

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: P526061

Luminaire Tested: **GALN-SA1A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526061
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-SA1A-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 2353 lumens
Efficiency: N/A
Efficacy: 71.3 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

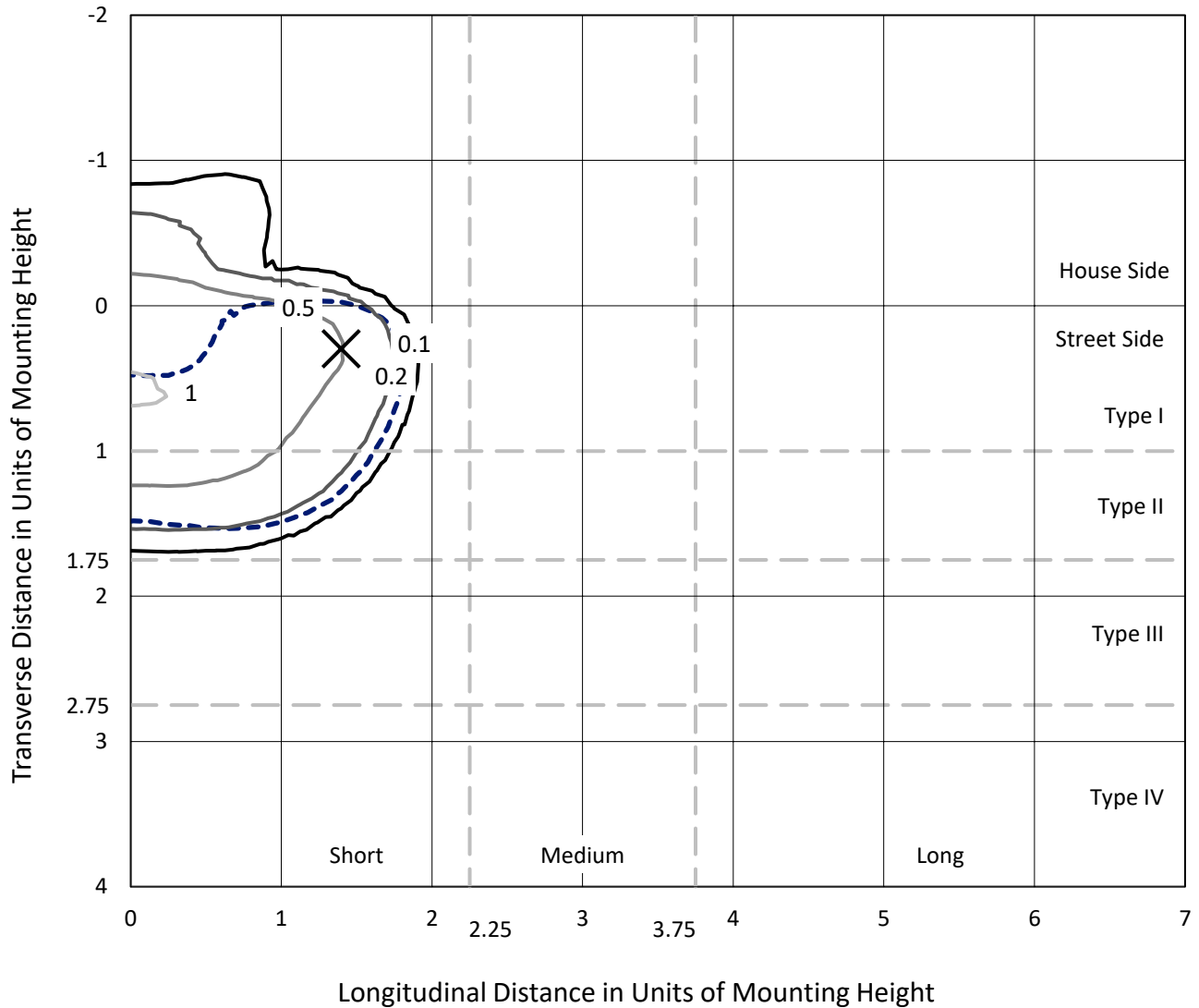
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526061
 CATALOG NUMBER: GALN-SA1A-727-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

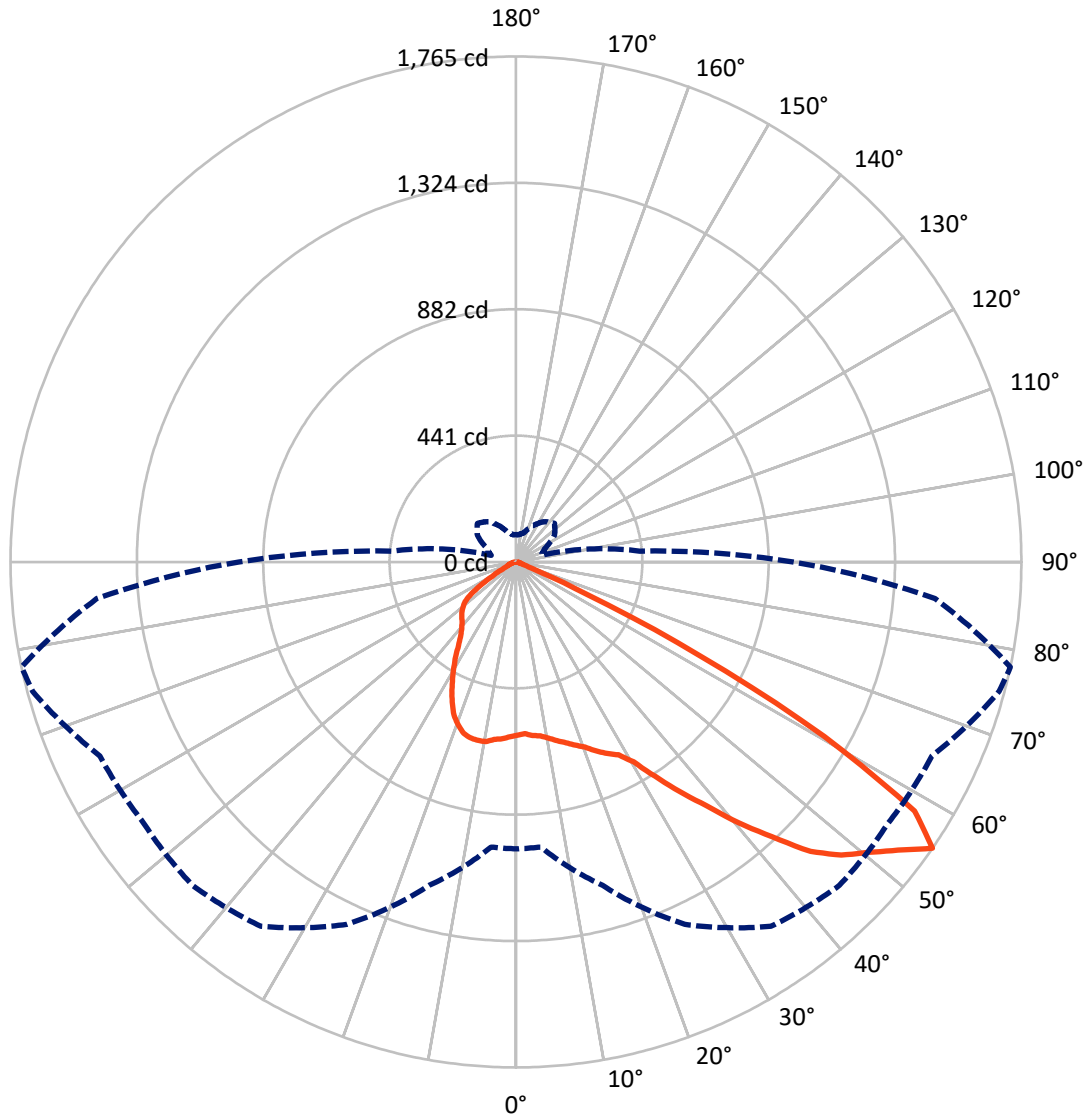
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - N/A

REPORT NUMBER: P526061
CATALOG NUMBER: GALN-SA1A-727-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA1A-727-U-T3R-GRSBK

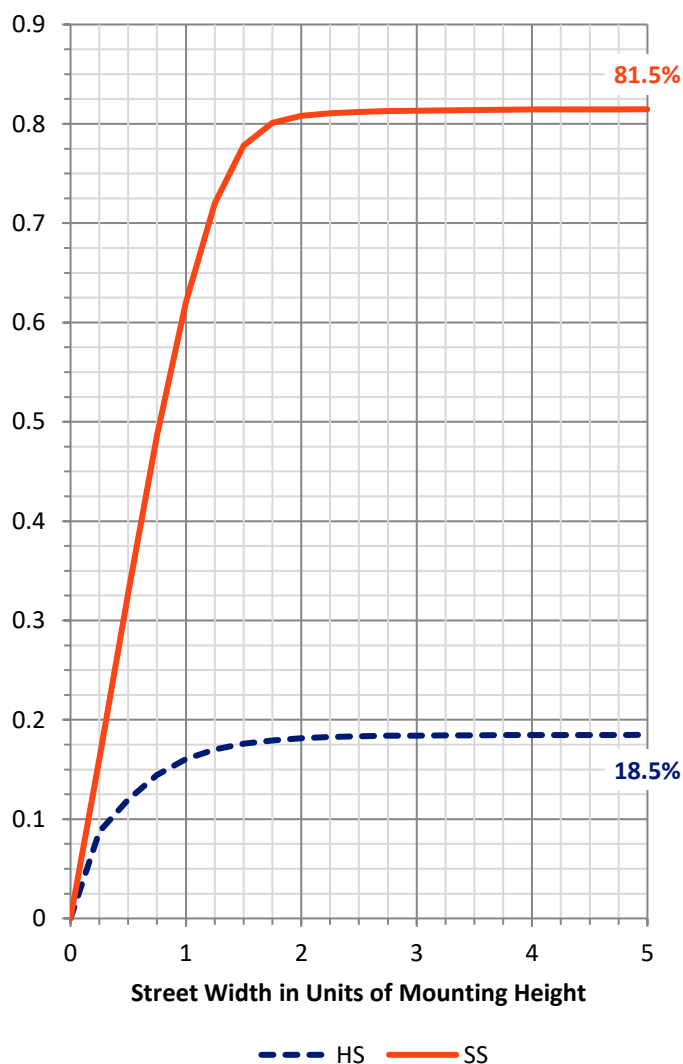
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.0	0.0	437.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	1916.0	0.0	1916.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	2353.0	0.0	2353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	2.3
10°-20°	142.8	6.1
20°-30°	250.2	10.6
30°-40°	412.6	17.5
