

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: P527283

Luminaire Tested: **GALN-SA2B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527283
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-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 6483 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

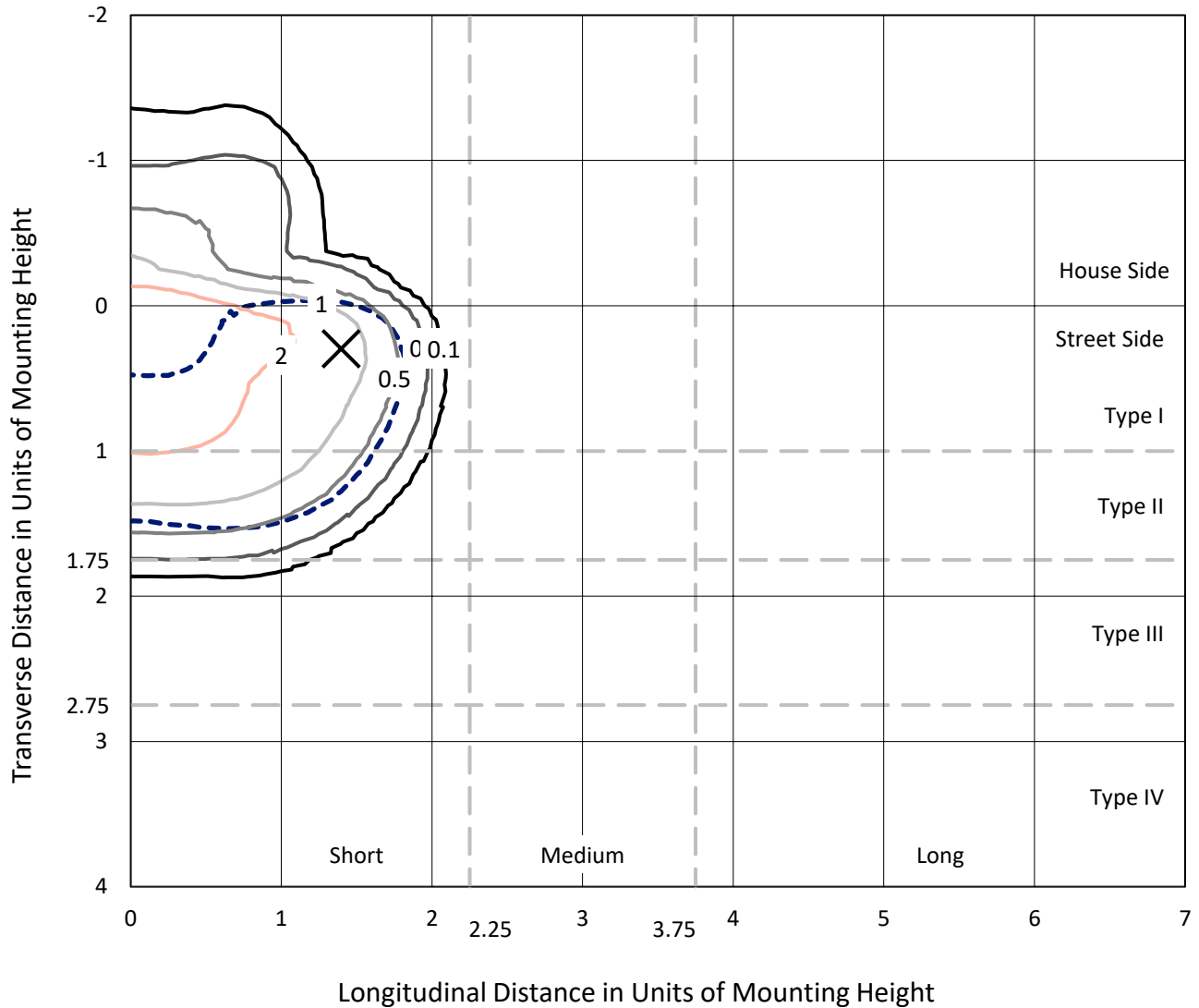
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527283
 CATALOG NUMBER: GALN-SA2B-735-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

