

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: P527382

Luminaire Tested: **GALN-SA2B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7056 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

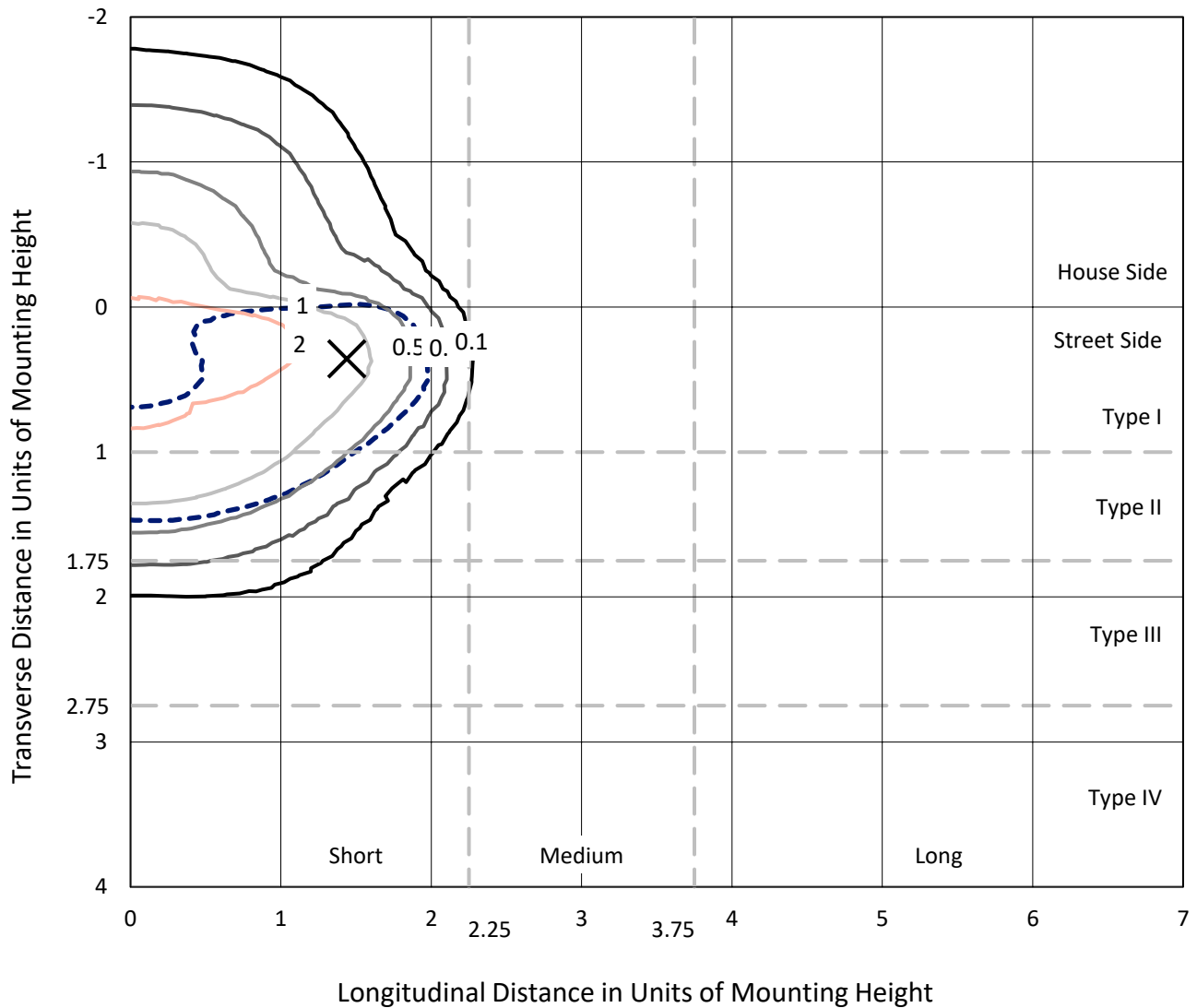
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527382  
 CATALOG NUMBER: GALN-SA2B-827-U-T2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

