

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: P527230

Luminaire Tested: **GALN-SA2B-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

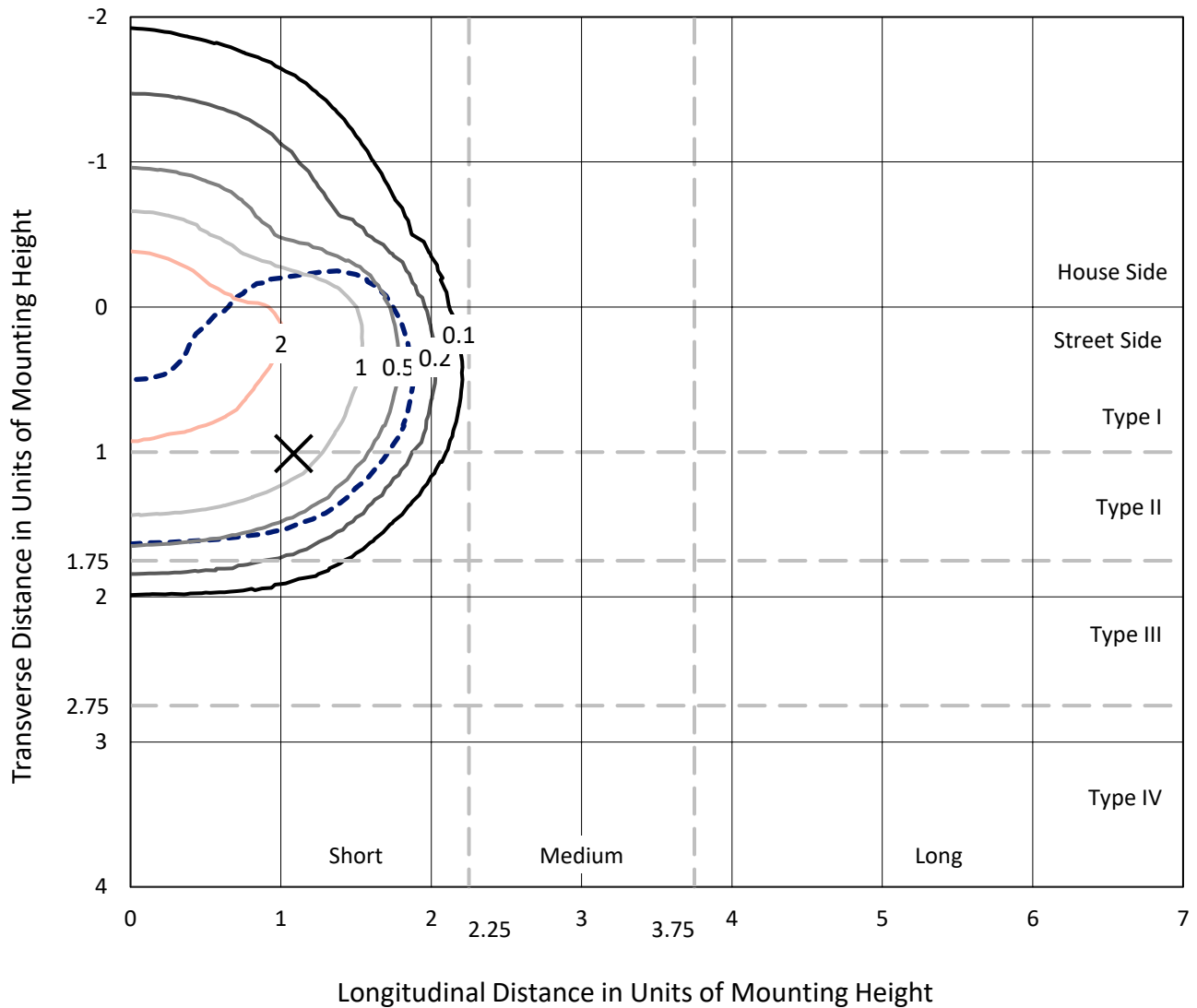
Lumens per Lamp: N/A  
Luminaire Lumens: 8159 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

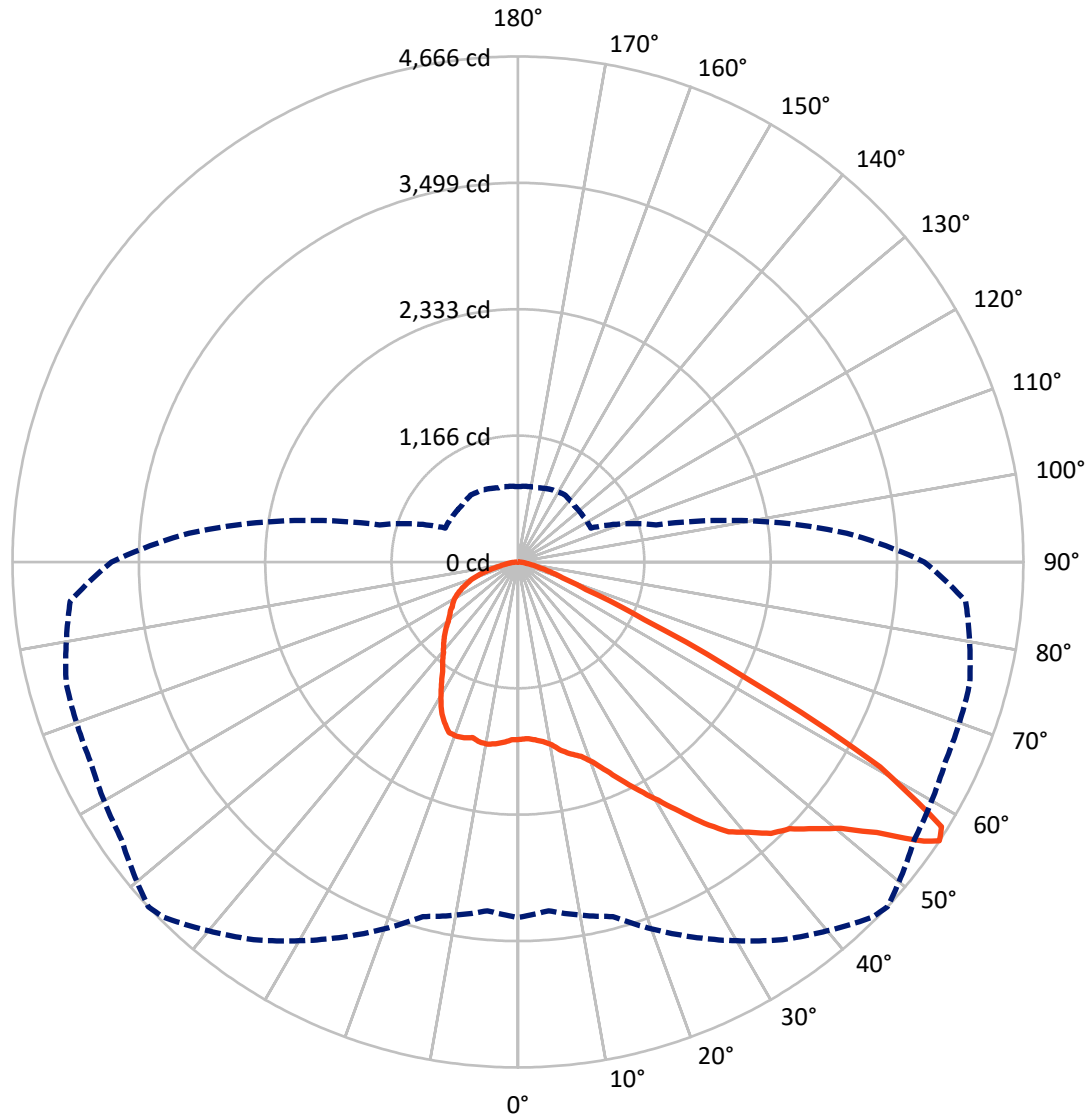
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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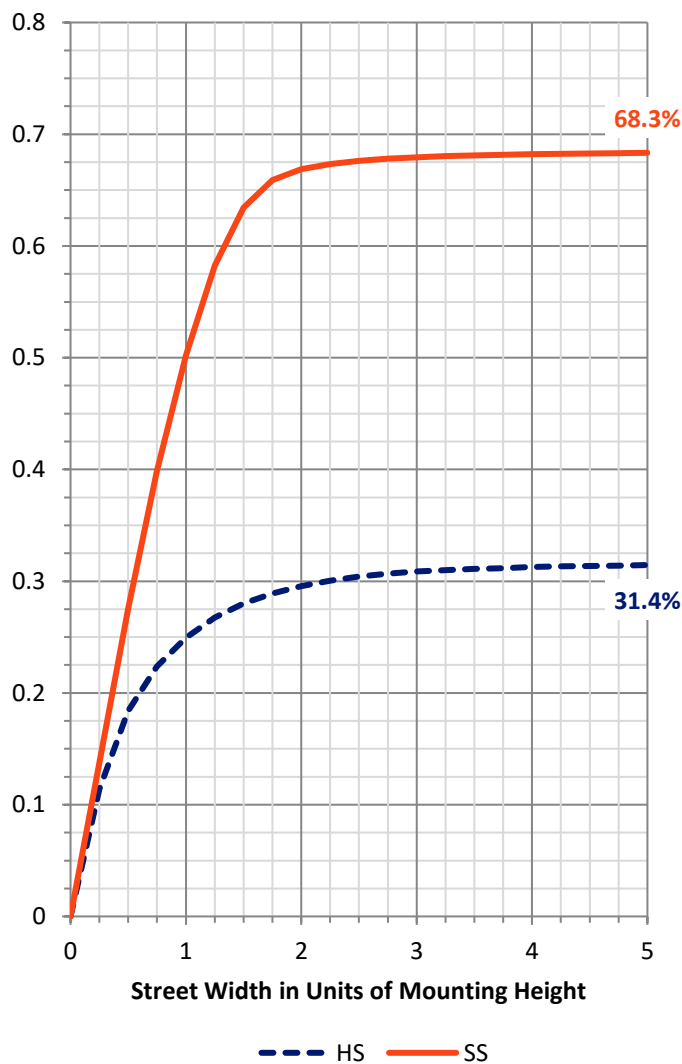
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2585.5	0.0	2585.5
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	5573.5	0.0	5573.5
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	8159.0	0.0	8159.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.7	2.0
10°-20°	503.7	6.2
20°-30°	890.5	10.9
30°-40°	1337.5	16.4
40°-50°	1835.6	22.5
50°-60°	2186.8	26.8
60°-70°	935.8	11.5
70°-80°	264.8	3.2
80°-90°	44.6	0.5
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°	8159.0	100.0
0°-180°	8159.0	100.0

**Coefficient of Utilization**



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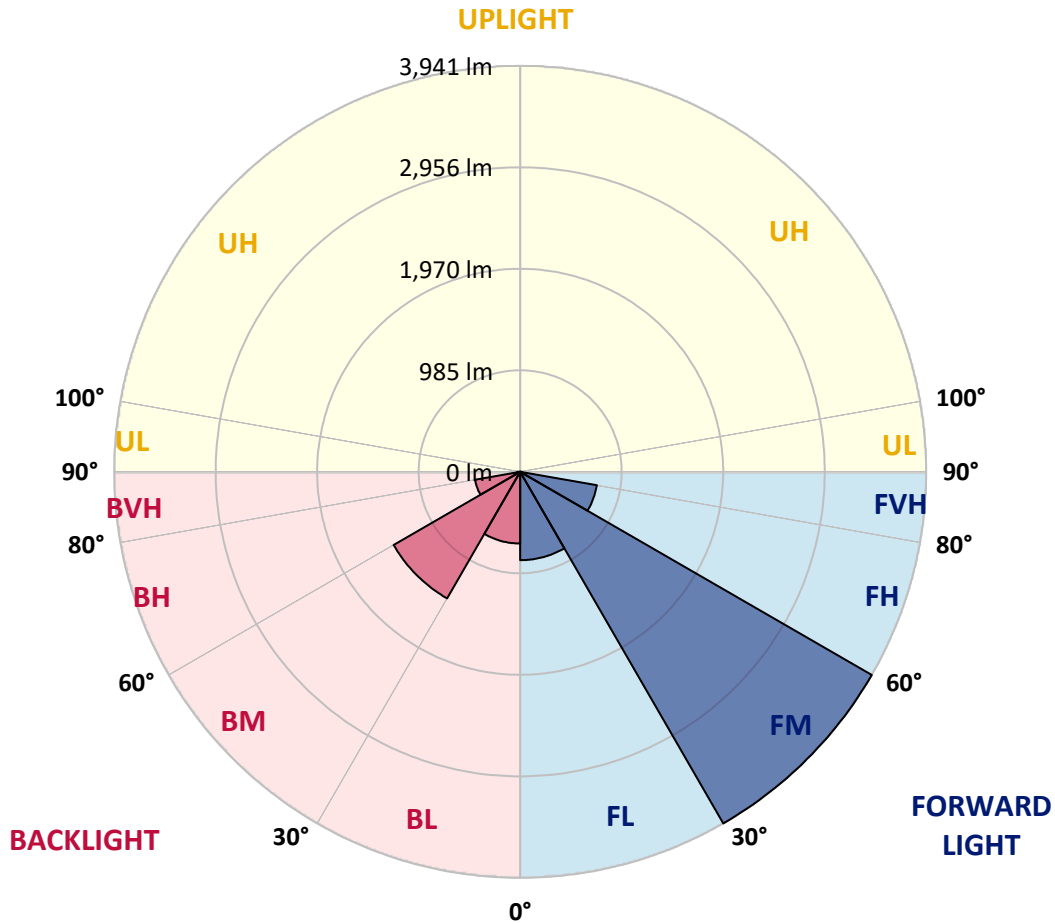
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.8	10.5			