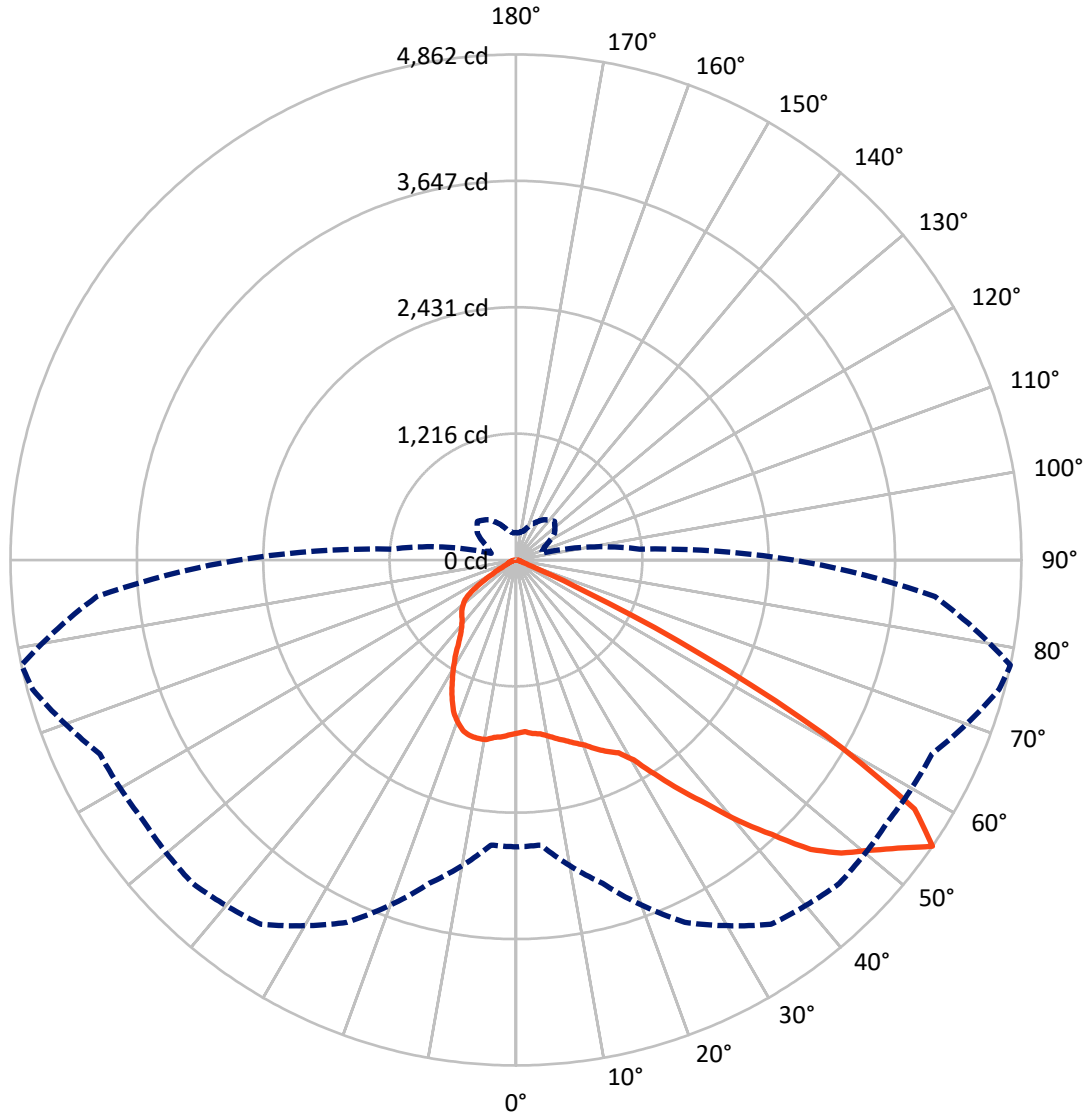
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

