

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: P527231

Luminaire Tested: **GALN-SA2B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527231
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-SA2B-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5820 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

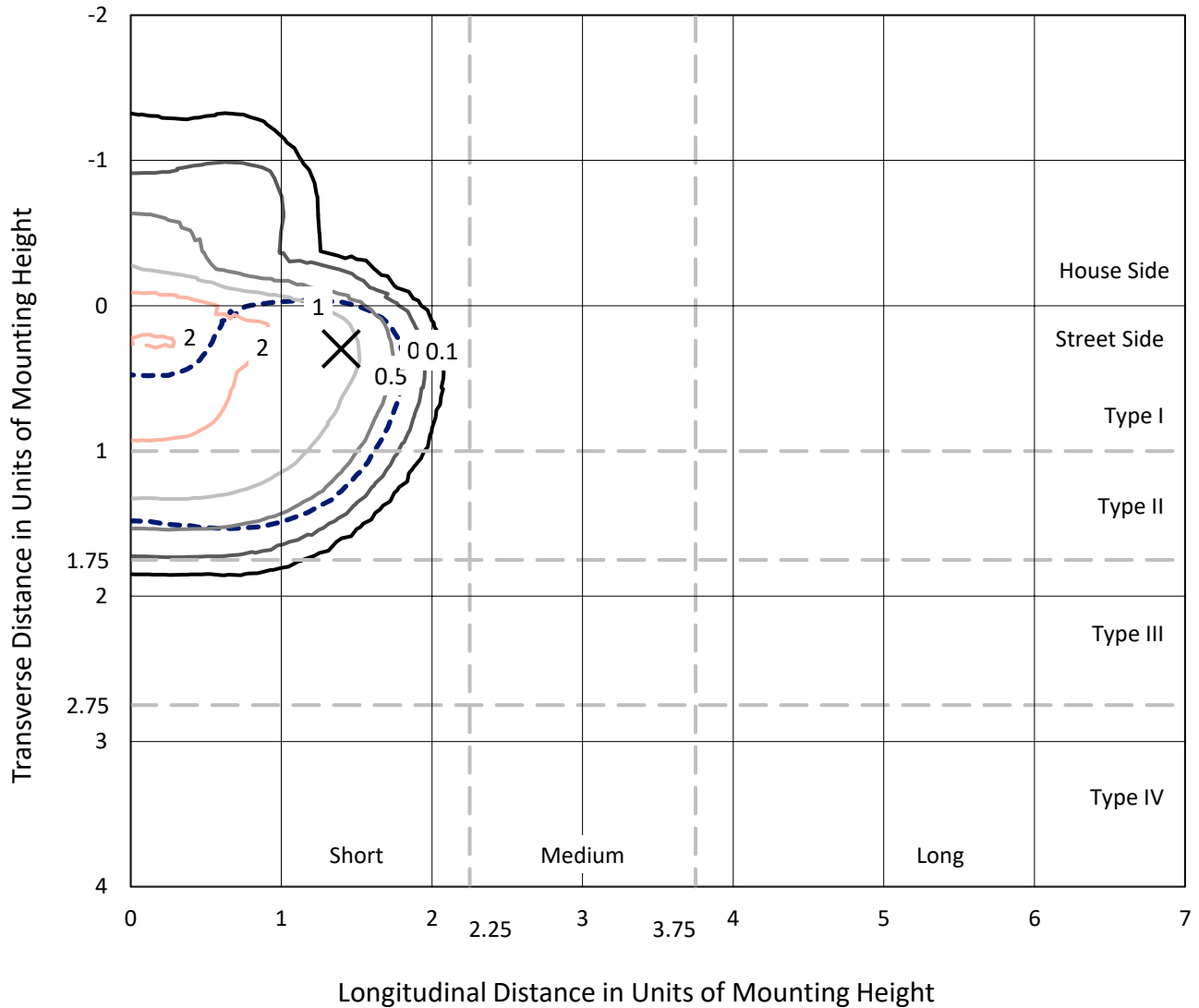
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527231
 CATALOG NUMBER: GALN-SA2B-727-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