FM (30°-60°)	3941.0	48.3			
FH (60°-80°)	755.8	9.3			G1/1800
FVH (80°-90°)	18.9	0.2			G1/100
BL (0°-30°)	696.1	8.5	B2/1000		
BM (30°-60°)	1418.9	17.4	B2/2500		
BH (60°-80°)	444.8	5.5	B1/500		G1/500
BVH (80°-90°)	25.7	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9
2.5°	1632.7	1629.5	1627.4	1644.1	1637.9	1638.9	1632.7	1638.9	1643.1	1633.7	1647.2
5°	1629.5	1638.9	1630.6	1635.8	1649.3	1645.1	1649.3	1661.8	1658.7	1655.5	1651.4
7.5°	1658.7	1659.7	1665.9	1668.0	1672.2	1668.0	1674.3	1685.7	1682.6	1664.9	1667.0
10°	1700.3	1702.4	1703.4	1714.9	1722.1	1723.2	1715.9	1705.5	1704.5	1728.4	1711.7
12.5°	1748.2	1743.0	1755.4	1759.6	1767.9	1777.3	1786.7	1764.8	1778.3	1779.4	1759.6
15°	1817.9	1823.1	1808.5	1808.5	1811.6	1812.7	1838.7	1828.3	1826.2	1814.8	1823.1
17.5°	1921.9	1886.6	1885.5	1870.9	1868.9	1877.2	1886.6	1894.9	1923.0	1900.1	1855.3
20°	1997.9	2006.2	1976.0	1958.3	1961.5	1980.2	1970.8	2008.3	2028.1	1990.6	1946.9
22.5°	2132.1	2104.0	2111.3	2071.8	2074.9	2094.7	2093.6	2132.1	2143.6	2084.3	2020.8
25°	2222.7	2215.4	2221.6	2190.4	2194.6	2210.2	2235.1	2298.6	2279.9	2214.3	2067.6
27.5°	2354.8	2340.2	2335.0	2323.6	2319.4	2361.0	2390.2	2457.8	2444.3	2348.6	2150.9
