

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: P451502

Luminaire Tested: **GALN-SA2B-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8397 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

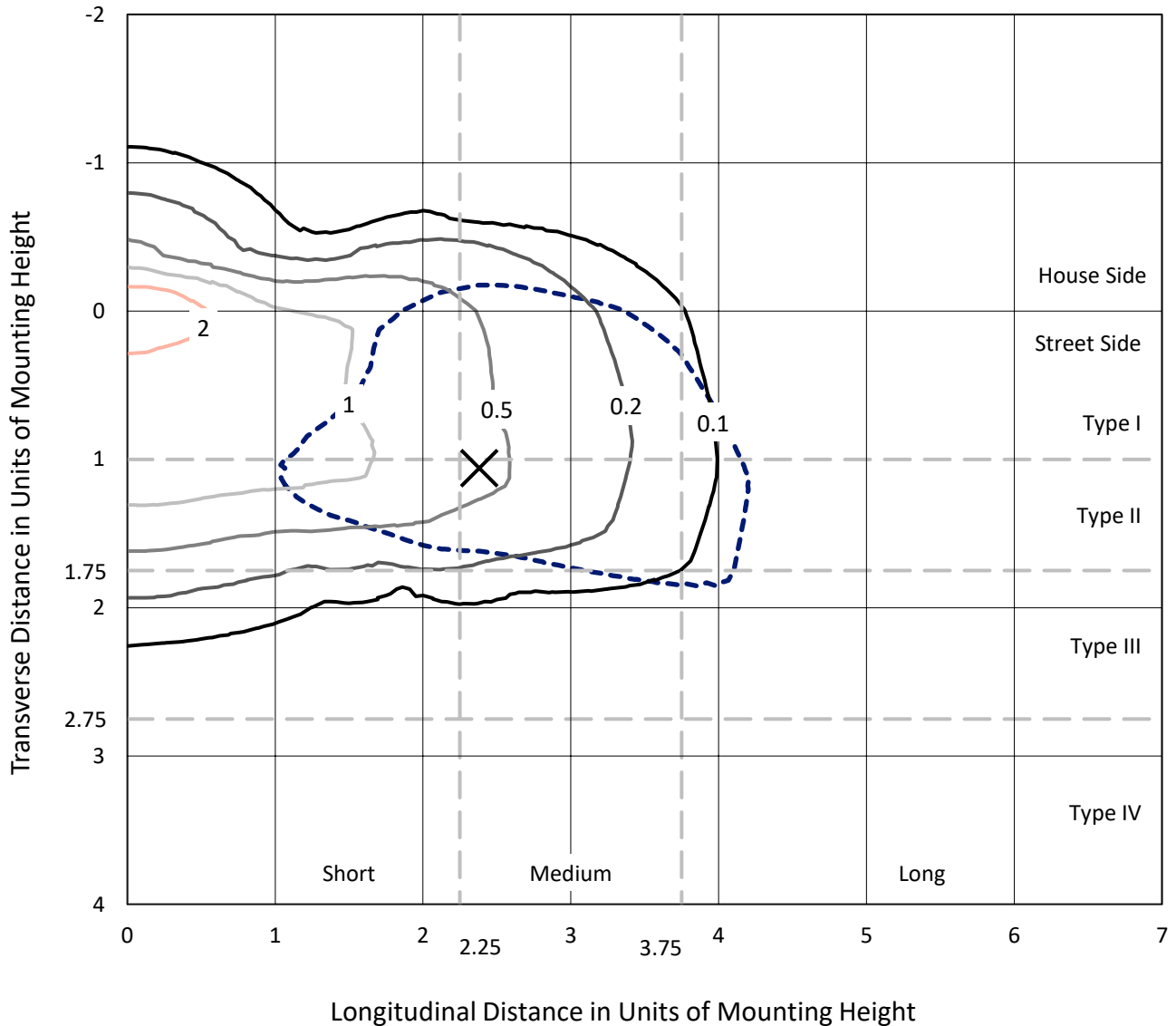
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451502
 CATALOG NUMBER: GALN-SA2B-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