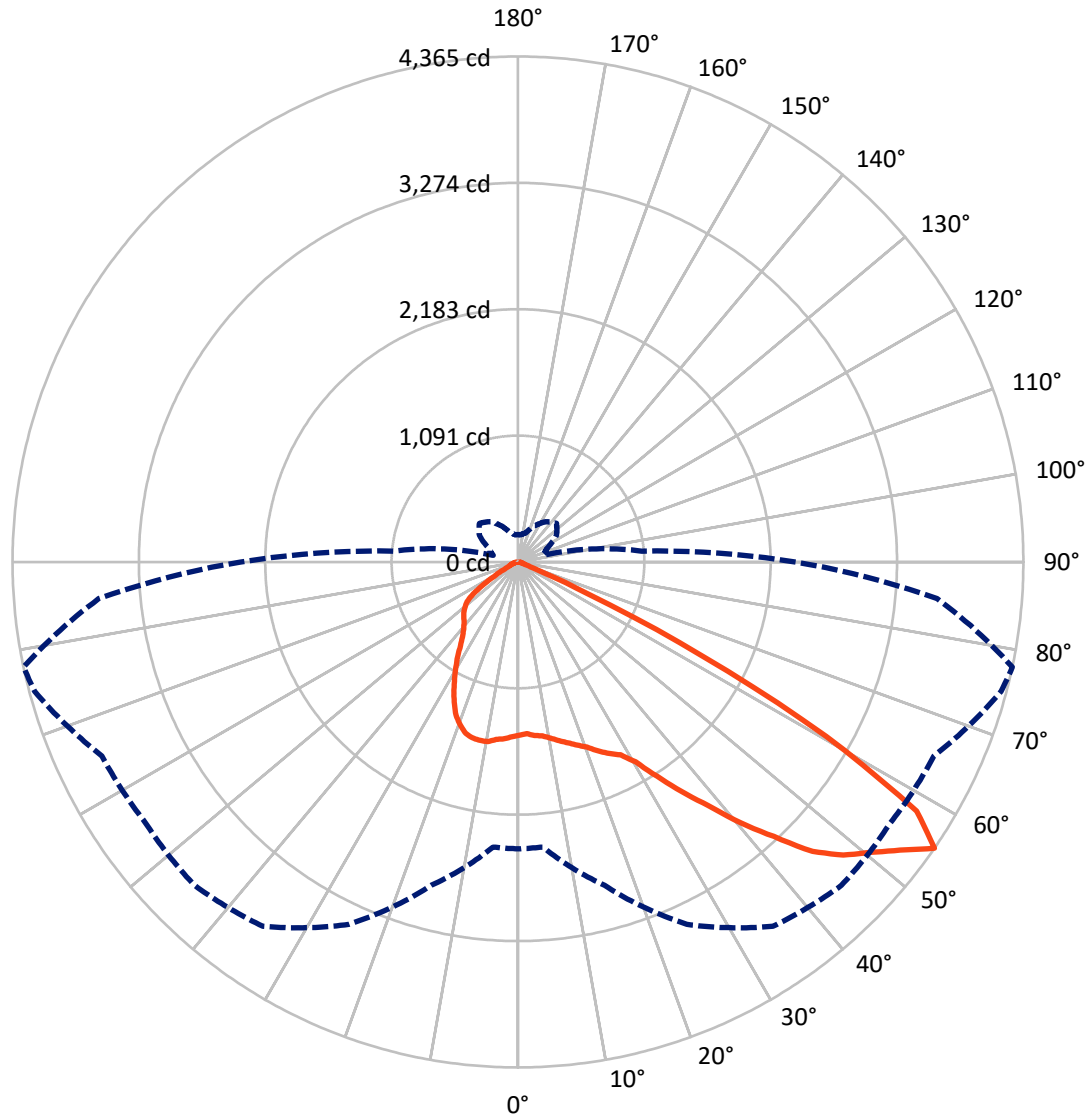
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

