

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: P648261

Luminaire Tested: **GALN-SA2B-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7332.8 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

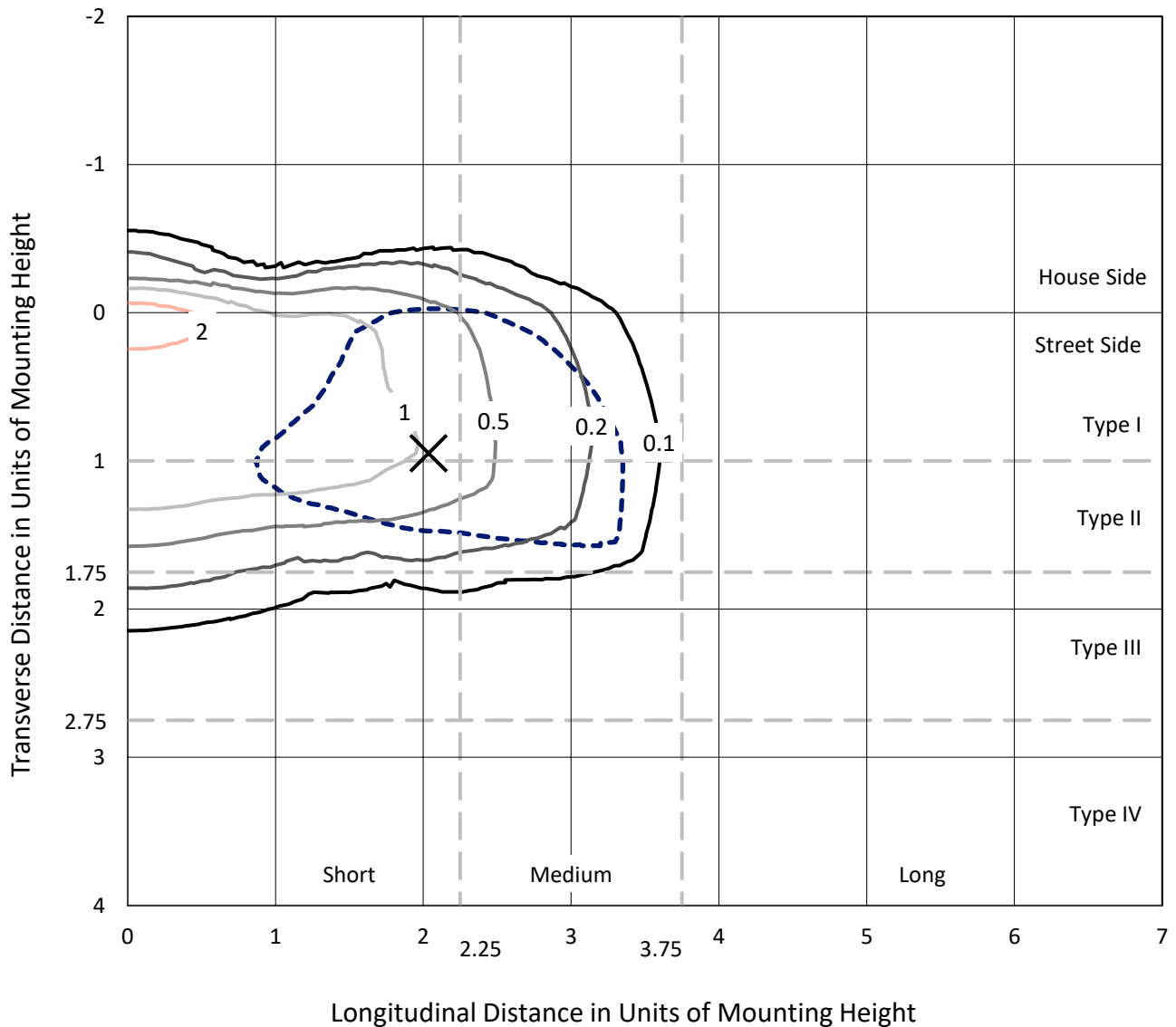
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

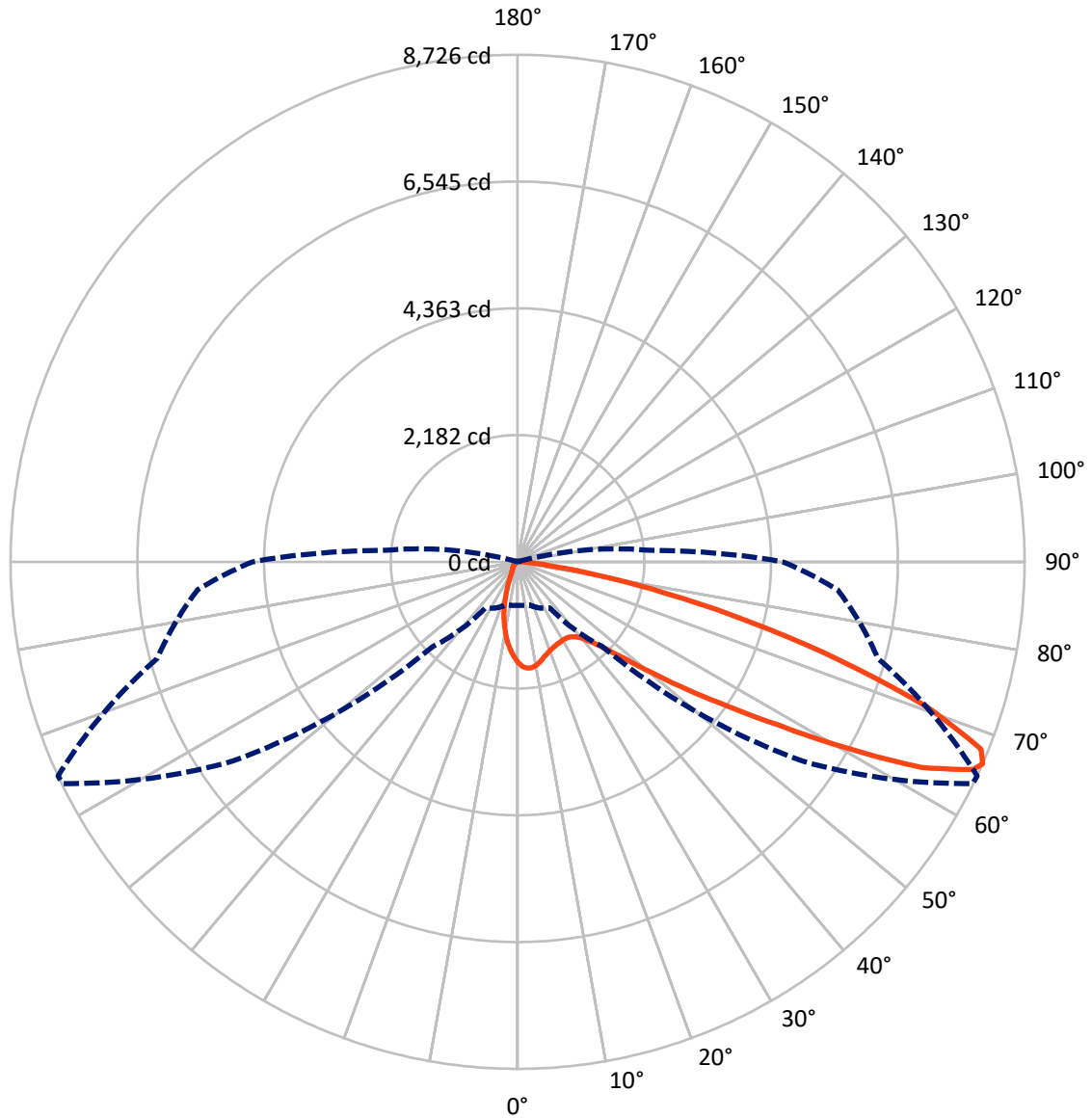
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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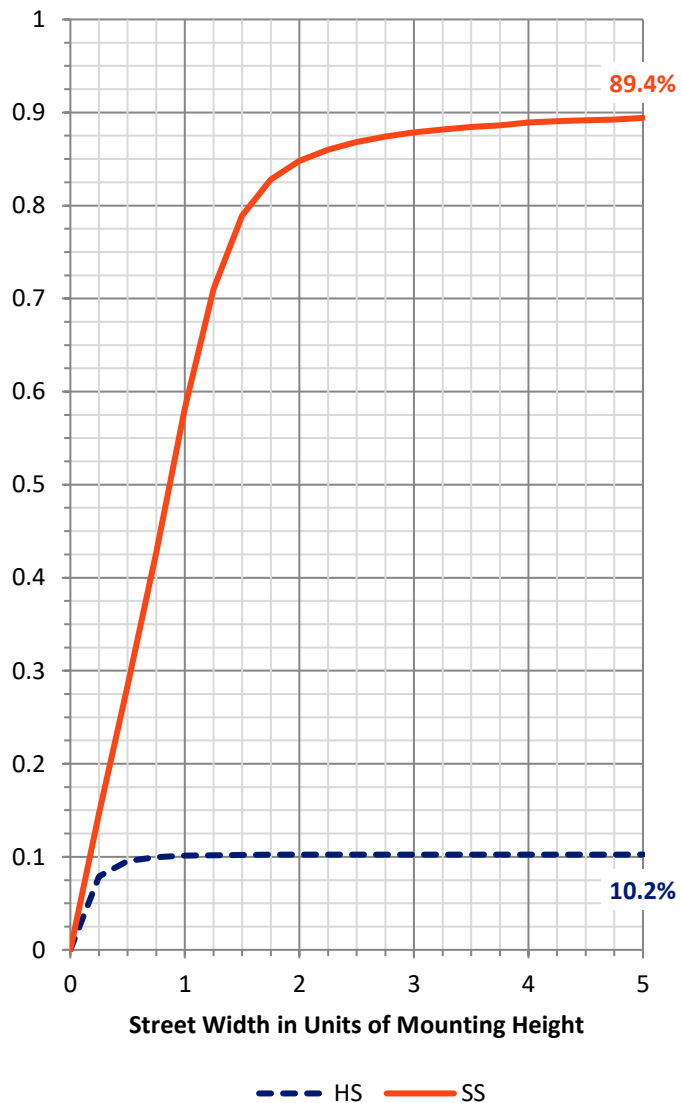
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.3	0.0	758.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6574.5	0.0	6574.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	7332.8	0.0	7332.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	1.9
10°-20°	309.9	4.2
20°-30°	443.9	6.1
30°-40°	648.3	8.8
40°-50°	1087.1	14.8
50°-60°	1814.2	24.7
60°-70°	1925.8	26.3
70°-80°	872.2	11.9
80°-90°	89.2	1.2
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°	7332.8	100.0
0°-180°	7332.8	100.0

Coefficient of Utilization



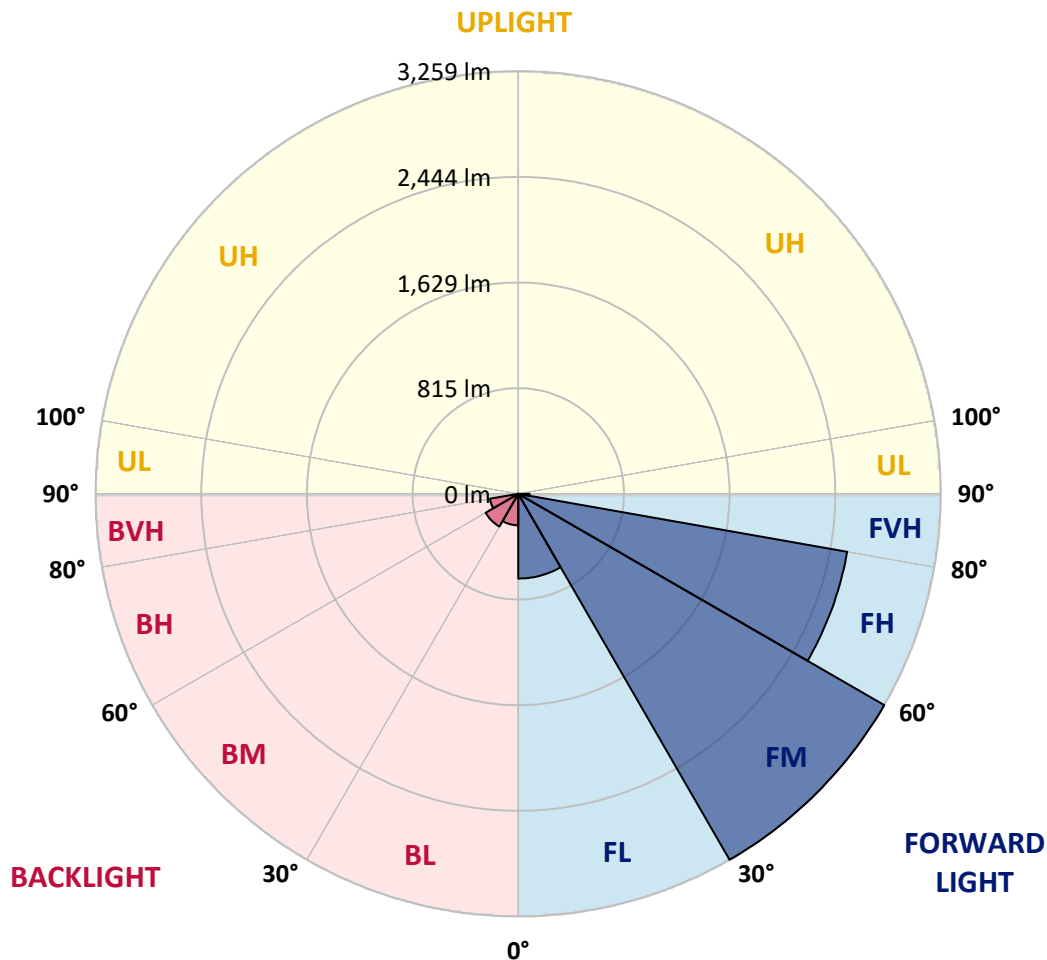
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.4	8.9			
