

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: P526745

Luminaire Tested: **GALN-SA1D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4883 lumens
Efficiency: N/A
Efficacy: 75.1 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

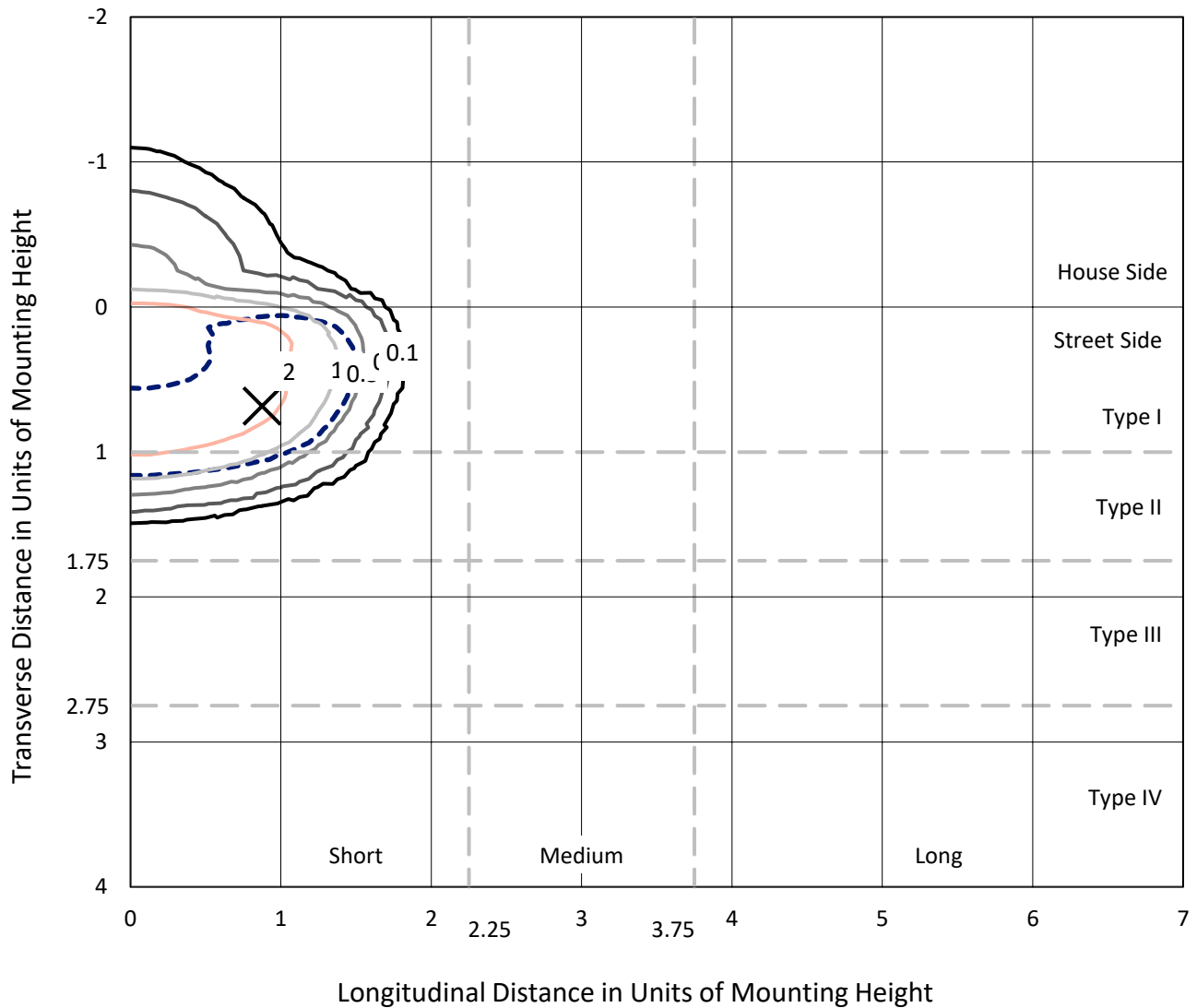
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526745
 CATALOG NUMBER: GALN-SA1D-727-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

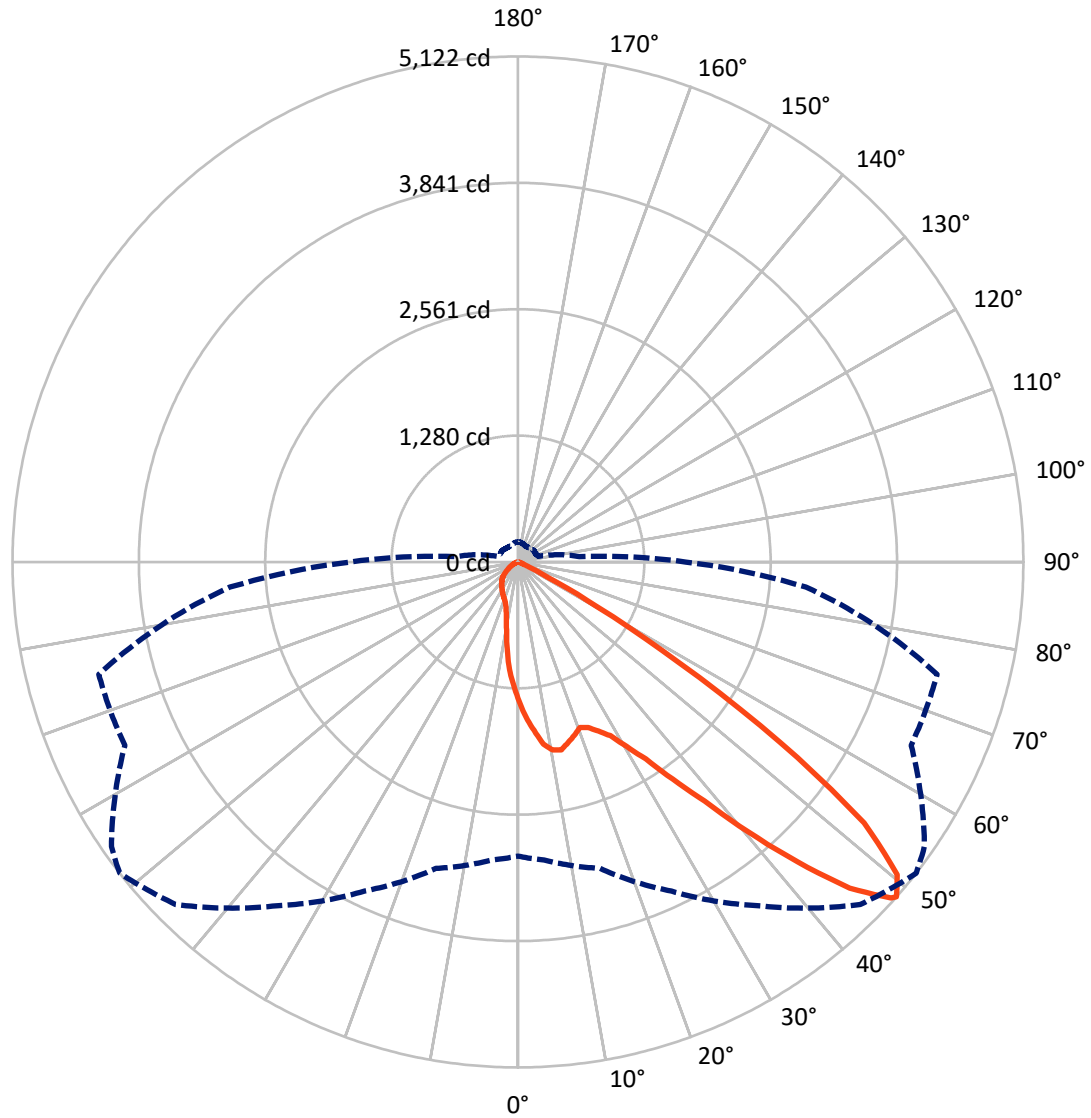
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

REPORT NUMBER: P526745
CATALOG NUMBER: GALN-SA1D-727-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P526745

CATALOG NUMBER: GALN-SA1D-727-U-AFL-GRSBK

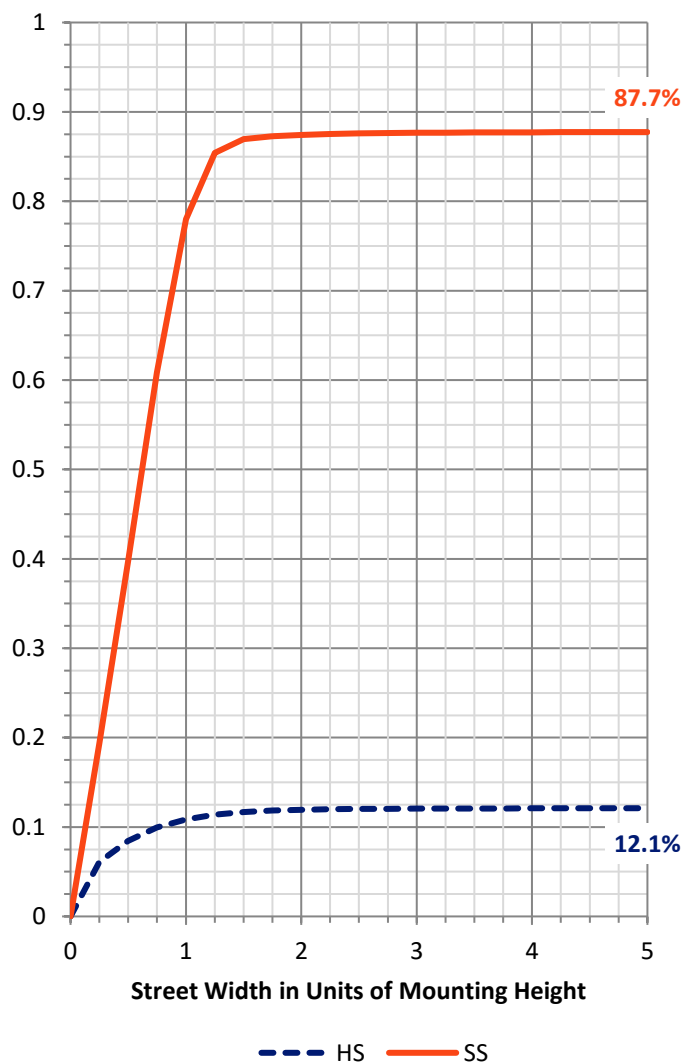
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.5	0.0	594.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4288.4	0.0	4288.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	4883.0	0.0	4883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	2.6
10°-20°	337.3	6.9
20°-30°	575.9	11.8
30°-40°	1060.5	21.7
40°-50°	1647.0	33.7
50°-60°	991.2	20.3
60°-70°	114.6	2.3
70°-80°	22.2	0.5
80°-90°	5.1	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°	4883.0	100.0
