

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: P458681

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8346 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

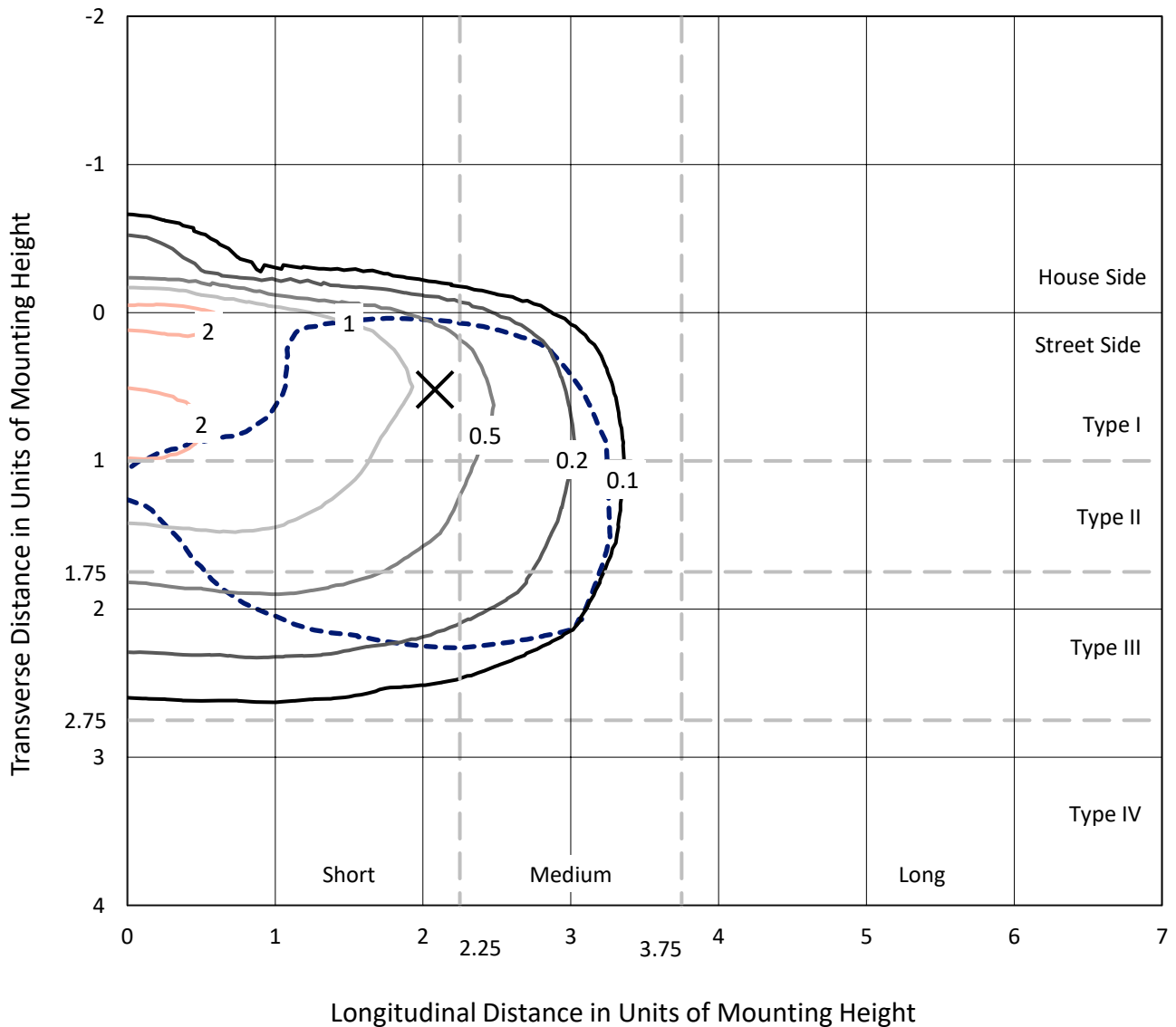
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458681
 CATALOG NUMBER: GALN-SA2B-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