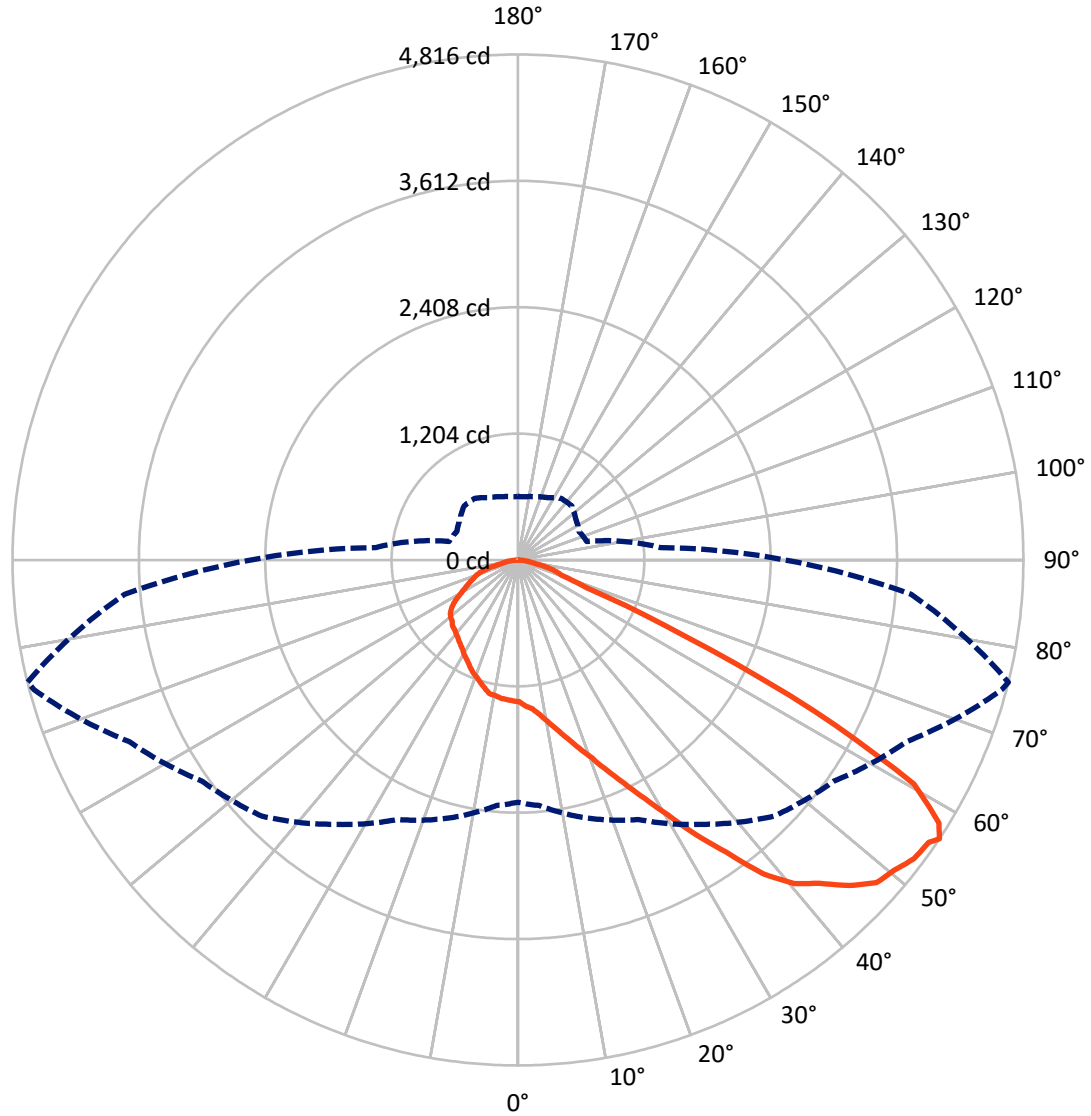
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