0°-180°	4883.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526745

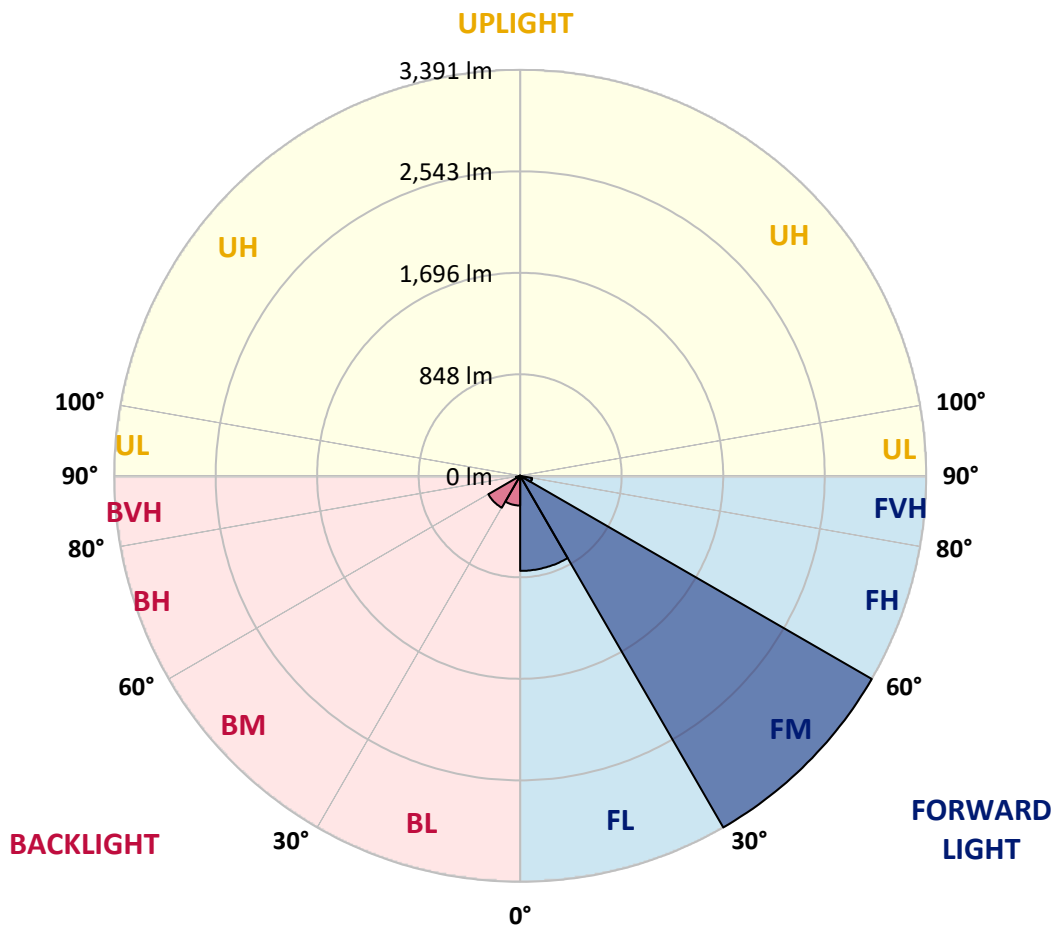
CATALOG NUMBER: GALN-SA1D-727-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.9	16.3			
FM (30°-60°)	3391.1	69.4			
FH (60°-80°)	101.0	2.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	248.4	5.1	B1/500		
BM (30°-60°)	307.6	6.3	B1/1000		
BH (60°-80°)	35.9	0.7	B0/110		G0/110
BVH (80°-90°)	2.7	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: P526745

CATALOG NUMBER: GALN-SA1D-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1709.1	1669.9	1673.5	1647.9	1632.9	1608.7	1576.0	1569.6	1534.0	1485.6	1436.5
5°	1862.9	1853.6	1865.7	1828.7	1830.1	1790.2	1713.4	1714.8	1632.9	1553.9	1477.8
7.5°	1872.8	1851.5	1863.6	1896.3	1915.5	1908.4	1865.0	1827.3	1749.7	1633.6	1522.6
10°	1677.1	1717.6	1730.5	1784.6	1861.4	1942.6	1937.6	1939.7	1875.0	1723.3	1561.0
12.5°	1559.6	1532.6	1576.0	1608.7	1724.8	1882.1	1954.0	1969.6	1974.6	1810.2	1599.5
15°	1506.2	1506.2	1513.3	1522.6	1606.6	1751.8	1898.4	1944.0	2051.5	1924.1	1660.0
17.5°	1539.7	1538.3	1548.2	1529.0	1560.3	1672.1	1847.2	1899.2	2137.6	2035.8	1707.7
