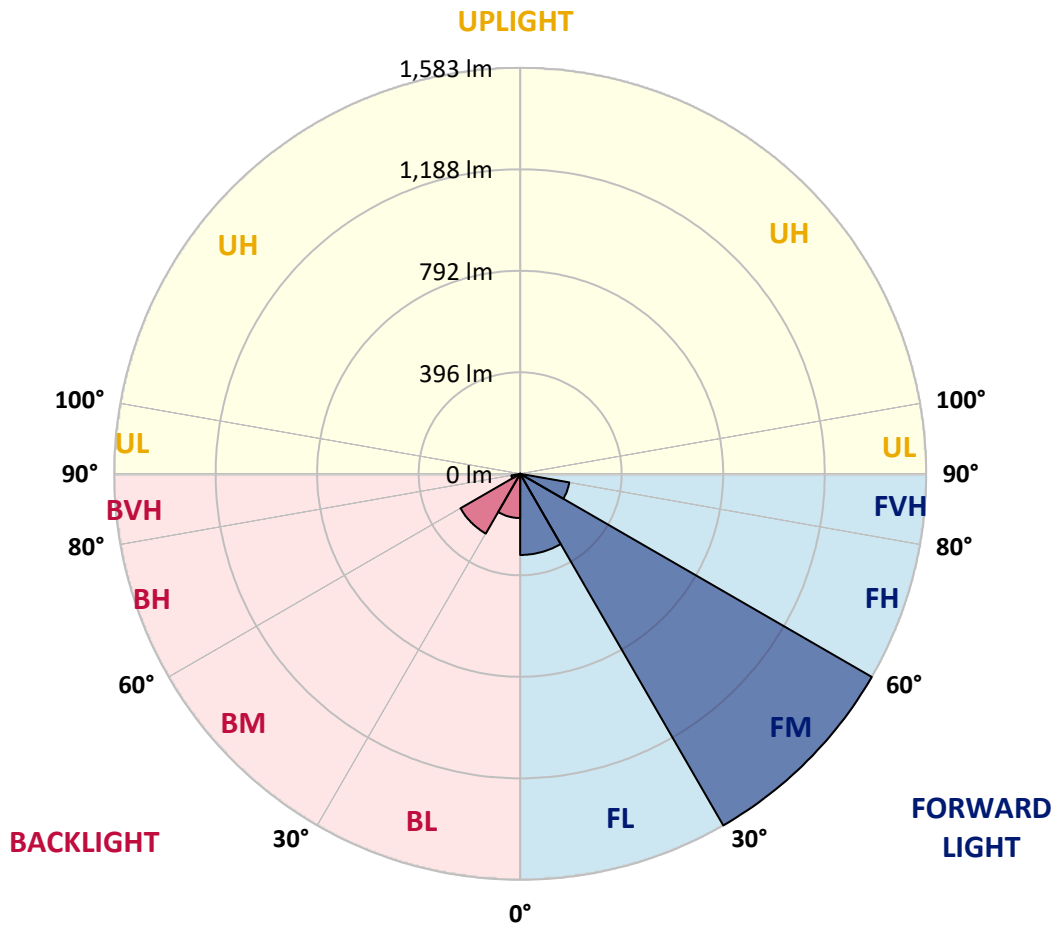
CATALOG NUMBER: GALN-SA1B-827-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.4	12.3			
FM (30°-60°)	1583.4	61.5			
FH (60°-80°)	194.4	7.6			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	172.5	6.7	B1/500		
BM (30°-60°)	268.9	10.4	B1/1000		
BH (60°-80°)	34.9	1.4	B0/110		G0/110
BVH (80°-90°)	1.8	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





REPORT NUMBER: P526451

CATALOG NUMBER: GALN-SA1B-827-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	661.8	661.8	661.8	661.8	661.8	661.8	661.8	661.8	661.8	661.8	661.8
2.5°	622.2	628.2	629.1	636.5	636.0	648.4	652.1	652.6	660.9	656.7	667.3
5°	604.7	601.5	600.1	613.0	616.7	627.7	636.9	642.4	659.5	665.5	676.5
7.5°	589.1	589.1	590.0	601.5	600.1	614.4	624.0	641.1	665.9	671.0	684.3
10°	573.9	568.4	575.3	587.2	597.3	603.8	624.0	640.1	669.1	683.9	702.3
12.5°	566.1	568.8	569.7	578.5	589.5	608.9	619.9	646.6	692.2	700.9	720.7
15°	615.3	609.8	596.4	588.6	597.8	607.0	634.6	661.8	704.1	716.5	738.6
17.5°	672.4	667.8	656.7	635.5	614.8	631.9	653.5	678.3	717.0	735.4	768.1
20°	746.9	739.6	728.5	687.1	669.1	650.7	673.7	703.2	738.2	754.7	788.3
22.5°	835.7	835.7	810.9	760.7	723.4	706.0	715.6	732.6	761.6	784.2	817.3
25°	928.2	925.5	902.9	850.9	787.9	767.2	778.2	790.2	798.0	810.4	832.5
27.5°	1034.1	1018.0	989.4	931.9	876.2	836.2	848.2	837.6	827.9	834.4	866.1
30°	1105.9	1116.0	1079.6	1024.4	972.0	927.3	929.6	920.4	876.2	885.4	904.3
32.5°	1180.4	1186.9	1166.6	1136.2	1083.8	1031.8	1012.9	1005.1	972.0	976.1	957.7
35°	1242.6	1255.0	1237.0	1223.7	1208.5	1166.6	1114.6	1139.9	1086.5	1076.4	1028.6
37.5°	1299.6	1295.9	1317.1	1303.3	1300.1	1270.6	1213.6	1218.6	1182.7	1180.4	1125.2
40°	1350.7	1351.6	1380.6	1387.1	1374.2	1321.7	1238.9	1278.9	1307.9	1310.7	1239.8
42.5°	1393.0	1405.5	1430.3	1482.3	1463.0	1375.6	1265.1	1308.8	1416.5	1433.5	1348.4