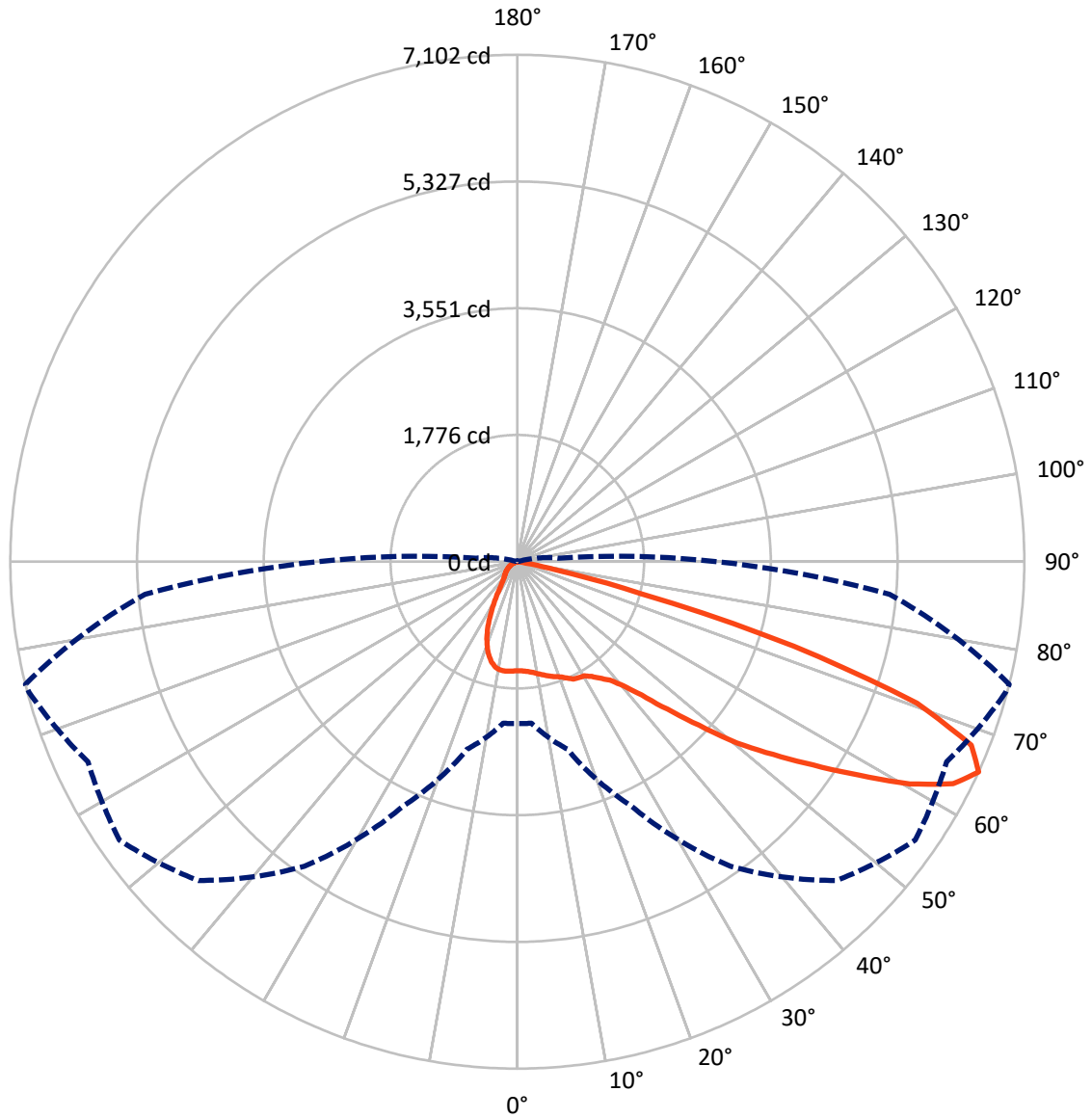
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