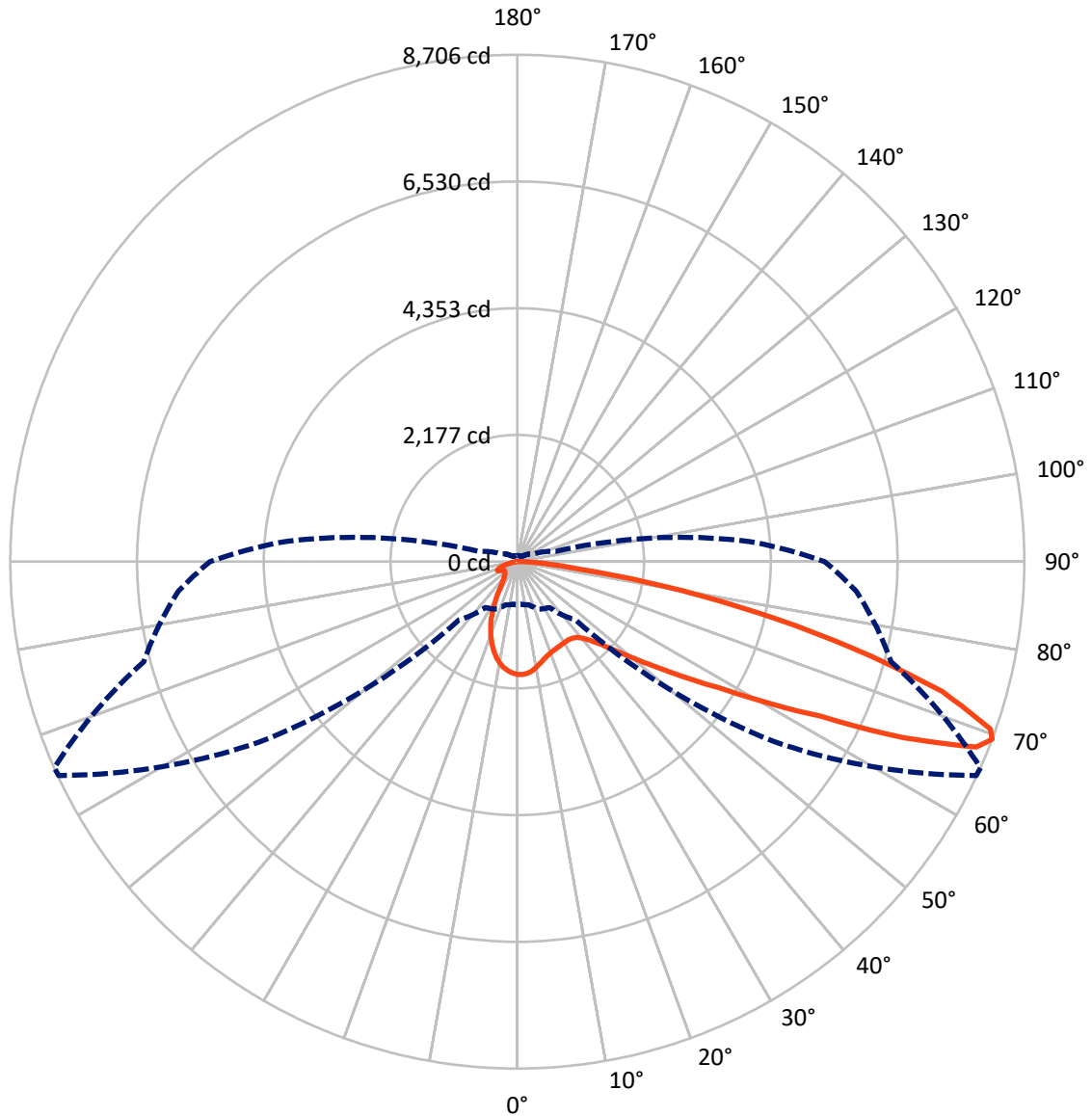
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P451502
CATALOG NUMBER: GALN-SA2B-827-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P451502

CATALOG NUMBER: GALN-SA2B-827-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.2	0.0	1579.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6817.8	0.0	6817.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	8397.0	0.0	8397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	2.0
10°-20°	399.4	4.8
20°-30°	543.7	6.5
30°-40°	730.7	8.7
40°-50°	1091.0	13.0
50°-60°	1735.4	20.7
60°-70°	2134.5	25.4
70°-80°	1388.8	16.5
80°-90°	205.1	2.4
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°	8397.0	100.0
0°-180°	8397.0	100.0