40°-50°	600.4	25.5
50°-60°	680.3	28.9
60°-70°	194.5	8.3
70°-80°	15.1	0.6
80°-90°	3.1	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°	2353.0	100.0
0°-180°	2353.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526061

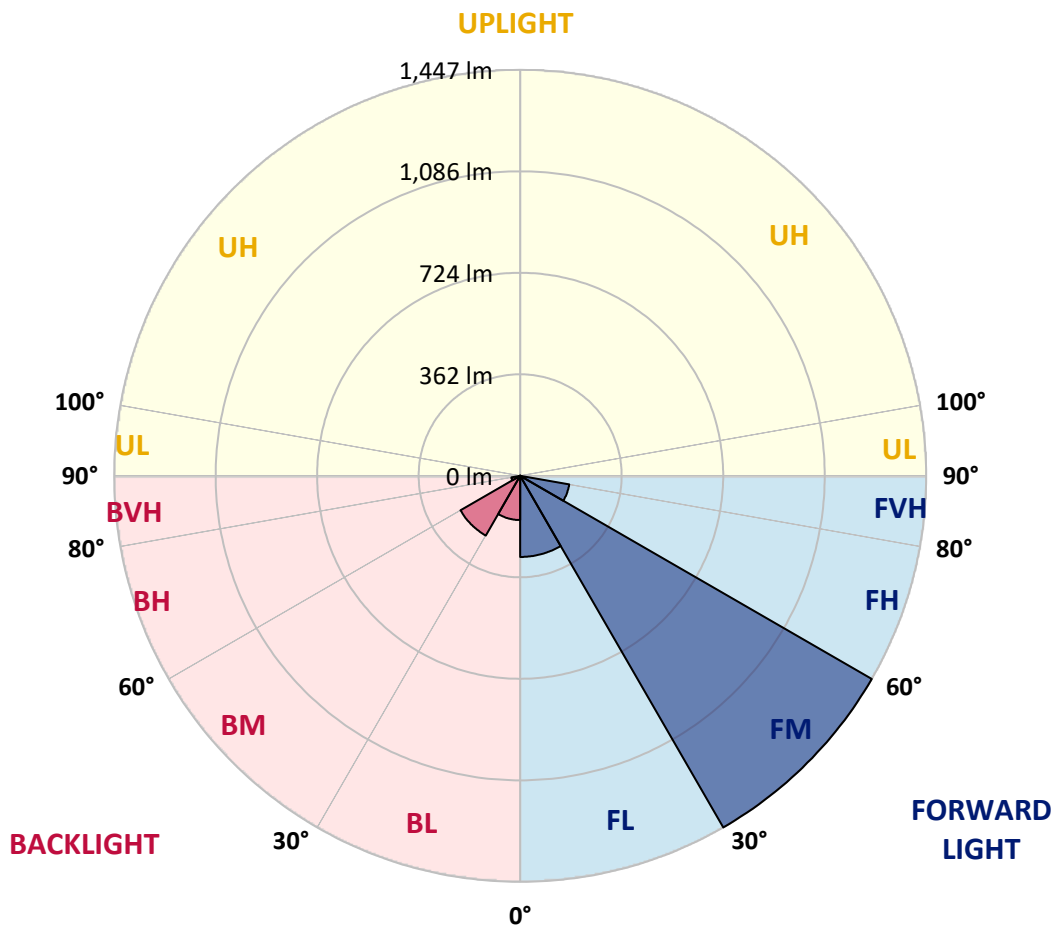
CATALOG NUMBER: GALN-SA1A-727-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.3	12.3			
FM (30°-60°)	1447.5	61.5			
FH (60°-80°)	177.7	7.6			G0/660
FVH (80°-90°)	1.5	0.1			G0/10
BL (0°-30°)	157.7	6.7	B1/500		
BM (30°-60°)	245.8	10.4	B1/1000		
BH (60°-80°)	31.9	1.4	B0/110		G0/110
BVH (80°-90°)	1.6	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: P526061

CATALOG NUMBER: GALN-SA1A-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
2.5°	568.8	574.2	575.1	581.8	581.4	592.8	596.1	596.5	604.1	600.3	610.0
5°	552.8	549.8	548.6	560.4	563.7	573.8	582.2	587.3	602.9	608.3	618.4
7.5°	538.5	538.5	539.3	549.8	548.6	561.6	570.5	586.0	608.7	613.4	625.6
10°	524.6	519.6	525.9	536.8	546.1	552.0	570.5	585.2	611.7	625.2	642.0
12.5°	517.5	520.0	520.8	528.8	538.9	556.6	566.7	591.1	632.7	640.7	658.8
15°	562.5	557.4	545.2	538.1	546.5	554.9	580.1	605.0	643.7	655.0	675.2