20°	1641.5	1646.5	1640.0	1584.5	1586.7	1670.7	1790.2	1872.1	2196.0	2132.6	1771.0
22.5°	1783.1	1786.0	1749.7	1689.2	1671.4	1712.7	1823.0	1885.6	2243.0	2248.7	1790.2
25°	1946.8	1935.5	1928.3	1842.9	1788.8	1824.4	1897.0	1933.3	2272.2	2348.3	1845.1
27.5°	2173.9	2151.1	2107.7	2031.6	1991.7	1941.2	1993.1	2052.9	2355.4	2487.8	1904.8
30°	2509.2	2489.3	2404.6	2306.3	2201.7	2151.9	2168.2	2201.0	2505.6	2649.4	1983.9
32.5°	3013.9	2971.9	2849.4	2662.2	2519.9	2382.5	2378.2	2413.1	2640.2	2872.9	2077.8
35°	3569.8	3557.0	3376.9	3184.0	2908.5	2696.4	2700.0	2718.5	2897.8	3166.2	2201.0
37.5°	3939.3	4009.7	3895.1	3688.0	3456.6	3153.4	3076.5	3082.9	3251.6	3513.6	2423.1
40°	4224.7	4164.9	4178.4	4130.0	3972.0	3765.6	3595.4	3562.0	3660.9	3898.0	2643.7
42.5°	4100.1	4103.0	4186.3	4300.9	4340.0	4325.1	4151.4	4088.0	4011.1	4212.6	2853.7
45°	3748.5	3821.8	3930.0	4233.2	4499.5	4749.3	4715.1	4609.8	4253.2	4461.7	2974.7
47.5°	3187.6	3184.7	3362.0	3756.3	4347.8	4933.0	5088.1	5014.1	4424.7	4434.0	2949.8
48°	2980.4	3031.7	3214.6	3678.7	4251.7	4905.9	5121.6	5028.3	4395.5	4397.0	2928.5
50°	2203.1	2193.9	2421.6	2991.1	3797.6	4609.8	4980.7	5053.3	4394.8	4209.7	2779.0
52.5°	1163.8	1203.7	1369.6	1880.6	2685.0	3772.7	4393.4	4506.6	4239.6	3903.7	2564.0