REPORT NUMBER: P527231
CATALOG NUMBER: GALN-SA2B-727-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P527231

CATALOG NUMBER: GALN-SA2B-727-U-T3R-GRSBK

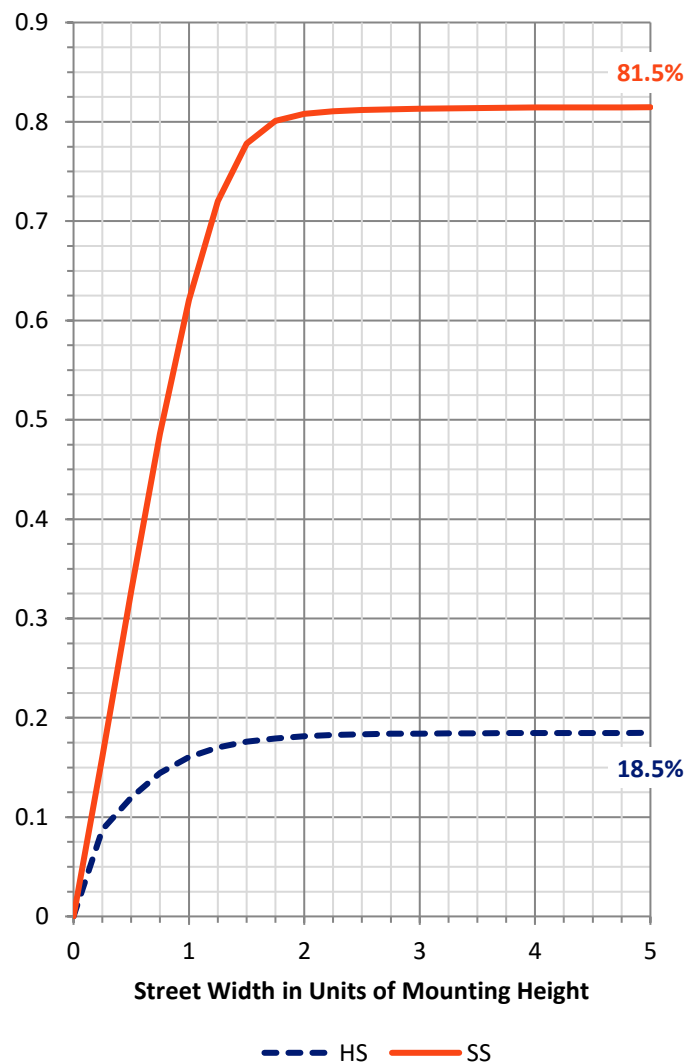
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1081.0	0.0	1081.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4739.0	0.0	4739.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	5820.0	0.0	5820.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	2.3
10°-20°	353.1	6.1
20°-30°	618.9	10.6
30°-40°	1020.6	17.5
40°-50°	1485.0	25.5
50°-60°	1682.7	28.9
60°-70°	481.1	8.3
70°-80°	37.4	0.6
80°-90°	7.8	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°	5820.0	100.0
0°-180°	5820.0	100.0