45°	1429.9	1455.2	1486.0	1532.5	1521.4	1452.0	1330.5	1370.5	1532.5	1577.1	1450.6
47.5°	1432.2	1465.3	1498.9	1567.9	1581.7	1492.9	1398.1	1468.1	1624.5	1672.9	1525.1
50°	1423.0	1440.4	1507.6	1582.7	1613.9	1559.6	1492.9	1550.0	1713.8	1744.2	1562.9
52.5°	1313.9	1327.2	1462.1	1596.5	1671.9	1635.1	1618.5	1664.1	1804.9	1827.5	1598.3
55°	1095.3	1093.0	1278.5	1527.0	1698.6	1746.9	1736.8	1752.9	1910.3	1930.6	1607.0
57.5°	749.2	791.1	951.2	1271.6	1535.2	1720.7	1731.3	1704.6	1787.4	1795.3	1400.9
60°	404.1	421.5	550.4	848.6	1168.9	1402.2	1429.9	1381.5	1375.1	1353.0	1000.0
62.5°	160.6	169.4	242.5	420.2	636.9	852.3	911.7	891.9	849.5	791.6	517.7
65°	76.4	81.9	120.6	196.5	282.6	355.3	414.6	433.1	319.4	287.6	170.7
67.5°	52.0	56.1	87.9	112.3	100.8	105.4	137.1	127.5	75.0	64.0	47.4
70°	39.6	42.3	70.4	76.4	45.1	31.8	35.4	33.1	30.8	31.3	30.8
72.5°	28.1	30.4	51.5	45.1	19.8	14.7	18.9	22.6	22.6	22.6	22.1
75°	17.0	19.3	29.9	17.5	7.8	7.8	12.0	15.2	16.1	16.6	15.6
77.5°	8.7	11.0	10.1	5.1	5.1	6.0	8.7	10.6	11.5	11.5	11.0
80°	1.8	1.8	1.8	2.8	5.1	6.4	8.7	9.7	11.0	11.0	10.1
82.5°	0.0	0.5	1.4	2.8	4.6	6.0	8.3	9.7	11.0	11.5	10.6
85°	0.0	0.5	0.9	1.8	3.2	3.7	3.2	2.8	2.8	2.8	2.8
87.5°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526451

CATALOG NUMBER: GALN-SA1B-827-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	661.8	661.8	661.8	661.8	661.8	661.8	661.8	661.8	661.8	661.8	661.8
2.5°	668.2	669.6	667.3	666.8	665.0	670.5	657.2	654.0	662.2	654.4	656.3
5°	677.0	680.2	676.0	669.1	659.0	643.4	630.0	612.5	604.3	598.3	597.3
7.5°	683.4	685.7	681.6	659.5	629.1	589.5	560.1	538.4	521.4	516.4	508.1
10°	709.6	710.1	689.4	640.6	581.2	529.2	484.1	451.0	434.0	423.4	418.8
12.5°	727.1	726.2	684.3	603.3	524.2	455.1	403.6	363.6	347.9	342.9	339.6
15°	749.2	744.2	672.4	565.1	450.5	376.0	329.5	301.9	300.5	297.3	300.5
17.5°	766.7	752.4	654.9	495.6	380.1	309.7	279.3	281.2	284.9	288.1	288.5