FM (30°-60°)	3258.9	44.4			
FH (60°-80°)	2575.8	35.1			G2/5000
FVH (80°-90°)	86.4	1.2			G1/100
BL (0°-30°)	242.6	3.3	B1/500		
BM (30°-60°)	290.8	4.0	B1/1000		
BH (60°-80°)	222.1	3.0	B1/500		G1/500
BVH (80°-90°)	2.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9
2.5°	1832.5	1834.5	1836.9	1840.4	1842.9	1835.4	1825.0	1813.2	1810.7	1785.4	1754.7
5°	1734.4	1737.4	1759.2	1771.1	1797.8	1822.1	1837.5	1839.4	1838.4	1814.7	1765.6
7.5°	1594.7	1603.2	1624.5	1645.2	1695.3	1741.3	1795.8	1833.9	1836.4	1830.0	1769.1
10°	1481.4	1486.8	1497.6	1538.8	1580.4	1650.7	1727.0	1798.8	1804.7	1830.5	1766.1
12.5°	1392.7	1400.6	1414.0	1445.7	1495.7	1562.1	1648.8	1745.3	1757.7	1821.1	1757.7
15°	1330.8	1334.7	1348.1	1379.3	1427.9	1489.3	1577.0	1689.3	1700.3	1808.7	1756.2
17.5°	1301.6	1306.0	1315.4	1340.2	1380.3	1437.3	1522.9	1644.3	1658.2	1800.8	1761.7
20°	1309.5	1313.4	1314.0	1326.8	1354.0	1402.1	1483.3	1602.2	1620.0	1795.8	1770.6
22.5°	1354.5	1355.1	1349.1	1343.2	1352.6	1387.2	1459.0	1575.5	1593.8	1794.9	1781.0
25°	1421.9	1423.4	1413.5	1392.7	1373.9	1391.7	1453.6	1558.1	1574.5	1792.4	1787.4