REPORT NUMBER: P527382  
CATALOG NUMBER: GALN-SA2B-827-U-T2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P527382  
 CATALOG NUMBER: GALN-SA2B-827-U-T2-GRSWH

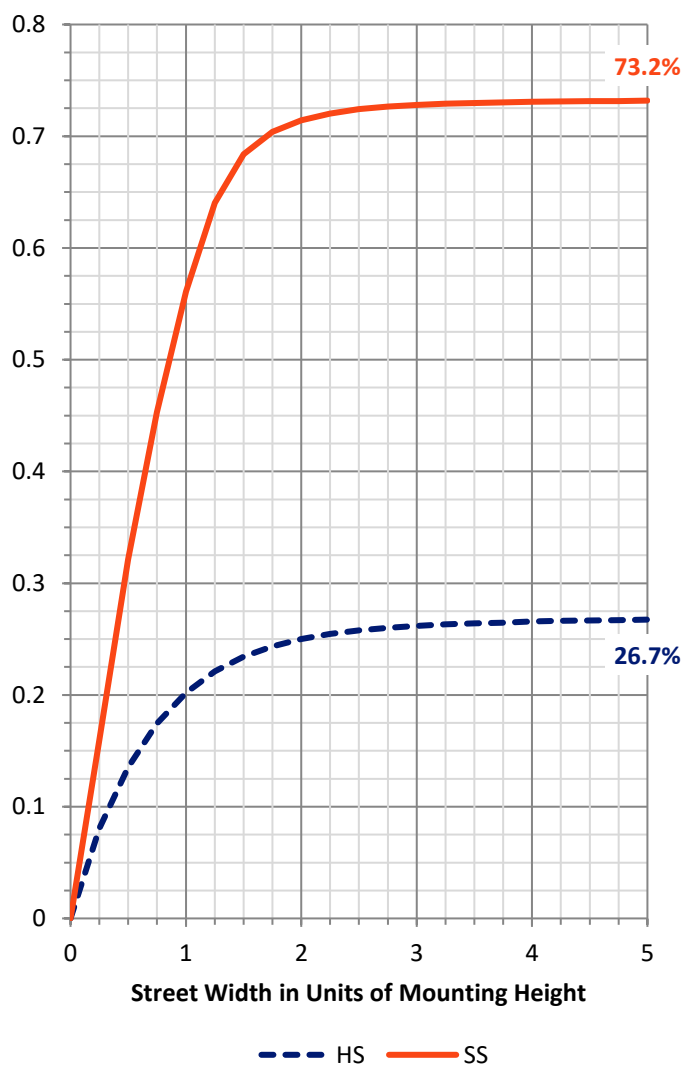
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1897.1	0.0	1897.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	5158.9	0.0	5158.9
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	7056.0	0.0	7056.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.9	1.9
10°-20°	420.6	6.0
20°-30°	735.5	10.4
30°-40°	1151.6	16.3
40°-50°	1675.3	23.7
50°-60°	1841.3	26.1
60°-70°	821.9	11.6
70°-80°	237.4	3.4
80°-90°	38.5	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°	7056.0	100.0
0°-180°	7056.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527382