30°	2490.1	2480.7	2485.9	2439.1	2455.7	2544.2	2552.5	2645.1	2638.9	2470.3	2243.5
32.5°	2583.7	2588.9	2598.3	2572.3	2646.2	2716.9	2745.0	2850.1	2855.3	2679.5	2422.4
35°	2734.6	2716.9	2722.1	2752.3	2786.6	2915.7	2961.5	3031.2	3074.9	2899.0	2594.1
37.5°	2829.3	2848.0	2826.2	2874.0	2963.5	3118.6	3160.2	3232.0	3277.8	3115.5	2828.3
40°	2977.1	2946.9	2962.5	2996.8	3088.4	3290.3	3278.8	3352.7	3367.3	3299.6	3046.8
42.5°	3136.3	3121.7	3099.9	3177.9	3254.9	3401.6	3424.5	3390.2	3464.1	3479.7	3359.0
45°	3326.7	3344.4	3347.5	3349.6	3417.2	3545.2	3514.0	3483.8	3569.1	3682.6	3552.5
47.5°	3503.6	3447.4	3488.0	3544.2	3639.9	3640.9	3677.4	3605.6	3696.1	3797.0	3727.3
50°	3562.9	3535.9	3590.0	3696.1	3843.9	3859.5	3863.6	3761.7	3808.5	3888.6	3787.7
52.5°	3540.0	3530.6	3669.0	3833.5	4049.9	4129.0	4149.8	4023.9	4049.9	4013.5	3920.9
55°	3430.8	3458.8	3598.3	3933.3	4265.3	4509.8	4549.4	4390.2	4224.7	4252.8	4150.8
56°	3280.9	3232.0	3388.1	3819.9	4255.9	4633.7	4665.9	4467.2	4354.8	4318.4	4148.7
57.5°	2783.5	2720.0	2925.0	3437.0	4019.7	4586.8	4610.8	4499.4	4332.9	4259.0	3845.9
60°	1629.5	1660.7	1920.9	2370.4	3100.9	3760.6	3840.7	3921.9	3810.6	3479.7	2862.6
62.5°	786.7	766.9	953.2	1359.0	1889.7	2400.6	2376.7	2604.5	2729.4	2472.4	1807.5