REPORT NUMBER: P527283
CATALOG NUMBER: GALN-SA2B-735-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P527283

CATALOG NUMBER: GALN-SA2B-735-U-T3R-GRSBK

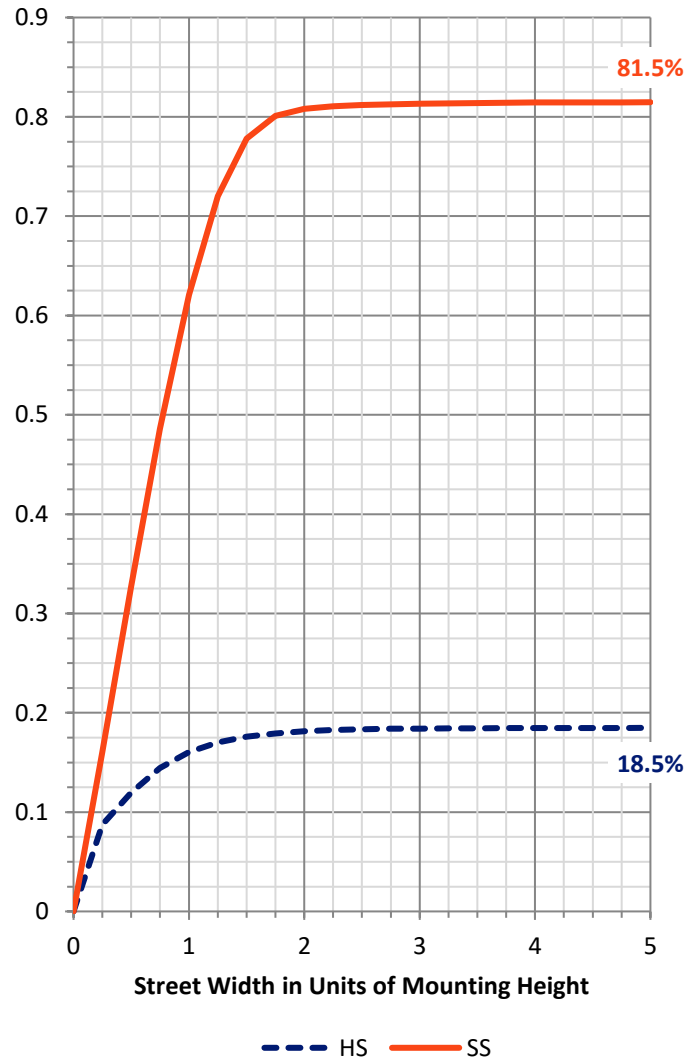
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1204.2	0.0	1204.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5278.9	0.0	5278.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	6483.0	0.0	6483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	2.3
10°-20°	393.3	6.1
20°-30°	689.4	10.6
30°-40°	1136.8	17.5
40°-50°	1654.2	25.5
50°-60°	1874.4	28.9
60°-70°	535.9	8.3
70°-80°	41.6	0.6
80°-90°	8.7	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°	6483.0	100.0
0°-180°	6483.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527283