REPORT NUMBER: P458681
CATALOG NUMBER: GALN-SA2B-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P458681

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

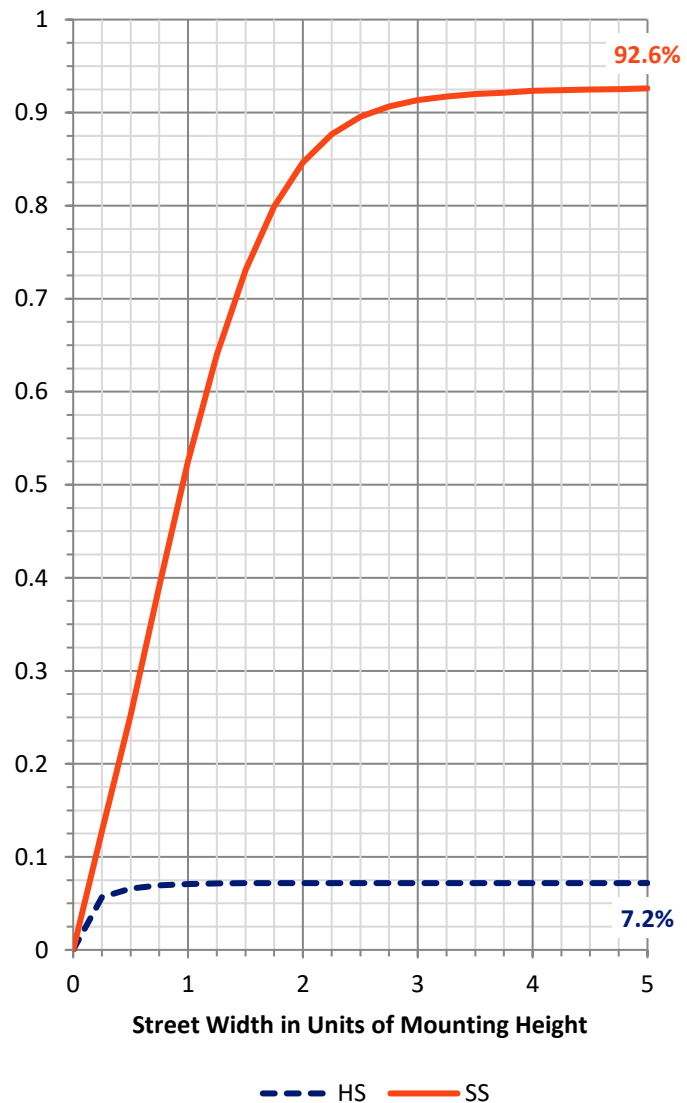
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	602.7	0.0	602.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7743.3	0.0	7743.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	8346.0	0.0	8346.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	1.5
10°-20°	280.0	3.4
20°-30°	451.2	5.4
30°-40°	784.6	9.4
40°-50°	1296.5	15.5
50°-60°	2002.8	24.0
60°-70°	2445.8	29.3
70°-80°	928.2	11.1
80°-90°	31.0	0.4
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°	8346.0	100.0
0°-180°	8346.0	100.0