65°	412.1	410.0	520.3	741.9	1038.5	1261.2	1283.0	1405.8	1577.5	1273.7	917.8
67.5°	302.8	311.1	366.3	521.3	668.0	681.6	678.5	739.8	756.5	639.9	564.0
70°	237.2	241.4	282.0	396.5	497.4	445.4	436.0	443.3	492.2	513.0	488.0
72.5°	171.7	175.9	210.2	267.4	311.1	303.8	310.1	350.7	411.0	432.9	406.9
75°	114.5	117.6	136.3	163.4	184.2	198.7	210.2	257.0	313.2	325.7	313.2
77.5°	79.1	82.2	94.7	115.5	117.6	126.9	131.1	153.0	187.3	202.9	194.6
80°	44.7	44.7	51.0	59.3	72.8	85.3	87.4	105.1	120.7	131.1	133.2
82.5°	20.8	21.9	27.1	36.4	47.9	59.3	61.4	72.8	84.3	94.7	97.8
85°	10.4	11.4	15.6	21.9	29.1	35.4	34.3	35.4	37.5	35.4	36.4
87.5°	3.1	3.1	4.2	5.2	4.2	5.2	5.2	6.2	7.3	8.3	9.4
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°	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9	1638.9
2.5°	1648.3	1651.4	1630.6	1650.3	1643.1	1642.0	1656.6	1654.5	1659.7	1657.6	1645.1
5°	1649.3	1642.0	1663.9	1644.1	1653.5	1673.2	1659.7	1690.9	1675.3	1685.7	1662.8
7.5°	1681.6	1683.6	1679.5	1687.8	1683.6	1693.0	1685.7	1693.0	1680.5	1681.6	1702.4
10°	1709.7	1703.4	1710.7	1700.3	1707.6	1704.5	1687.8	1682.6	1686.8	1681.6	1695.1
12.5°	1761.7	1750.2	1745.0	1732.5	1724.2	1693.0	1667.0	1652.4	1672.2	1675.3	1669.1