27.5°	1515.0	1514.6	1511.6	1476.9	1423.4	1411.5	1458.0	1548.7	1562.6	1785.4	1789.9
30°	1645.2	1641.3	1634.9	1595.8	1514.0	1459.5	1476.9	1542.7	1555.7	1775.5	1783.4
32.5°	1773.6	1788.4	1787.4	1750.2	1648.2	1545.3	1516.0	1550.7	1560.0	1769.1	1774.0
35°	1923.1	1922.7	1960.8	1946.9	1827.5	1654.7	1582.8	1577.0	1584.3	1773.6	1769.6
37.5°	2061.8	2074.6	2134.1	2148.5	2039.5	1809.2	1677.5	1633.4	1635.8	1803.7	1780.5
40°	2234.6	2259.4	2348.1	2396.1	2300.0	2038.5	1817.1	1736.9	1737.4	1878.0	1821.6
42.5°	2457.5	2496.6	2579.4	2659.5	2608.1	2309.9	2026.6	1900.8	1899.9	2008.8	1915.7
45°	2728.4	2755.7	2849.7	2977.0	2944.3	2688.8	2331.7	2154.9	2142.1	2223.3	2082.6
47.5°	2962.2	2999.4	3094.9	3240.1	3388.6	3151.3	2696.3	2504.0	2495.7	2564.5	2368.9
50°	3064.2	3096.9	3197.5	3401.0	3761.1	3758.6	3239.0	3013.7	2999.4	3036.5	2811.6
52.5°	2952.3	2983.0	3084.6	3338.1	3936.4	4498.5	4025.5	3653.1	3635.7	3588.2	3340.6
55°	2568.9	2594.2	2744.3	3035.5	3869.0	4991.8	5109.2	4443.1	4375.6	4190.9	3939.4
57.5°	2045.4	2032.6	2125.7	2463.9	3473.8	5157.2	6221.5	5427.1	5306.8	4711.9	4446.0
60°	1417.5	1457.1	1494.7	1717.6	2612.0	4870.4	6913.4	6664.3	6505.8	5224.6	4931.3