REPORT NUMBER: P527231

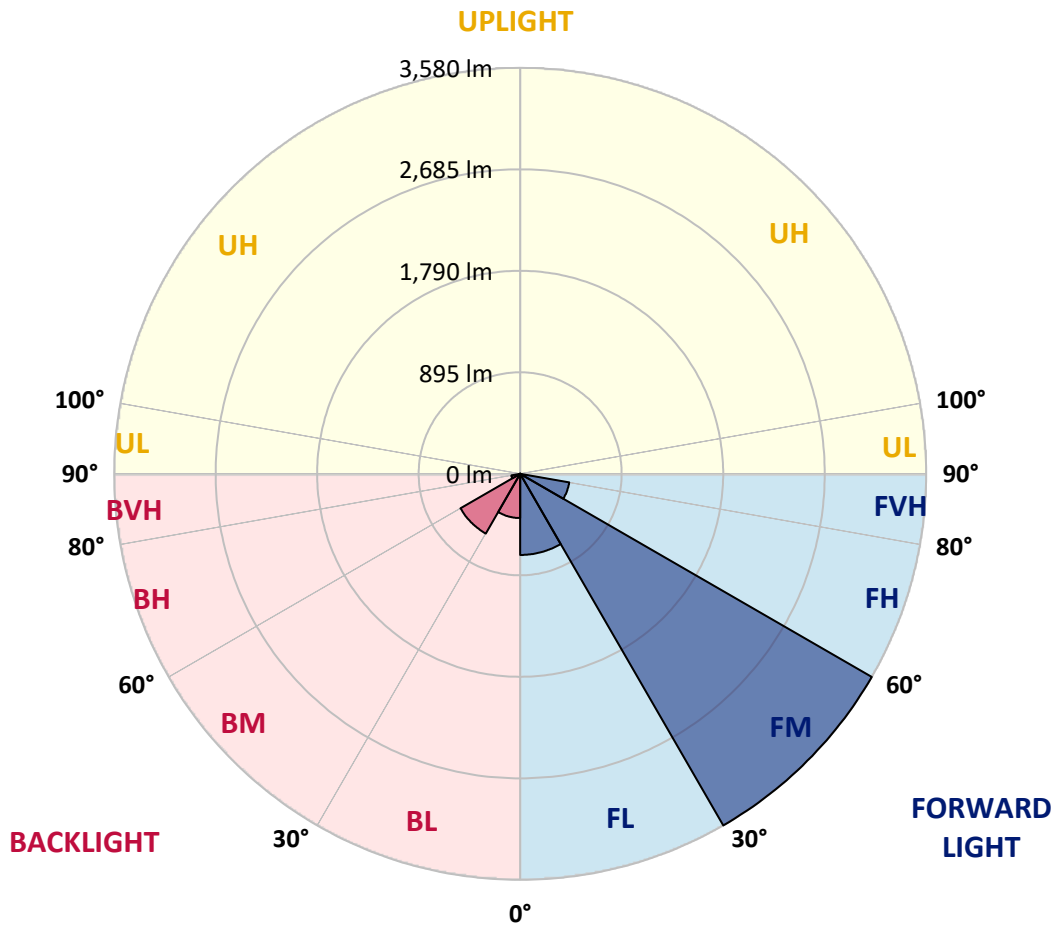
CATALOG NUMBER: GALN-SA2B-727-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.4	12.3			
FM (30°-60°)	3580.2	61.5			
FH (60°-80°)	439.6	7.6			G0/660
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	390.0	6.7	B1/500		
BM (30°-60°)	608.1	10.4	B1/1000		
BH (60°-80°)	78.9	1.4	B0/110		G0/110
BVH (80°-90°)	4.0	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: P527231