15°	1814.8	1815.8	1791.9	1763.8	1711.7	1664.9	1671.2	1676.4	1676.4	1684.7	1669.1
17.5°	1848.0	1848.0	1826.2	1770.0	1716.9	1689.9	1683.6	1667.0	1652.4	1650.3	1649.3
20°	1906.3	1888.6	1838.7	1769.0	1714.9	1702.4	1655.5	1616.0	1585.8	1575.4	1574.4
22.5°	1972.9	1928.2	1858.5	1771.0	1711.7	1694.0	1606.6	1547.3	1493.2	1470.3	1473.4
25°	2034.3	1962.5	1869.9	1761.7	1700.3	1615.0	1517.1	1434.9	1378.8	1360.0	1350.7
27.5°	2077.0	1998.9	1869.9	1770.0	1657.6	1526.5	1426.6	1321.5	1272.6	1260.1	1262.2
30°	2134.2	2044.7	1902.2	1752.3	1572.3	1412.1	1292.4	1223.7	1194.6	1184.2	1191.5
32.5°	2268.4	2164.4	1946.9	1709.7	1471.4	1297.6	1200.8	1162.3	1119.7	1098.8	1091.6
35°	2414.1	2277.8	1990.6	1637.9	1357.9	1193.5	1133.2	1097.8	1046.8	1023.9	1028.1
37.5°	2620.2	2423.5	1993.7	1519.2	1235.2	1135.3	1080.1	1025.0	983.3	948.0	937.6
40°	2898.0	2622.2	1986.4	1394.4	1136.3	1066.6	1026.0	957.3	910.5	885.5	890.7
42.5°	3142.5	2855.3	1956.3	1252.8	1046.8	1019.8	974.0	906.3	860.6	834.5	832.5
45°	3348.5	3027.0	1899.0	1132.1	971.9	967.7	914.7	862.6	826.2	802.3	812.7
47.5°	3539.0	3165.4	1812.7	1011.4	903.2	911.5	860.6	828.3	805.4	783.5	782.5
50°	3607.7	3163.3	1736.7	911.5	848.1	843.9	841.8	807.5	783.5	764.8	773.1