20°	795.2	765.8	614.8	434.9	314.8	265.5	265.1	273.4	282.6	286.2	289.9
22.5°	816.9	771.3	572.0	370.0	261.4	247.6	255.4	267.8	274.7	278.4	283.9
25°	824.7	756.1	515.0	305.1	235.6	239.3	251.3	259.6	268.3	272.4	270.1
27.5°	832.5	748.3	446.9	251.3	221.8	233.8	243.9	252.2	255.0	260.5	264.2
30°	851.4	721.1	385.7	217.2	214.9	230.1	237.5	240.2	247.6	250.8	250.8
32.5°	866.6	710.6	320.8	201.1	214.0	231.9	232.9	232.9	233.8	231.5	230.6
35°	897.9	674.2	262.8	191.4	213.5	232.4	234.7	226.9	205.7	197.4	195.1
37.5°	936.5	650.7	220.0	189.1	216.8	237.9	241.6	212.2	184.5	171.2	168.9
40°	983.5	634.2	191.9	188.2	224.1	250.8	239.8	200.7	164.8	145.4	144.5
42.5°	1038.2	619.0	173.0	187.8	233.3	264.2	237.9	191.0	144.5	131.6	133.5
45°	1081.9	610.7	160.2	184.5	236.5	272.0	239.3	174.0	136.2	127.9	128.9
47.5°	1116.0	593.2	149.6	179.0	236.1	274.7	226.9	167.1	132.1	134.4	136.7
50°	1116.9	569.7	136.2	167.1	229.2	269.7	212.6	160.6	131.2	140.8	145.4
52.5°	1104.5	536.6	122.0	150.0	213.1	252.2	199.7	157.9	127.0	126.1	131.6
55°	1060.3	474.5	98.0	121.5	179.9	208.0	188.2	152.8	114.6	104.0	104.9
57.5°	856.9	340.1	72.3	87.0	127.5	152.3	169.8	150.5	103.1	88.4	88.8
60°	530.6	192.8	52.9	59.4	78.7	92.5	137.6	139.9	92.0	74.6	73.6
62.5°	272.4	95.3	41.0	41.9	48.3	54.3	94.3	117.4	83.3	70.9	70.9
65°	91.1	46.9	35.9	32.2	32.2	33.6	57.1	81.5	70.4	59.4	59.4
67.5°	39.1	35.0	31.3	28.1	25.8	24.4	32.2	47.4	52.5	45.1	43.3
70°	30.4	29.5	27.2	23.5	20.2	18.4	18.9	24.4	29.9	29.0	28.1
72.5°	22.6	22.6	21.6	18.4	15.6	13.3	12.4	12.9	14.3	14.7	15.2
75°	15.6	16.1	16.1	14.3	11.5	9.7	8.3	6.9	5.5	4.6	4.1
77.5°	10.6	11.0	12.0	10.6	8.7	6.4	5.1	3.7	2.3	0.9	0.9
80°	9.2	10.6	11.5	10.6	9.2	6.9	5.1	2.8	1.4	0.0	0.0
82.5°	9.7	10.6	12.0	10.1	8.7	6.4	5.1	3.2	1.4	0.5	0.0
85°	2.3	2.3	2.8	3.2	4.1	4.6	3.7	2.3	1.4	0.5	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)