55°	494.7	447.0	574.4	849.2	1510.5	2520.6	3223.2	3475.1	3584.8	3454.5	2243.0
57.5°	176.5	192.9	222.1	319.6	634.9	1379.5	1921.9	2117.7	2483.6	2534.8	1528.3
60°	113.2	115.3	124.6	146.6	238.5	531.7	911.9	1067.7	1233.6	1273.5	713.3
62.5°	87.6	88.3	92.5	96.1	113.2	206.4	342.4	405.7	421.4	362.3	187.2
65°	73.3	74.0	75.5	75.5	80.4	96.8	119.6	131.7	128.1	126.7	106.1
67.5°	56.2	57.7	60.5	60.5	63.4	59.1	66.2	70.5	79.7	96.8	90.4
70°	44.1	44.8	47.0	48.4	48.4	42.7	47.7	52.0	58.4	71.9	71.2
72.5°	34.2	35.6	37.0	37.0	34.9	29.2	34.2	37.7	42.0	49.8	48.4
75°	26.3	26.3	27.0	22.1	17.1	14.9	20.6	24.9	31.3	32.7	27.0
77.5°	7.1	7.8	7.1	6.4	7.1	10.7	13.5	15.7	19.9	19.9	17.8
80°	0.0	0.7	2.1	4.3	7.1	10.0	12.1	13.5	15.7	17.1	16.4
82.5°	0.0	0.7	2.1	4.3	6.4	7.8	10.7	11.4	12.8	14.9	14.9
85°	0.0	0.7	1.4	2.8	4.3	5.0	5.0	4.3	4.3	3.6	2.8
87.5°	0.0	0.0	0.7	1.4	1.4	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: P526745

CATALOG NUMBER: GALN-SA1D-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1417.2	1395.2	1361.7	1309.0	1258.5	1225.8	1194.4	1159.6	1140.3	1138.9	1128.2
5°	1434.3	1384.5	1304.8	1214.4	1117.6	1034.3	950.3	895.5	846.4	819.3	814.3