REPORT NUMBER: P458681

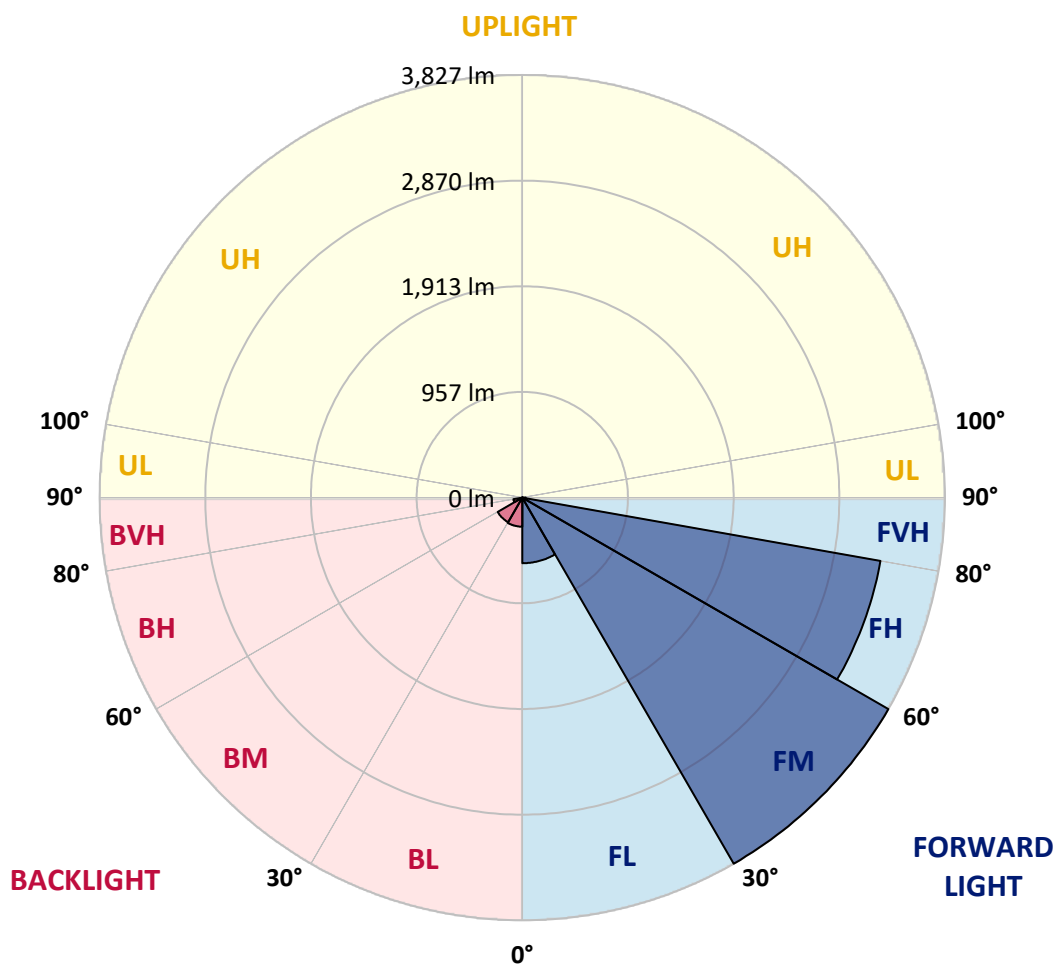
CATALOG NUMBER: GALN-SA2B-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	593.7	7.1			
FM (30°-60°)	3826.8	45.9			
FH (60°-80°)	3292.2	39.4			G2/5000
FVH (80°-90°)	30.5	0.4			G1/100
BL (0°-30°)	263.3	3.2	B1/500		
BM (30°-60°)	257.2	3.1	B1/1000		
BH (60°-80°)	81.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P458681