Coefficient of Utilization

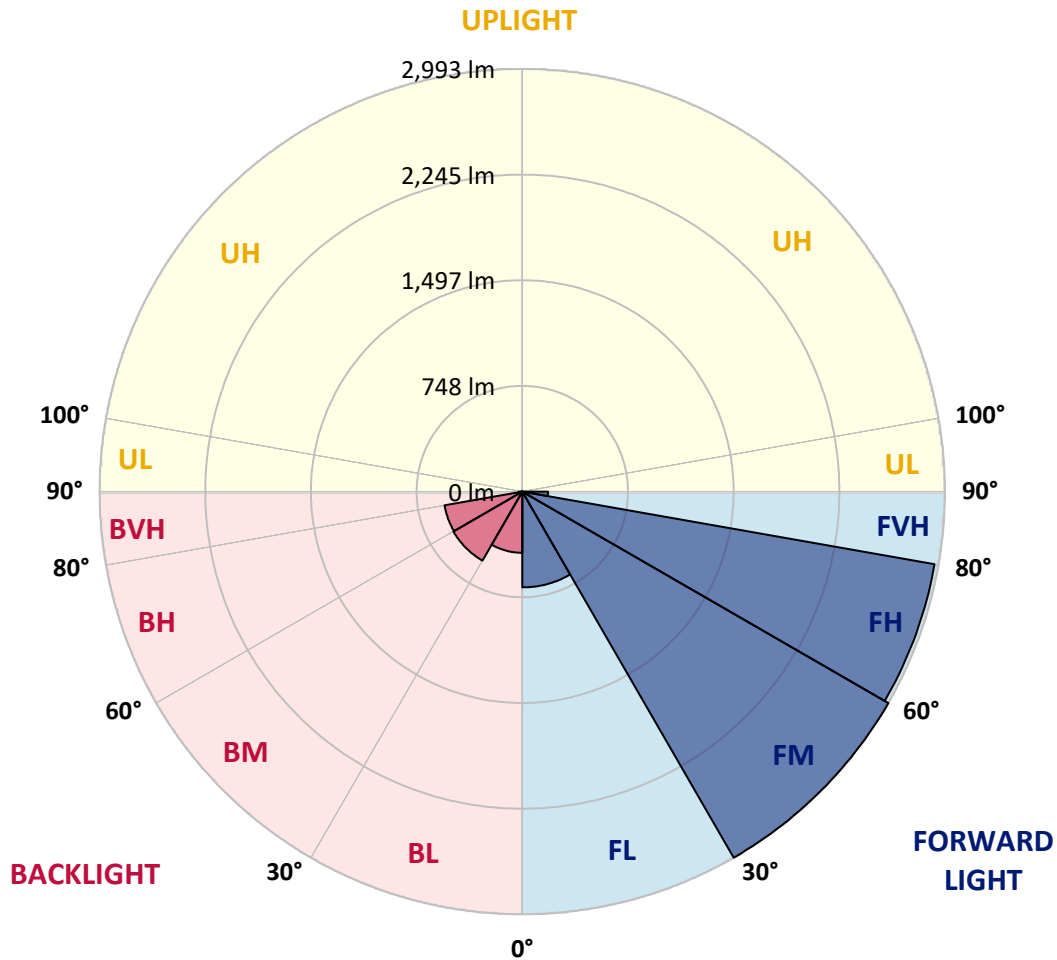


REPORT NUMBER: P451502
 CATALOG NUMBER: GALN-SA2B-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.0	8.1			
FM (30°-60°)	2993.3	35.6			
FH (60°-80°)	2964.2	35.3			G2/5000
FVH (80°-90°)	182.3	2.2			G2/225
BL (0°-30°)	433.5	5.2	B1/500		
BM (30°-60°)	563.8	6.7	B1/1000		
BH (60°-80°)	559.1	6.7	B2/1000		G2/1000
BVH (80°-90°)	22.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium





REPORT NUMBER: P451502
 CATALOG NUMBER: GALN-SA2B-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	1871.2	1878.6	1887.0	1896.3	1914.0	1923.8	1930.7	1938.6	1939.6	1943.8	1940.5
5°	1733.1	1741.9	1754.5	1772.2	1798.7	1840.1	1882.8	1917.7	1921.9	1941.4	1947.0
7.5°	1617.8	1622.9	1633.1	1661.5	1699.2	1745.2	1807.5	1878.2	1888.4	1934.9	1951.2
10°	1523.8	1529.0	1541.1	1570.3	1607.5	1665.2	1733.6	1826.6	1834.9	1914.9	1952.1
12.5°	1453.6	1458.3	1471.3	1500.1	1542.9	1596.9	1672.2	1770.8	1782.9	1888.4	1943.3
15°	1400.2	1409.0	1419.7	1443.4	1488.5	1540.6	1613.6	1719.6	1729.4	1860.5	1937.2
17.5°	1377.4	1381.6	1389.0	1410.8	1443.9	1495.0	1568.5	1679.6	1691.2	1841.0	1935.8
20°	1378.3	1382.5	1383.9	1396.0	1419.7	1463.9	1536.4	1648.0	1662.0	1823.8	1938.2
22.5°	1409.9	1410.4	1405.3	1401.1	1410.4	1447.1	1513.6	1624.3	1640.6	1816.3	1940.0
25°	1458.7	1467.1	1459.7	1440.1	1422.9	1440.6	1504.8	1611.3	1626.6	1805.6	1937.7
27.5°	1537.8	1539.2	1533.1	1506.6	1462.0	1449.0	1501.1	1601.5	1614.5	1797.7	1926.1
30°	1643.8	1639.6	1634.1	1604.8	1534.5	1481.1	1509.0	1592.7	1606.2	1786.1	1912.1
32.5°	1751.2	1764.3	1759.1	1724.7	1633.6	1543.4	1534.5	1591.7	1602.9	1777.3	1896.8
35°	1865.2	1871.2	1895.4	1877.7	1784.3	1644.3	1582.4	1606.2	1615.0	1777.7	1886.1
37.5°	1954.4	1970.7	2027.5	2042.8	1954.9	1777.7	1660.1	1647.1	1650.8	1800.5	1890.3
40°	2062.3	2090.2	2163.2	2226.0	2168.4	1951.2	1792.2	1722.9	1727.5	1855.4	1917.7
42.5°	2199.0	2218.6	2316.7	2401.8	2392.5	2180.4	1952.1	1847.0	1849.4	1964.7	1994.4
45°	2359.0	2386.9	2497.1	2625.0	2646.8	2439.9	2183.2	2034.9	2033.5	2134.4	2137.7
47.5°	2563.6	2580.8	2690.1	2829.6	2918.0	2765.9	2463.6	2304.6	2289.7	2381.8	2355.3
50°	2751.9	2778.9	2861.7	3014.2	3234.2	3147.7	2832.4	2654.3	2619.4	2705.4	2660.8
52.5°	2831.0	2859.4	2929.1	3118.4	3505.3	3641.5	3300.7	3071.4	3013.3	3079.3	3063.0
55°	2693.8	2730.6	2795.7	3025.8	3624.3	4211.1	3932.1	3553.6	3511.3	3482.9	3487.6
57.5°	2325.1	2359.9	2447.8	2701.7	3482.0	4624.5	4833.8	4173.5	4082.8	3952.1	3974.5
60°	1769.8	1791.7	1837.3	2118.6	3060.2	4732.0	5857.8	4957.0	4899.4	4419.5	4435.3
62.5°	1256.9	1281.6	1313.2	1453.6	2240.4	4429.2	6659.4	6051.2	5845.2	4903.6	4888.2
65°	1020.7	1004.0	1042.1	1107.7	1314.6	3432.7	6839.9	7569.9	7286.3	5541.1	5328.1
67.5°	839.3	821.7	859.3	976.1	999.8	1992.6	6189.8	8555.8	8499.0	6234.4	5775.0
69°	743.1	733.8	766.8	899.8	959.8	1415.0	5392.3	8692.9	8706.4	6643.2	5843.8
70°	669.6	673.3	705.4	861.2	941.6	1166.7	4608.7	8503.7	8618.1	6847.3	5769.4
72.5°	492.9	500.8	545.5	713.3	924.4	990.0	2742.6	7427.6	7629.9	6859.4	5277.9
75°	344.6	340.9	380.4	537.1	873.3	981.2	1610.8	5744.3	5973.5	5928.9	4434.8
77.5°	225.5	231.6	263.2	379.4	734.7	973.7	1050.0	4075.4	4224.2	3965.2	2623.1
80°	159.0	158.6	176.2	259.0	545.0	935.6	859.8	2568.7	2531.1	1558.3	778.0
82.5°	91.1	97.7	118.1	182.3	364.6	823.5	791.0	1228.6	1121.6	444.1	262.7
85°	50.7	53.0	70.2	110.2	213.0	620.3	690.5	558.9	527.3	185.5	113.0