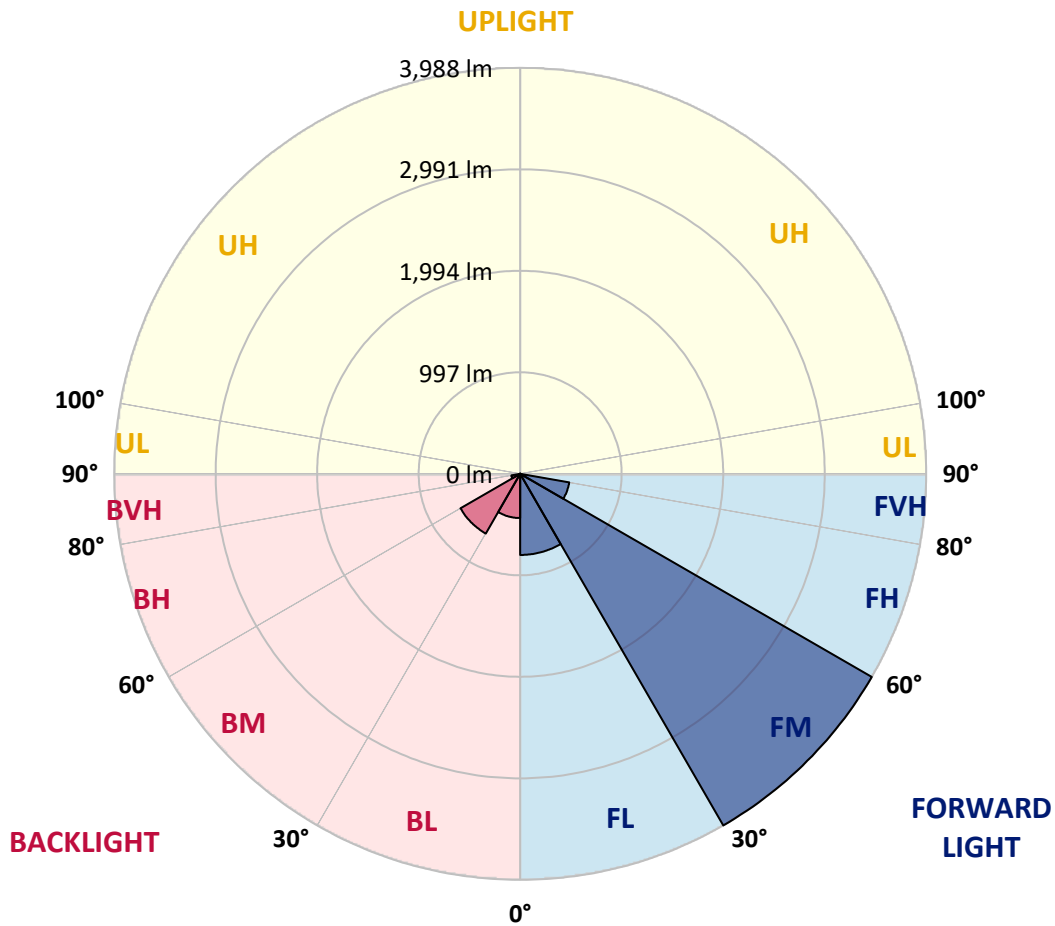
CATALOG NUMBER: GALN-SA2B-735-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.9	12.3			
FM (30°-60°)	3988.1	61.5			
FH (60°-80°)	489.6	7.6			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	434.5	6.7	B1/500		
BM (30°-60°)	677.4	10.4	B1/1000		
BH (60°-80°)	87.9	1.4	B0/110		G0/110
BVH (80°-90°)	4.4	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: P527283