17.5°	614.6	610.4	600.3	581.0	562.0	577.6	597.4	620.1	655.4	672.3	702.1
20°	682.8	676.1	666.0	628.1	611.7	594.9	615.9	642.8	674.8	689.9	720.6
22.5°	764.0	764.0	741.3	695.4	661.3	645.3	654.2	669.7	696.2	716.9	747.2
25°	848.5	846.0	825.4	777.9	720.2	701.3	711.4	722.3	729.5	740.8	761.0
27.5°	945.3	930.6	904.5	851.9	801.0	764.4	775.3	765.7	756.8	762.7	791.7
30°	1010.9	1020.2	986.9	936.5	888.5	847.7	849.8	841.4	801.0	809.4	826.7
32.5°	1079.1	1085.0	1066.5	1038.7	990.7	943.2	925.9	918.8	888.5	892.3	875.5
35°	1135.9	1147.2	1130.8	1118.6	1104.7	1066.5	1018.9	1042.1	993.3	984.0	940.3
37.5°	1188.0	1184.7	1204.0	1191.4	1188.5	1161.5	1109.4	1114.0	1081.2	1079.1	1028.6
40°	1234.7	1235.6	1262.1	1268.0	1256.2	1208.2	1132.5	1169.1	1195.6	1198.1	1133.3
42.5°	1273.4	1284.8	1307.5	1355.1	1337.4	1257.5	1156.5	1196.5	1294.9	1310.5	1232.6
45°	1307.1	1330.2	1358.4	1400.9	1390.8	1327.3	1216.2	1252.8	1400.9	1441.7	1326.0
47.5°	1309.2	1339.5	1370.2	1433.3	1445.9	1364.7	1278.1	1342.0	1485.0	1529.2	1394.2
50°	1300.8	1316.8	1378.2	1446.8	1475.4	1425.7	1364.7	1416.9	1566.7	1594.4	1428.7
52.5°	1201.1	1213.3	1336.5	1459.4	1528.4	1494.7	1479.6	1521.2	1650.0	1670.6	1461.1