7.5°	1443.6	1378.8	1250.0	1098.3	933.2	797.2	703.3	634.2	607.2	587.3	586.5
10°	1462.8	1368.8	1168.1	944.6	740.3	602.9	538.1	506.8	491.9	486.2	477.6
12.5°	1477.0	1350.3	1084.1	786.6	585.1	499.7	471.2	464.1	464.8	467.7	464.1
15°	1497.0	1334.0	970.9	645.6	491.2	449.9	449.9	451.3	461.3	462.7	462.0
17.5°	1495.5	1301.9	854.2	531.7	434.2	428.5	430.7	444.2	450.6	452.7	447.7
20°	1512.6	1272.0	733.9	454.1	402.2	410.7	425.0	428.5	436.3	437.8	432.1
22.5°	1507.6	1197.3	622.1	392.9	378.0	394.4	408.6	412.9	410.7	406.5	405.7
25°	1498.4	1133.2	519.6	352.4	360.2	378.0	391.5	383.7	379.4	380.1	380.8
27.5°	1482.0	1052.1	434.9	323.9	336.0	362.3	361.6	358.8	363.0	359.5	363.0
30°	1479.2	970.9	365.2	298.3	318.2	337.4	338.8	343.8	348.8	342.4	348.8
32.5°	1483.4	882.0	315.3	282.6	307.5	308.2	323.9	328.9	325.3	311.1	312.5
35°	1516.2	813.6	279.0	274.1	290.4	291.1	306.1	299.7	284.0	275.5	280.5
37.5°	1585.2	756.7	262.0	266.2	267.6	276.9	277.6	264.8	266.2	265.5	268.4
40°	1673.5	713.3	249.9	259.1	257.7	264.1	238.5	245.6	252.0	254.1	255.5
42.5°	1734.0	681.9	242.0	247.7	244.9	233.5	219.2	226.4	231.3	239.2	240.6
45°	1761.1	657.0	232.8	227.8	227.8	207.1	201.4	202.9	214.3	222.8	221.4