CATALOG NUMBER: GALN-SA2B-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8
2.5°	1567.1	1582.2	1584.5	1603.0	1601.9	1633.2	1642.4	1643.6	1664.5	1654.0	1680.7
5°	1523.1	1514.9	1511.5	1543.9	1553.2	1581.0	1604.2	1618.1	1661.0	1676.1	1703.9
7.5°	1483.6	1483.6	1486.0	1514.9	1511.5	1547.4	1571.7	1614.6	1677.2	1690.0	1723.6
10°	1445.4	1431.5	1448.9	1479.0	1504.5	1520.7	1571.7	1612.3	1685.3	1722.4	1768.8
12.5°	1425.7	1432.6	1435.0	1457.0	1484.8	1533.5	1561.3	1628.5	1743.3	1765.3	1815.1
15°	1549.7	1535.8	1502.2	1482.5	1505.7	1528.9	1598.4	1666.8	1773.4	1804.7	1860.4
17.5°	1693.4	1681.9	1654.0	1600.7	1548.6	1591.4	1645.9	1708.5	1805.9	1852.2	1934.5
20°	1881.2	1862.7	1834.9	1730.5	1685.3	1639.0	1696.9	1771.1	1859.2	1900.9	1985.5
22.5°	2104.9	2104.9	2042.3	1916.0	1822.1	1778.1	1802.4	1845.3	1918.3	1975.1	2058.6
25°	2337.9	2330.9	2274.2	2143.2	1984.4	1932.2	1960.0	1990.2	2009.9	2041.2	2096.8
27.5°	2604.5	2563.9	2492.1	2347.2	2206.9	2106.1	2136.2	2109.6	2085.2	2101.4	2181.4
30°	2785.3	2810.8	2719.2	2580.2	2448.0	2335.6	2341.4	2318.2	2206.9	2230.1	2277.6
32.5°	2973.1	2989.3	2938.3	2861.8	2729.7	2598.7	2551.2	2531.5	2448.0	2458.4	2412.1
35°	3129.6	3160.9	3115.7	3082.0	3043.8	2938.3	2807.3	2871.1	2736.6	2711.1	2590.6
37.5°	3273.3	3264.0	3317.3	3282.6	3274.5	3200.3	3056.5	3069.3	2978.9	2973.1	2834.0
40°	3402.0	3404.3	3477.3	3493.5	3461.1	3328.9	3120.3	3221.1	3294.2	3301.1	3122.6
42.5°	3508.6	3539.9	3602.5	3733.5	3684.8	3464.5	3186.4	3296.5	3567.7	3610.6	3396.2
45°	3601.3	3665.1	3742.7	3859.8	3832.0	3657.0	3351.0	3451.8	3859.8	3972.2	3653.5
47.5°	3607.1	3690.6	3775.2	3949.0	3983.8	3760.1	3521.3	3697.5	4091.6	4213.3	3841.3
50°	3583.9	3628.0	3797.2	3986.1	4065.0	3928.2	3760.1	3903.8	4316.5	4393.0	3936.3
52.5°	3309.2	3342.8	3682.5	4020.9	4211.0	4118.3	4076.5	4191.3	4546.0	4602.8	4025.5
55°	2758.7	2752.9	3220.0	3845.9	4278.2	4399.9	4374.4	4415.0	4811.4	4862.4	4047.6
57.5°	1887.0	1992.5	2395.9	3202.6	3866.8	4333.9	4360.5	4293.3	4501.9	4521.6	3528.3
60°	1017.7	1061.7	1386.3	2137.4	2944.1	3531.8	3601.3	3479.6	3463.4	3407.7	2518.7
62.5°	404.5	426.5	610.8	1058.3	1604.2	2146.6	2296.2	2246.3	2139.7	1993.6	1304.0
65°	192.4	206.3	303.7	494.9	711.7	894.8	1044.3	1090.7	804.4	724.4	430.0
67.5°	131.0	141.4	221.4	282.8	253.8	265.4	345.4	321.1	188.9	161.1	119.4
70°	99.7	106.6	177.3	192.4	113.6	80.0	89.3	83.5	77.7	78.8	77.7
72.5°	70.7	76.5	129.8	113.6	49.8	37.1	47.5	56.8	56.8	56.8	55.6
75°	42.9	48.7	75.3	44.0	19.7	19.7	30.1	38.3	40.6	41.7	39.4
77.5°	22.0	27.8	25.5	12.8	12.8	15.1	22.0	26.7	29.0	29.0	27.8
80°	4.6	4.6	4.6	7.0	12.8	16.2	22.0	24.3	27.8	27.8	25.5
82.5°	0.0	1.2	3.5	7.0	11.6	15.1	20.9	24.3	27.8	29.0	26.7
85°	0.0	1.2	2.3	4.6	8.1	9.3	8.1	7.0	7.0	7.0	7.0
87.5°	0.0	0.0	1.2	1.2	1.2	2.3	2.3	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