55°	1001.3	999.1	1168.7	1395.9	1552.8	1597.0	1587.7	1602.4	1746.3	1764.8	1469.1
57.5°	684.9	723.2	869.6	1162.4	1403.4	1573.0	1582.7	1558.2	1634.0	1641.1	1280.6
60°	369.4	385.4	503.1	775.8	1068.6	1281.9	1307.1	1262.9	1257.0	1236.8	914.2
62.5°	146.8	154.8	221.7	384.1	582.2	779.1	833.4	815.3	776.6	723.6	473.3
65°	69.8	74.9	110.2	179.6	258.3	324.8	379.0	395.9	292.0	262.9	156.1
67.5°	47.5	51.3	80.4	102.6	92.1	96.3	125.4	116.5	68.6	58.5	43.3
70°	36.2	38.7	64.4	69.8	41.2	29.0	32.4	30.3	28.2	28.6	28.2
72.5°	25.7	27.8	47.1	41.2	18.1	13.5	17.2	20.6	20.6	20.6	20.2
75°	15.6	17.7	27.3	16.0	7.2	7.2	10.9	13.9	14.7	15.1	14.3
77.5°	8.0	10.1	9.3	4.6	4.6	5.5	8.0	9.7	10.5	10.5	10.1
80°	1.7	1.7	1.7	2.5	4.6	5.9	8.0	8.8	10.1	10.1	9.3
82.5°	0.0	0.4	1.3	2.5	4.2	5.5	7.6	8.8	10.1	10.5	9.7
85°	0.0	0.4	0.8	1.7	2.9	3.4	2.9	2.5	2.5	2.5	2.5
87.5°	0.0	0.0	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8
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: P526061

CATALOG NUMBER: GALN-SA1A-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
2.5°	610.8	612.1	610.0	609.6	607.9	613.0	600.8	597.8	605.4	598.2	599.9