47.5°	1716.9	632.8	216.4	201.4	206.4	189.3	182.9	182.9	195.0	205.7	203.6
48°	1699.8	622.8	217.1	195.8	199.3	186.5	180.1	178.7	192.2	202.2	202.2
50°	1615.1	585.8	198.6	180.1	173.0	171.6	167.3	168.7	177.2	186.5	186.5
52.5°	1450.0	506.1	168.0	154.5	141.7	150.2	152.3	149.5	153.8	162.3	161.6
55°	1210.1	388.7	134.5	128.1	118.2	127.4	131.7	128.1	123.9	130.3	130.3
57.5°	775.2	209.3	107.5	108.9	98.9	108.2	111.8	103.2	95.4	100.4	99.7
60°	349.5	125.3	88.3	86.1	79.7	90.4	96.1	86.1	75.5	79.0	82.6
62.5°	131.0	89.0	66.9	65.5	64.1	74.0	76.9	69.0	58.4	60.5	61.2
65°	96.1	78.3	53.4	48.4	51.3	58.4	56.9	49.1	42.0	42.0	43.4
67.5°	81.9	68.3	43.4	37.7	37.7	38.4	35.6	31.3	29.2	30.6	32.0
70°	64.1	54.1	34.2	29.2	26.3	23.5	20.6	19.9	17.8	19.9	19.2
72.5°	41.3	36.3	26.3	22.1	19.9	16.4	13.5	12.8	10.7	10.0	10.0
75°	22.1	22.1	20.6	17.8	15.7	12.8	10.7	8.5	5.7	4.3	4.3
77.5°	15.7	17.1	18.5	17.1	14.2	10.7	8.5	5.7	2.8	1.4	1.4
80°	14.9	17.1	18.5	16.4	14.2	10.7	7.8	4.3	2.1	0.7	0.7
82.5°	13.5	15.7	17.1	14.9	12.8	9.3	7.1	4.3	2.1	0.7	0.7
85°	2.8	3.6	4.3	4.3	5.0	6.4	5.0	3.6	1.4	0.7	0.7
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4	0.7	0.7	0.7
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)