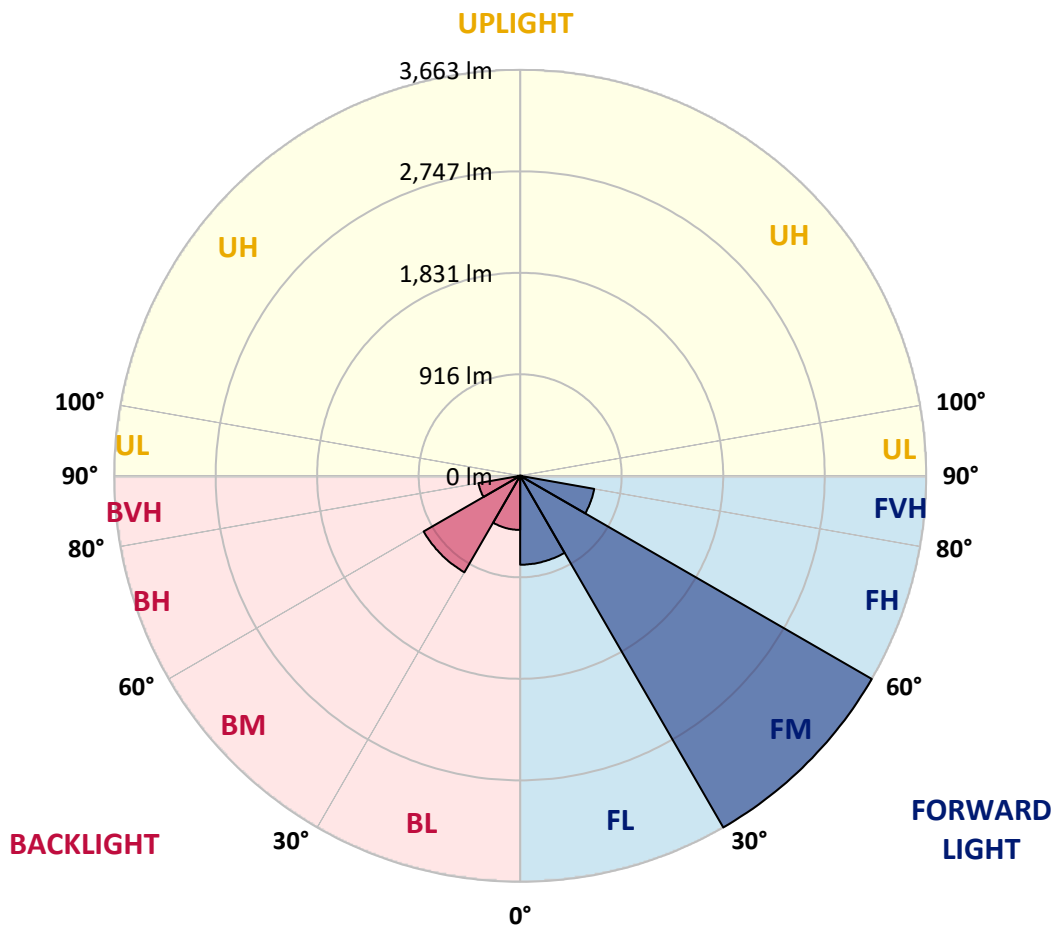
CATALOG NUMBER: GALN-SA2B-827-U-T2-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.8	11.4			
FM (30°-60°)	3662.9	51.9			
FH (60°-80°)	677.5	9.6			G1/1800
FVH (80°-90°)	16.6	0.2			G1/100
BL (0°-30°)	488.2	6.9	B1/500		
BM (30°-60°)	1005.3	14.2	B2/2500		
BH (60°-80°)	381.7	5.4	B1/500		G1/500
BVH (80°-90°)	21.9	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