87.5°	16.3	17.7	29.3	55.8	96.7	293.0	391.1	258.1	238.1	67.0	45.6
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: P451502
 CATALOG NUMBER: GALN-SA2B-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	1941.9	1947.5	1932.6	1918.2	1905.2	1887.0	1870.7	1857.3	1848.0	1846.6	1841.9
5°	1948.4	1948.9	1920.5	1882.4	1845.2	1804.2	1761.9	1731.7	1703.3	1687.5	1679.6
7.5°	1953.1	1948.9	1897.7	1835.9	1764.3	1689.9	1615.5	1555.9	1509.9	1491.8	1498.7
10°	1951.2	1938.2	1863.3	1764.3	1660.1	1549.0	1442.0	1358.3	1281.6	1242.0	1243.0
12.5°	1941.0	1919.6	1812.2	1683.8	1530.8	1382.0	1218.3	1105.3	1016.5	964.0	947.7
15°	1932.1	1894.9	1752.2	1574.5	1384.3	1171.8	972.3	832.8	758.4	717.0	716.6
17.5°	1922.8	1871.2	1686.6	1458.7	1216.0	942.6	733.3	626.8	592.0	596.1	589.2
20°	1913.1	1843.3	1618.2	1329.9	1010.9	703.1	549.2	505.9	515.7	534.8	537.6
22.5°	1901.9	1813.5	1544.8	1188.1	795.2	529.2	445.5	439.0	464.1	493.8	498.0
25°	1884.7	1776.3	1452.2	1039.8	613.4	426.4	390.1	394.8	419.4	444.6	447.3
27.5°	1860.5	1730.3	1358.8	854.7	460.8	366.0	356.7	362.7	374.8	390.1	393.9
30°	1828.0	1678.2	1251.3	694.7	369.2	335.7	332.0	335.3	342.2	348.8	350.6
32.5°	1795.4	1628.0	1143.0	532.0	329.2	315.7	312.0	312.0	312.0	313.0	313.4
35°	1765.2	1580.6	1026.7	414.3	308.3	299.9	294.8	289.2	288.3	285.1	285.1
37.5°	1748.4	1537.3	903.1	346.9	293.0	286.9	279.9	270.6	265.5	266.0	265.1
40°	1751.7	1509.0	790.5	308.8	280.4	273.9	263.2	252.5	249.2	249.2	248.3
42.5°	1788.4	1499.7	682.6	288.8	268.3	260.9	247.4	237.6	235.8	235.3	236.2
45°	1873.1	1522.4	585.9	275.8	258.1	246.9	233.4	224.6	222.7	222.7	222.3
47.5°	2038.1	1596.4	516.6	267.4	250.6	236.2	222.3	213.4	210.2	209.3	209.3
50°	2294.8	1756.8	465.0	259.9	241.3	226.5	212.0	201.8	196.7	196.2	195.8
52.5°	2651.5	2007.0	445.0	254.4	231.1	216.2	200.4	190.7	184.1	182.7	181.8
55°	3068.6	2356.2	472.5	250.2	220.4	204.6	188.3	178.1	172.1	169.3	168.8
57.5°	3551.8	2775.7	576.6	244.6	210.7	192.1	176.2	166.0	159.5	156.2	155.3
60°	3985.6	3206.7	758.4	241.3	202.3	178.6	162.3	153.0	146.9	143.7	143.2
62.5°	4462.3	3617.8	975.6	250.2	198.6	165.5	149.3	140.9	135.8	132.5	132.5
65°	4971.4	4029.3	1119.3	279.9	204.1	155.3	135.3	128.3	123.7	121.4	120.9
67.5°	5314.6	4171.6	922.1	310.6	218.1	144.2	121.8	116.3	113.5	111.1	111.1
69°	5277.4	3991.7	680.3	318.5	222.3	138.6	114.4	110.2	106.5	105.6	104.6
70°	5159.8	3786.6	570.1	313.4	219.0	133.5	109.7	104.6	101.4	100.4	100.0
72.5°	4595.7	3283.9	424.6	272.5	186.5	115.8	97.2	92.5	89.7	88.4	88.4
75°	3818.2	2684.1	331.6	216.7	146.0	97.7	83.2	79.5	77.2	76.3	75.8
77.5°	2140.0	1498.7	238.1	169.7	110.7	79.1	69.8	66.5	64.2	63.2	63.2
80°	596.1	428.3	140.0	112.1	75.3	60.0	55.3	53.0	49.8	47.4	48.8
82.5°	224.6	185.5	80.0	67.4	47.9	40.0	38.6	36.7	35.3	32.1	32.1
85°	109.3	90.2	51.2	35.8	26.5	20.9	20.0	19.1	18.1	15.8	16.3
87.5°	37.7	40.0	22.3	13.0	7.9	5.1	4.2	2.3	2.3	2.3	2.3
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)