CATALOG NUMBER: GALN-SA2B-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3
2.5°	1406.8	1420.4	1422.4	1439.1	1438.1	1466.1	1474.5	1475.5	1494.2	1484.9	1508.8
5°	1367.3	1360.0	1356.9	1386.0	1394.4	1419.3	1440.1	1452.6	1491.1	1504.6	1529.6
7.5°	1331.9	1331.9	1334.0	1360.0	1356.9	1389.1	1411.0	1449.5	1505.7	1517.1	1547.3
10°	1297.6	1285.1	1300.7	1327.8	1350.6	1365.2	1411.0	1447.4	1513.0	1546.3	1587.9
12.5°	1279.9	1286.1	1288.2	1308.0	1333.0	1376.7	1401.6	1462.0	1565.0	1584.8	1629.5
15°	1391.2	1378.7	1348.6	1330.9	1351.7	1372.5	1434.9	1496.3	1592.1	1620.2	1670.1
17.5°	1520.3	1509.9	1484.9	1437.0	1390.2	1428.7	1477.6	1533.8	1621.2	1662.8	1736.7
20°	1688.8	1672.2	1647.2	1553.6	1513.0	1471.4	1523.4	1590.0	1669.1	1706.5	1782.5
22.5°	1889.7	1889.7	1833.5	1720.0	1635.8	1596.2	1618.1	1656.6	1722.1	1773.1	1848.0
25°	2098.8	2092.6	2041.6	1924.0	1781.4	1734.6	1759.6	1786.6	1804.3	1832.4	1882.4
27.5°	2338.1	2301.7	2237.2	2107.1	1981.2	1890.7	1917.8	1893.8	1872.0	1886.5	1958.3
30°	2500.5	2523.4	2441.2	2316.3	2197.7	2096.7	2101.9	2081.1	1981.2	2002.0	2044.7
32.5°	2669.0	2683.6	2637.8	2569.1	2450.5	2332.9	2290.3	2272.6	2197.7	2207.0	2165.4
35°	2809.5	2837.6	2797.0	2766.8	2732.5	2637.8	2520.2	2577.5	2456.8	2433.9	2325.7
37.5°	2938.5	2930.2	2978.1	2946.9	2939.6	2873.0	2744.0	2755.4	2674.2	2669.0	2544.2
40°	3054.0	3056.1	3121.7	3136.2	3107.1	2988.5	2801.2	2891.7	2957.3	2963.5	2803.3
42.5°	3149.8	3177.9	3234.1	3351.6	3307.9	3110.2	2860.5	2959.4	3202.8	3241.3	3048.8
45°	3233.0	3290.3	3360.0	3465.1	3440.1	3283.0	3008.3	3098.8	3465.1	3566.0	3279.8
47.5°	3238.2	3313.1	3389.1	3545.2	3576.4	3375.6	3161.2	3319.4	3673.2	3782.4	3448.4
50°	3217.4	3257.0	3408.9	3578.5	3649.2	3526.5	3375.6	3504.6	3875.0	3943.7	3533.7
52.5°	2970.8	3001.0	3305.9	3609.7	3780.4	3697.1	3659.6	3762.7	4081.1	4132.1	3613.9
55°	2476.5	2471.3	2890.7	3452.6	3840.7	3950.0	3927.1	3963.5	4319.4	4365.1	3633.6
57.5°	1694.0	1788.7	2150.8	2875.1	3471.3	3890.7	3914.6	3854.2	4041.5	4059.2	3167.5
60°	913.6	953.2	1244.5	1918.8	2643.0	3170.6	3233.0	3123.8	3109.2	3059.2	2261.1
62.5°	363.2	382.9	548.4	950.0	1440.1	1927.1	2061.3	2016.6	1920.9	1789.8	1170.6
65°	172.7	185.2	272.6	444.3	638.9	803.3	937.5	979.2	722.1	650.4	386.0
67.5°	117.6	126.9	198.7	253.9	227.9	238.3	310.1	288.2	169.6	144.6	107.2
70°	89.5	95.7	159.2	172.7	102.0	71.8	80.1	74.9	69.7	70.8	69.7
72.5°	63.5	68.7	116.5	102.0	44.7	33.3	42.7	51.0	51.0	51.0	49.9
75°	38.5	43.7	67.6	39.5	17.7	17.7	27.1	34.3	36.4	37.5	35.4
77.5°	19.8	25.0	22.9	11.4	11.4	13.5	19.8	23.9	26.0	26.0	25.0
80°	4.2	4.2	4.2	6.2	11.4	14.6	19.8	21.9	25.0	25.0	22.9
82.5°	0.0	1.0	3.1	6.2	10.4	13.5	18.7	21.9	25.0	26.0	23.9
85°	0.0	1.0	2.1	4.2	7.3	8.3	7.3	6.2	6.2	6.2	6.2
87.5°	0.0	0.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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: P527231