5°	618.8	621.8	618.0	611.7	602.4	588.1	575.9	559.9	552.4	546.9	546.1
7.5°	624.7	626.8	623.0	602.9	575.1	538.9	512.0	492.2	476.6	472.0	464.4
10°	648.7	649.1	630.2	585.6	531.3	483.8	442.6	412.3	396.7	387.0	382.8
12.5°	664.7	663.9	625.6	551.5	479.2	416.1	368.9	332.3	318.0	313.4	310.5
15°	684.9	680.3	614.6	516.6	411.9	343.7	301.2	276.0	274.7	271.8	274.7
17.5°	700.9	687.8	598.6	453.1	347.5	283.1	255.4	257.0	260.4	263.4	263.8
20°	727.0	700.0	562.0	397.6	287.8	242.7	242.3	249.9	258.3	261.7	265.0
22.5°	746.7	705.1	522.9	338.2	239.0	226.3	233.5	244.8	251.2	254.5	259.6
25°	753.9	691.2	470.8	278.9	215.4	218.8	229.7	237.3	245.3	249.1	246.9
27.5°	761.0	684.0	408.5	229.7	202.8	213.7	223.0	230.5	233.1	238.1	241.5
30°	778.3	659.2	352.5	198.6	196.5	210.3	217.1	219.6	226.3	229.3	229.3
32.5°	792.2	649.6	293.2	183.8	195.6	212.0	212.9	212.9	213.7	211.6	210.8
35°	820.8	616.3	240.2	175.0	195.2	212.5	214.6	207.4	188.1	180.5	178.4
37.5°	856.1	594.9	201.1	172.9	198.1	217.5	220.9	193.9	168.7	156.5	154.4
40°	899.0	579.7	175.4	172.1	204.9	229.3	219.2	183.4	150.6	132.9	132.1
42.5°	949.1	565.8	158.2	171.6	213.3	241.5	217.5	174.6	132.1	120.3	122.0