62.5°	1042.0	1068.3	1093.1	1196.0	1642.3	3888.8	7035.7	7935.2	7794.5	5768.8	5394.4
65°	824.1	826.1	836.0	937.6	1082.2	2528.9	6447.8	8651.8	8615.7	6292.8	5582.2
66°	750.8	751.3	766.6	875.6	971.2	2059.3	5976.9	8706.3	8726.1	6418.6	5527.2
67.5°	656.2	654.3	676.5	787.0	884.6	1484.8	5133.9	8485.4	8602.7	6515.2	5329.6
70°	508.6	506.1	533.4	660.2	814.7	990.5	3412.4	7285.8	7475.1	6317.6	4715.4
72.5°	338.7	340.8	387.3	521.0	777.6	872.2	2052.9	5542.5	5809.9	5217.1	3709.5
75°	197.6	201.1	254.1	387.3	675.0	831.5	1161.9	3952.2	4123.1	3602.6	2310.9
77.5°	103.5	105.0	142.1	255.6	517.6	772.1	774.1	2524.9	2605.1	1750.8	914.8
80°	55.0	53.5	76.3	154.0	356.1	678.0	628.0	1336.7	1389.7	520.0	231.3
82.5°	20.8	22.8	40.6	101.0	210.5	486.9	540.8	590.9	572.5	114.4	97.1
85°	4.0	4.9	17.3	59.9	106.0	203.6	398.7	289.7	268.4	43.1	56.0
87.5°	0.5	1.0	4.9	14.3	15.3	68.8	117.8	80.3	69.4	15.8	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9	1738.9
2.5°	1739.9	1726.5	1681.9	1637.9	1592.8	1552.1	1524.4	1479.3	1468.0	1451.6	1442.2
5°	1736.4	1705.2	1619.5	1525.9	1438.8	1344.6	1272.8	1203.5	1166.4	1147.6	1140.6