52.5°	3722.1	3198.7	1654.5	842.9	798.1	799.2	806.4	781.5	754.4	743.0	753.4
55°	3886.5	3203.9	1473.4	762.7	756.5	763.8	763.8	747.1	724.2	714.9	709.7
56°	3752.3	3048.9	1321.5	741.9	735.7	735.7	755.5	736.7	708.6	701.3	695.1
57.5°	3460.9	2671.1	1106.1	717.0	707.6	722.2	732.6	712.8	686.8	676.4	682.6
60°	2387.1	1807.5	831.4	662.8	662.8	686.8	695.1	666.0	654.5	653.5	645.2
62.5°	1393.3	1053.1	650.4	613.9	616.0	635.8	642.0	625.4	610.8	628.5	636.8
65°	738.8	628.5	557.7	561.9	562.9	578.6	605.6	604.6	603.5	608.7	609.8
67.5°	534.9	522.4	506.8	502.6	504.7	516.1	543.2	564.0	562.9	550.5	541.1
70°	476.6	458.9	449.5	450.6	442.2	455.8	477.6	491.1	467.2	452.6	446.4
72.5°	396.5	391.3	385.0	386.1	369.4	366.3	341.3	341.3	335.1	330.9	338.2
75°	302.8	300.7	303.8	298.6	281.0	262.2	247.7	234.1	213.3	205.0	200.8
77.5°	191.5	197.7	205.0	193.5	186.3	172.7	158.2	144.6	128.0	118.6	118.6
80°	130.1	135.3	140.5	138.4	130.1	117.6	106.1	91.6	80.1	72.8	71.8
82.5°	98.9	103.0	110.3	102.0	93.7	83.2	73.9	63.5	53.1	44.7	44.7
85°	35.4	40.6	44.7	48.9	52.0	53.1	45.8	37.5	30.2	23.9	22.9
87.5°	9.4	10.4	11.4	10.4	10.4	10.4	11.4	10.4	9.4	7.3	7.3
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)