CATALOG NUMBER: GALN-SA2B-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3	1496.3
2.5°	1510.9	1514.0	1508.8	1507.8	1503.6	1516.1	1485.9	1478.6	1497.4	1479.7	1483.8
5°	1530.7	1537.9	1528.6	1513.0	1490.1	1454.7	1424.5	1385.0	1366.3	1352.7	1350.6
7.5°	1545.2	1550.4	1541.1	1491.1	1422.4	1333.0	1266.4	1217.5	1179.0	1167.5	1148.8
10°	1604.5	1605.6	1558.8	1448.5	1314.2	1196.6	1094.7	1019.7	981.2	957.3	946.9
12.5°	1644.1	1642.0	1547.3	1364.2	1185.2	1029.1	912.6	822.0	786.7	775.2	767.9
15°	1694.0	1682.6	1520.3	1277.8	1018.7	850.1	745.0	682.6	679.5	672.2	679.5
17.5°	1733.6	1701.3	1480.7	1120.7	859.5	700.3	631.6	635.8	644.1	651.4	652.4
20°	1798.1	1731.5	1390.2	983.3	711.7	600.4	599.4	618.1	638.9	647.2	655.6
22.5°	1847.0	1744.0	1293.4	836.6	591.0	559.8	577.5	605.6	621.2	629.5	642.0
25°	1864.7	1709.6	1164.4	689.9	532.8	541.1	568.1	586.9	606.6	616.0	610.8
27.5°	1882.4	1692.0	1010.4	568.1	501.5	528.6	551.5	570.2	576.5	589.0	597.3
30°	1925.0	1630.6	872.0	491.1	485.9	520.3	536.9	543.2	559.8	567.1	567.1
32.5°	1959.4	1606.6	725.3	454.7	483.9	524.4	526.5	526.5	528.6	523.4	521.3
35°	2030.1	1524.4	594.2	432.9	482.8	525.5	530.7	513.0	465.1	446.4	441.2
37.5°	2117.5	1471.4	497.4	427.7	490.1	538.0	546.3	479.7	417.3	387.1	381.9
40°	2223.7	1433.9	433.9	425.6	506.8	567.1	542.1	453.7	372.5	328.8	326.7
42.5°	2347.5	1399.6	391.3	424.5	527.6	597.3	538.0	431.8	326.7	297.6	301.8
45°	2446.4	1380.8	362.1	417.3	534.8	615.0	541.1	393.3	308.0	289.3	291.4
47.5°	2523.4	1341.3	338.2	404.8	533.8	621.2	513.0	377.7	298.6	303.8	309.0
50°	2525.4	1288.2	308.0	377.7	518.2	609.8	480.7	363.2	296.6	318.4	328.8
52.5°	2497.3	1213.3	275.7	339.2	481.8	570.2	451.6	356.9	287.2	285.1	297.6
55°	2397.5	1072.8	221.6	274.7	406.9	470.3	425.6	345.5	259.1	235.2	237.2
57.5°	1937.5	769.0	163.4	196.7	288.2	344.4	384.0	340.3	233.1	199.8	200.8
60°	1199.8	436.0	119.7	134.2	177.9	209.2	311.1	316.3	208.1	168.6	166.5
62.5°	616.0	215.4	92.6	94.7	109.3	122.8	213.3	265.3	188.3	160.2	160.2
65°	206.0	106.1	81.2	72.8	72.8	76.0	129.0	184.2	159.2	134.2	134.2
67.5°	88.4	79.1	70.8	63.5	58.3	55.1	72.8	107.2	118.6	102.0	97.8
70°	68.7	66.6	61.4	53.1	45.8	41.6	42.7	55.1	67.6	65.6	63.5
72.5°	51.0	51.0	48.9	41.6	35.4	30.2	28.1	29.1	32.3	33.3	34.3
75°	35.4	36.4	36.4	32.3	26.0	21.9	18.7	15.6	12.5	10.4	9.4
77.5°	23.9	25.0	27.1	23.9	19.8	14.6	11.4	8.3	5.2	2.1	2.1
80°	20.8	23.9	26.0	23.9	20.8	15.6	11.4	6.2	3.1	0.0	0.0
82.5°	21.9	23.9	27.1	22.9	19.8	14.6	11.4	7.3	3.1	1.0	0.0
85°	5.2	5.2	6.2	7.3	9.4	10.4	8.3	5.2	3.1	1.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	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)