7.5°	1726.5	1677.0	1543.2	1396.6	1256.9	1116.3	994.0	900.9	840.9	799.8	772.1
10°	1706.7	1638.3	1454.6	1253.0	1042.0	856.3	701.3	583.4	492.3	463.5	464.6
12.5°	1686.3	1595.3	1355.5	1093.5	832.0	597.8	433.4	340.2	296.7	282.3	279.3
15°	1667.6	1554.2	1258.4	939.1	619.6	387.3	279.3	246.6	234.7	232.3	231.8
17.5°	1657.7	1516.0	1154.9	762.3	432.4	263.0	223.9	214.9	211.5	209.0	208.0
20°	1649.2	1482.8	1055.9	596.8	295.7	215.4	200.6	192.1	186.2	183.8	182.3
22.5°	1643.3	1448.6	953.4	462.0	226.4	191.2	177.8	166.9	158.5	155.5	153.5
25°	1634.4	1411.0	849.9	337.8	190.7	169.9	154.5	141.6	130.8	125.3	124.3
27.5°	1621.5	1368.4	736.5	250.1	170.4	151.0	132.2	116.4	105.5	99.5	100.1
30°	1600.7	1323.8	623.0	198.6	154.0	131.8	111.4	96.1	85.7	81.2	80.7
32.5°	1575.9	1269.9	519.1	170.4	139.1	114.4	93.1	79.7	71.8	68.4	67.9
35°	1552.7	1215.4	413.0	153.0	123.8	98.6	78.2	66.9	60.9	57.9	58.4
37.5°	1539.8	1166.8	321.9	139.1	111.4	84.7	67.3	57.5	52.0	49.6	49.0
40°	1548.2	1127.2	256.0	126.8	97.6	72.8	57.9	49.6	44.1	40.6	40.6
42.5°	1587.8	1109.9	206.6	114.9	84.7	62.9	50.5	42.6	36.6	33.2	33.7
45°	1708.7	1128.2	172.9	104.0	72.8	54.5	43.6	35.2	29.8	27.2	26.8