REPORT NUMBER: P527382

CATALOG NUMBER: GALN-SA2B-827-U-T2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1
2.5°	1487.3	1463.5	1461.7	1455.3	1458.9	1442.5	1425.1	1402.2	1378.4	1393.1	1358.3
5°	1591.6	1559.5	1572.3	1550.4	1553.1	1531.2	1495.5	1469.0	1439.7	1422.3	1397.6
7.5°	1628.1	1630.9	1640.0	1636.4	1618.1	1618.1	1594.3	1547.6	1496.4	1486.4	1445.2
10°	1677.5	1678.4	1668.4	1671.1	1696.7	1684.8	1663.8	1643.7	1577.8	1565.9	1492.8
12.5°	1694.9	1678.4	1694.9	1709.5	1739.7	1756.2	1751.6	1737.0	1666.6	1658.3	1551.3
15°	1697.7	1687.6	1701.3	1734.2	1760.8	1830.3	1865.0	1855.0	1761.7	1762.6	1617.2
17.5°	1684.8	1698.6	1704.1	1732.4	1793.7	1858.6	1959.3	1973.0	1896.1	1884.3	1700.4
20°	1702.2	1692.2	1699.5	1725.1	1806.5	1908.0	2039.7	2130.3	2022.4	2014.1	1786.4
22.5°	1769.0	1755.3	1753.5	1769.9	1828.5	1933.6	2124.8	2287.6	2176.0	2180.6	1893.4
25°	1821.1	1828.5	1822.1	1821.1	1857.7	1972.1	2237.3	2475.1	2384.6	2358.1	2019.6
27.5°	1910.8	1928.2	1915.4	1932.7	1924.5	2029.7	2317.8	2682.8	2609.6	2573.9	2134.0
30°	2035.2	2044.3	2032.4	2032.4	2007.7	2110.2	2391.0	2899.6	2869.4	2820.9	2268.4
32.5°	2198.9	2212.6	2188.8	2175.1	2171.5	2230.0	2522.7	3113.6	3164.8	3123.6	2446.8
35°	2415.7	2407.5	2379.1	2366.3	2316.9	2413.9	2718.4	3359.6	3494.1	3420.9	2662.6
37.5°	2606.9	2594.0	2592.2	2520.9	2532.8	2612.3	2884.9	3546.2	3813.3	3792.3	2890.4
40°	2785.2	2797.1	2816.3	2776.1	2757.8	2845.6	3078.8	3688.9	4061.2	4053.0	3066.0
42.5°	2976.4	2965.4	2999.3	2965.4	2938.0	3062.4	3289.2	3787.7	4278.9	4211.2	3249.9
45°	3253.5	3218.8	3230.7	3233.4	3213.3	3259.0	3376.1	3859.1	4431.6	4424.3	3384.3
47.5°	3484.9	3485.9	3465.7	3450.2	3388.9	3434.6	3473.1	3903.9	4607.3	4595.4	3436.5
50°	3570.9	3559.0	3617.6	3651.4	3655.1	3561.8	3549.0	3928.6	4699.7	4647.5	3488.6
52.5°	3261.8	3272.7	3365.1	3566.4	3682.5	3692.6	3637.7	3979.8	4737.2	4726.2	3530.7
55°	2625.1	2678.2	2830.0	3062.4	3337.7	3640.4	3733.7	4032.8	4757.3	4748.1	3717.3
56°	2307.8	2348.9	2546.5	2728.5	3074.3	3451.1	3673.4	4089.6	4772.8	4815.8	3761.2
57.5°	1857.7	1905.3	2047.1	2253.8	2661.7	3090.7	3506.9	4020.0	4712.5	4728.9	3793.2
60°	1161.6	1166.2	1336.4	1472.6	1759.9	2178.8	2676.4	3497.8	4361.2	4337.4	3407.2
62.5°	761.9	762.8	917.4	1029.0	1159.8	1255.9	1575.1	2319.6	3217.9	3175.8	2425.7
65°	535.1	547.0	666.8	815.9	869.0	818.6	808.6	1222.9	1797.4	1737.0	1303.4
67.5°	391.5	392.4	498.5	658.6	735.4	622.9	505.8	597.3	711.6	709.8	603.7
70°	258.9	269.8	351.2	492.1	579.9	500.3	413.4	427.2	452.8	452.8	449.1
72.5°	150.9	161.0	215.0	311.9	325.6	312.8	327.5	365.9	382.3	381.4	376.9
75°	86.0	90.6	102.4	129.9	161.9	191.2	240.6	277.1	293.6	303.7	291.8
77.5°	50.3	53.1	60.4	74.1	84.2	103.4	130.8	156.4	178.4	175.6	177.4
80°	26.5	26.5	33.8	43.9	58.5	73.2	86.9	101.5	113.4	116.2	118.9
82.5°	15.5	16.5	22.0	32.0	42.1	52.1	66.8	76.8	87.8	88.7	90.6
85°	8.2	9.1	13.7	21.0	28.4	32.0	32.9	31.1	33.8	32.0	36.6
87.5°	2.7	2.7	4.6	3.7	3.7	4.6	5.5	5.5	7.3	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