REPORT NUMBER: P527283

CATALOG NUMBER: GALN-SA2B-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8
2.5°	1683.0	1686.5	1680.7	1679.5	1674.9	1688.8	1655.2	1647.1	1667.9	1648.2	1652.9
5°	1705.0	1713.1	1702.7	1685.3	1659.8	1620.4	1586.8	1542.8	1521.9	1506.8	1504.5
7.5°	1721.3	1727.1	1716.6	1661.0	1584.5	1484.8	1410.6	1356.1	1313.3	1300.5	1279.6
10°	1787.3	1788.5	1736.3	1613.5	1463.9	1333.0	1219.4	1135.9	1093.0	1066.4	1054.8
12.5°	1831.4	1829.1	1723.6	1519.6	1320.2	1146.3	1016.5	915.7	876.3	863.5	855.4
15°	1887.0	1874.3	1693.4	1423.4	1134.8	947.0	829.9	760.4	756.9	748.8	756.9
17.5°	1931.1	1895.1	1649.4	1248.3	957.4	780.1	703.6	708.2	717.5	725.6	726.8
20°	2002.9	1928.7	1548.6	1095.3	792.8	668.8	667.6	688.5	711.7	721.0	730.2
22.5°	2057.4	1942.6	1440.8	931.9	658.4	623.6	643.3	674.6	692.0	701.3	715.2
25°	2077.1	1904.4	1297.0	768.5	593.5	602.7	632.9	653.7	675.8	686.2	680.4
27.5°	2096.8	1884.7	1125.5	632.9	558.7	588.8	614.3	635.2	642.1	656.0	665.3
30°	2144.3	1816.3	971.3	547.1	541.3	579.5	598.1	605.0	623.6	631.7	631.7
32.5°	2182.6	1789.6	807.9	506.5	539.0	584.2	586.5	586.5	588.8	583.0	580.7
35°	2261.4	1698.1	661.8	482.2	537.8	585.3	591.1	571.4	518.1	497.3	491.5
37.5°	2358.8	1639.0	554.0	476.4	545.9	599.3	608.5	534.3	464.8	431.2	425.4
40°	2477.0	1597.2	483.3	474.1	564.5	631.7	603.9	505.4	415.0	366.3	364.0
42.5°	2614.9	1559.0	435.8	472.9	587.7	665.3	599.3	481.0	364.0	331.5	336.1
45°	2725.0	1538.1	403.4	464.8	595.8	685.0	602.7	438.1	343.1	322.2	324.5
47.5°	2810.8	1494.1	376.7	450.9	594.6	692.0	571.4	420.8	332.7	338.5	344.3
50°	2813.1	1435.0	343.1	420.8	577.2	679.2	535.5	404.5	330.3	354.7	366.3
52.5°	2781.8	1351.5	307.2	377.9	536.7	635.2	503.0	397.6	319.9	317.6	331.5
55°	2670.6	1195.0	246.9	306.0	453.2	523.9	474.1	384.8	288.6	262.0	264.3
57.5°	2158.2	856.6	182.0	219.1	321.1	383.7	427.7	379.0	259.6	222.5	223.7
60°	1336.4	485.7	133.3	149.5	198.2	233.0	346.6	352.4	231.8	187.8	185.5
62.5°	686.2	239.9	103.2	105.5	121.7	136.8	237.6	295.6	209.8	178.5	178.5
65°	229.5	118.2	90.4	81.1	81.1	84.6	143.7	205.2	177.3	149.5	149.5
67.5°	98.5	88.1	78.8	70.7	64.9	61.4	81.1	119.4	132.1	113.6	109.0
70°	76.5	74.2	68.4	59.1	51.0	46.4	47.5	61.4	75.3	73.0	70.7
72.5°	56.8	56.8	54.5	46.4	39.4	33.6	31.3	32.5	35.9	37.1	38.3
75°	39.4	40.6	40.6	35.9	29.0	24.3	20.9	17.4	13.9	11.6	10.4
77.5°	26.7	27.8	30.1	26.7	22.0	16.2	12.8	9.3	5.8	2.3	2.3
80°	23.2	26.7	29.0	26.7	23.2	17.4	12.8	7.0	3.5	0.0	0.0
82.5°	24.3	26.7	30.1	25.5	22.0	16.2	12.8	8.1	3.5	1.2	0.0
85°	5.8	5.8	7.0	8.1	10.4	11.6	9.3	5.8	3.5	1.2	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	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)