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7
2.5°	1459.0	1459.6	1463.1	1471.9	1485.5	1496.7	1506.1	1521.4	1532.1	1533.2	1536.8
5°	1358.2	1351.2	1358.2	1381.2	1401.8	1433.1	1471.4	1509.7	1543.8	1546.2	1562.7
7.5°	1245.1	1251.0	1262.2	1285.7	1324.6	1372.4	1427.8	1496.1	1560.9	1566.8	1599.2
10°	1130.2	1143.1	1161.4	1197.4	1251.6	1313.4	1388.9	1486.7	1588.0	1596.3	1652.3
12.5°	1024.1	1030.0	1052.4	1100.7	1167.9	1255.1	1359.4	1481.4	1618.1	1628.1	1708.8
15°	942.8	950.5	969.9	1013.5	1088.3	1200.3	1335.2	1479.6	1647.5	1661.7	1765.4
17.5°	927.5	932.2	940.4	969.9	1035.3	1156.7	1313.4	1479.0	1675.8	1692.9	1817.8
20°	990.5	986.4	978.2	975.2	1011.2	1123.1	1297.5	1483.7	1702.9	1722.4	1873.2
22.5°	1148.5	1153.8	1105.4	1048.3	1036.5	1117.8	1295.2	1506.1	1746.0	1768.9	1935.1
25°	1483.7	1443.1	1367.7	1230.9	1127.8	1150.2	1321.7	1559.2	1796.0	1821.4	1991.1
27.5°	1854.4	1842.0	1724.7	1499.6	1307.5	1218.6	1368.8	1599.8	1812.5	1838.5	2022.9
30°	2218.5	2233.3	2098.9	1850.2	1568.6	1345.3	1413.0	1615.1	1827.3	1854.4	2063.6
32.5°	2556.2	2573.8	2456.0	2209.7	1876.2	1564.5	1489.0	1674.7	1889.1	1916.8	2131.3
35°	2821.9	2824.3	2735.3	2539.1	2212.0	1830.8	1653.4	1778.9	1972.8	2005.2	2203.2
37.5°	3065.9	3062.3	2958.0	2788.9	2491.9	2095.4	1860.3	1899.2	2068.3	2101.9	2306.9
40°	3246.8	3249.1	3215.5	3056.4	2753.0	2339.9	2024.1	2011.7	2228.5	2281.0	2457.8
42.5°	3367.6	3389.4	3405.9	3325.1	3081.2	2641.0	2275.7	2252.7	2506.7	2550.3	2671.1
45°	3465.4	3504.3	3586.8	3582.6	3396.4	3010.5	2621.0	2573.8	2900.9	2947.4	2942.7
47.5°	3536.7	3576.2	3712.9	3795.4	3692.8	3368.7	3055.3	3014.6	3371.7	3422.4	3242.6
50°	3573.2	3620.4	3794.8	3954.5	3924.4	3714.1	3550.2	3552.6	3940.3	3989.2	3590.3
52.5°	3487.8	3549.1	3838.4	4125.9	4184.3	4044.6	4014.0	4091.8	4446.5	4488.3	3904.4
55°	3215.0	3292.1	3778.9	4272.1	4485.4	4434.7	4540.8	4659.2	4999.8	5026.9	4226.7
57.5°	3042.3	3124.2	3603.3	4396.4	4847.2	4925.0	5092.9	5179.5	5570.8	5639.7	4596.7
60°	2896.8	2961.0	3458.9	4422.9	5214.9	5524.8	5688.0	5777.6	6275.5	6320.3	5003.9
62.5°	2654.6	2728.2	3215.0	4237.9	5399.9	6005.1	6343.3	6303.2	6820.6	6851.8	5253.8
65°	2265.1	2271.6	2720.0	3773.0	5209.0	6316.8	6803.5	6635.6	7081.0	7102.2	5234.3
67.5°	1690.6	1753.0	2092.4	2965.7	4399.9	6050.4	6952.6	6644.4	6916.6	6857.7	4818.9
70°	1088.9	1136.7	1418.3	2056.5	3172.5	5049.3	6458.2	6188.9	6070.5	5939.7	3944.4
72.5°	502.6	563.9	842.6	1175.0	1881.5	3596.8	5242.6	5028.1	4369.3	4046.4	2507.3
75°	219.2	234.5	416.0	619.9	882.1	1902.1	3456.5	3121.3	1973.4	1802.5	1003.5
77.5°	133.8	143.8	218.0	332.3	346.5	724.8	1862.0	1361.8	609.9	538.0	272.2
80°	90.7	101.9	158.5	173.8	118.4	202.1	698.9	363.6	123.2	117.9	58.3
82.5°	44.2	56.0	117.3	97.2	51.3	64.8	203.3	77.8	35.9	33.6	20.6
85°	6.5	11.2	66.0	63.6	23.0	15.3	35.9	19.4	12.4	11.8	9.4
87.5°	0.0	0.0	22.4	10.0	2.4	2.4	4.1	4.1	4.7	4.1	4.7
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: P458681