47.5°	1909.3	1197.1	149.6	92.6	62.4	46.6	36.6	29.2	23.8	21.8	21.3
50°	2259.9	1339.2	132.2	81.2	53.0	39.6	30.2	23.3	18.8	16.8	16.8
52.5°	2742.3	1649.2	119.9	68.4	44.6	33.7	24.7	18.8	14.9	13.4	12.8
55°	3246.5	1976.1	113.4	57.5	37.1	27.7	19.8	14.9	11.4	9.9	9.4
57.5°	3731.3	2232.6	106.0	46.6	29.8	21.3	15.3	11.4	7.9	7.0	6.4
60°	4196.4	2440.1	90.1	37.1	23.3	15.3	11.4	7.9	5.5	4.5	4.5
62.5°	4612.4	2561.0	70.9	29.8	17.9	10.9	7.4	6.0	4.0	3.0	3.0
65°	4661.0	2404.0	53.5	22.8	12.8	7.0	4.5	4.5	3.0	2.0	2.0
66°	4563.4	2270.8	47.1	20.8	11.4	6.0	4.0	3.4	2.5	1.5	1.5
67.5°	4345.5	2043.5	40.6	17.9	9.4	4.5	3.0	3.0	2.0	1.0	1.0
70°	3754.6	1669.0	32.2	13.4	7.0	3.4	2.0	2.0	1.5	1.0	1.0
72.5°	2861.6	1246.1	26.2	9.9	4.9	2.5	1.5	1.5	1.5	1.0	1.0
75°	1726.0	671.1	20.3	7.4	4.5	2.0	1.0	1.5	2.0	1.5	1.0
77.5°	636.0	228.3	15.8	6.0	3.4	2.0	1.0	1.0	2.0	1.5	1.5
80°	156.0	59.4	11.4	4.9	3.4	2.0	1.0	1.0	2.0	2.0	2.0
82.5°	72.3	25.3	7.9	4.5	3.4	2.0	1.0	1.0	1.5	2.0	2.0
85°	41.6	11.9	6.4	4.9	3.4	2.0	1.0	1.0	1.5	2.0	2.0
87.5°	16.8	6.0	6.0	4.9	4.0	2.5	1.0	1.0	1.0	1.5	1.5
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)