45°	989.1	558.3	146.4	168.7	216.2	248.6	218.8	159.0	124.5	117.0	117.8
47.5°	1020.2	542.3	136.7	163.6	215.8	251.2	207.4	152.7	120.7	122.8	124.9
50°	1021.0	520.8	124.5	152.7	209.5	246.5	194.4	146.8	119.9	128.7	132.9
52.5°	1009.7	490.5	111.5	137.1	194.8	230.5	182.6	144.3	116.1	115.3	120.3
55°	969.3	433.7	89.6	111.1	164.5	190.2	172.1	139.7	104.8	95.1	95.9
57.5°	783.3	310.9	66.0	79.5	116.5	139.2	155.2	137.6	94.2	80.8	81.2
60°	485.1	176.3	48.4	54.3	71.9	84.6	125.8	127.9	84.1	68.2	67.3
62.5°	249.1	87.1	37.4	38.3	44.2	49.6	86.2	107.3	76.1	64.8	64.8
65°	83.3	42.9	32.8	29.4	29.4	30.7	52.2	74.5	64.4	54.3	54.3
67.5°	35.8	32.0	28.6	25.7	23.6	22.3	29.4	43.3	48.0	41.2	39.5
70°	27.8	26.9	24.8	21.5	18.5	16.8	17.2	22.3	27.3	26.5	25.7
72.5°	20.6	20.6	19.8	16.8	14.3	12.2	11.4	11.8	13.0	13.5	13.9
75°	14.3	14.7	14.7	13.0	10.5	8.8	7.6	6.3	5.0	4.2	3.8
77.5°	9.7	10.1	10.9	9.7	8.0	5.9	4.6	3.4	2.1	0.8	0.8
80°	8.4	9.7	10.5	9.7	8.4	6.3	4.6	2.5	1.3	0.0	0.0
82.5°	8.8	9.7	10.9	9.3	8.0	5.9	4.6	2.9	1.3	0.4	0.0
85°	2.1	2.1	2.5	2.9	3.8	4.2	3.4	2.1	1.3	0.4	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	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)