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7	1526.7
2.5°	1538.5	1541.5	1530.3	1514.4	1497.3	1480.2	1456.0	1434.2	1421.3	1428.9	1410.1
5°	1566.2	1563.9	1534.4	1486.1	1421.9	1344.7	1268.1	1202.7	1181.4	1149.6	1146.1
7.5°	1604.5	1598.0	1535.6	1424.8	1279.9	1134.9	993.5	899.8	846.2	800.8	802.0
10°	1658.2	1639.3	1522.0	1317.0	1078.3	859.7	679.4	555.7	502.0	485.0	471.4
12.5°	1713.5	1677.0	1484.3	1171.4	839.7	587.5	413.1	337.6	304.6	294.0	292.9
15°	1763.0	1705.3	1418.3	996.4	610.5	375.4	281.7	256.9	252.8	253.4	252.8
17.5°	1811.9	1727.7	1327.0	810.8	414.8	269.3	242.2	236.3	238.1	240.4	239.8
20°	1852.6	1732.4	1210.3	618.7	293.4	236.3	227.5	226.3	228.0	229.8	229.8
22.5°	1896.8	1735.9	1071.8	428.4	239.8	219.8	215.1	215.1	217.4	219.8	220.4
25°	1929.8	1716.5	906.3	307.6	211.5	203.9	201.5	202.1	204.5	205.6	205.1
27.5°	1935.1	1661.7	730.7	235.7	192.1	184.4	182.1	184.4	181.5	183.3	182.1
30°	1939.8	1592.2	552.7	198.6	174.4	162.6	159.1	155.6	153.2	150.3	149.7
32.5°	1954.5	1510.3	403.6	178.5	157.9	145.0	136.7	126.7	119.0	116.7	116.1
35°	1961.0	1411.8	296.4	162.6	143.2	129.0	114.3	100.2	89.0	84.9	87.8
37.5°	1985.8	1316.4	229.8	150.8	130.2	112.5	93.7	76.0	65.4	63.0	64.2
40°	2036.5	1212.7	192.7	140.8	119.0	97.2	74.2	57.2	50.1	47.7	47.1
42.5°	2117.8	1109.6	171.5	131.4	107.8	81.9	58.3	44.8	38.9	37.1	37.1
45°	2216.8	1010.6	156.7	121.4	96.0	66.0	46.0	35.9	32.4	31.2	31.2
47.5°	2347.0	923.9	144.4	111.4	83.1	52.4	37.1	31.2	28.9	29.5	30.1
50°	2479.0	859.7	130.8	100.2	68.4	43.0	31.8	27.7	27.1	27.7	27.7
52.5°	2578.6	822.0	112.5	84.9	53.6	35.9	28.3	25.9	25.3	24.2	24.2
55°	2712.9	813.8	89.6	68.9	42.4	30.1	25.3	23.6	21.8	20.6	20.0
57.5°	2885.6	823.2	68.9	53.6	33.0	24.7	22.4	19.4	17.1	14.7	14.7
60°	2992.8	802.0	53.6	41.2	24.2	20.0	17.1	14.1	11.2	9.4	8.8
62.5°	2958.6	712.4	42.4	30.6	17.1	14.7	11.2	9.4	6.5	4.7	4.1
65°	2782.4	575.1	34.2	21.2	12.4	8.8	5.9	5.9	2.9	0.6	0.0
67.5°	2435.4	426.0	27.1	14.1	7.1	4.1	2.9	1.8	0.0	0.0	0.0
70°	1982.2	307.6	21.2	8.8	4.1	2.9	1.2	0.6	0.0	0.0	0.0
72.5°	1258.6	176.2	16.5	5.3	2.9	1.2	0.0	0.0	0.0	0.0	0.0
75°	486.7	68.9	11.2	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	137.9	32.4	6.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.9	14.1	3.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.1	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)