REPORT NUMBER: P527382

CATALOG NUMBER: GALN-SA2B-827-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1	1350.1
2.5°	1357.4	1357.4	1341.8	1312.6	1308.0	1296.1	1285.1	1284.2	1276.0	1268.7	1265.0
5°	1383.0	1354.6	1331.8	1305.3	1274.2	1259.5	1243.1	1224.8	1217.4	1224.8	1223.8
7.5°	1412.3	1388.5	1319.9	1270.5	1234.8	1220.2	1201.9	1182.7	1184.5	1184.5	1171.7
10°	1440.6	1408.6	1298.9	1235.7	1183.6	1172.6	1162.6	1169.9	1179.0	1180.9	1172.6
12.5°	1488.2	1415.9	1288.8	1201.0	1168.1	1144.3	1150.7	1170.8	1190.0	1184.5	1190.9
15°	1523.9	1422.3	1243.1	1165.3	1124.1	1135.1	1158.0	1171.7	1203.7	1200.1	1206.5
17.5°	1558.6	1426.0	1198.2	1117.7	1100.4	1130.6	1147.9	1187.3	1197.3	1219.3	1227.5
20°	1630.0	1433.3	1152.5	1088.5	1083.0	1117.7	1147.9	1166.2	1188.2	1207.4	1207.4
22.5°	1666.6	1429.7	1122.3	1050.1	1067.4	1089.4	1116.8	1147.9	1147.9	1166.2	1167.1
25°	1712.3	1415.0	1074.8	1031.8	1044.6	1065.6	1096.7	1085.7	1097.6	1097.6	1112.3
27.5°	1764.4	1383.9	1033.6	998.8	1024.4	1047.3	1051.9	1044.6	1030.8	1029.0	1023.5
30°	1806.5	1345.5	1003.4	987.9	1008.9	1021.7	1007.1	991.5	967.7	965.9	953.1
32.5°	1864.1	1297.9	965.9	960.4	984.2	985.1	980.5	956.8	922.0	907.4	892.7
35°	1961.1	1270.5	937.6	945.8	953.1	950.4	942.1	916.5	881.8	875.4	869.9
37.5°	2032.4	1250.4	908.3	918.3	924.7	928.4	903.7	875.4	876.3	863.5	859.8
40°	2112.9	1237.6	884.5	889.1	890.0	901.9	871.7	858.0	864.4	856.1	861.6
42.5°	2216.3	1241.2	859.8	856.1	873.5	869.0	854.3	836.0	839.7	815.0	818.6
45°	2271.2	1265.9	845.2	828.7	847.9	847.0	827.8	810.4	788.5	740.9	742.7
47.5°	2307.8	1272.3	810.4	799.4	819.6	831.4	809.5	769.3	738.2	704.3	696.1
50°	2345.3	1284.2	793.9	771.1	779.3	807.7	780.2	741.8	711.6	681.4	686.0
52.5°	2378.2	1307.1	761.9	728.1	742.7	773.8	759.2	712.5	679.6	654.9	647.6
55°	2524.5	1358.3	708.0	664.1	698.8	738.2	729.9	673.2	637.5	624.7	622.9
56°	2547.4	1360.1	679.6	642.1	674.1	726.3	716.2	655.8	623.8	603.7	604.6
57.5°	2551.1	1338.2	639.4	622.0	649.4	708.9	696.1	642.1	598.2	579.9	574.4
60°	2244.6	1044.6	589.1	578.1	610.1	655.8	651.3	604.6	555.2	534.2	544.2
62.5°	1530.3	765.6	549.7	547.9	564.4	609.2	597.3	555.2	514.1	500.3	493.9
65°	890.9	580.8	511.3	504.0	517.7	541.5	549.7	505.8	462.8	453.7	450.9
67.5°	525.9	480.2	461.9	450.0	445.5	460.1	466.5	440.9	397.9	385.1	396.1
70°	440.0	427.2	428.1	407.9	397.0	386.9	381.4	358.6	322.9	306.4	301.8
72.5°	379.6	374.1	370.4	352.2	342.1	319.2	295.4	272.6	246.1	232.3	233.2
75°	290.0	288.1	290.0	280.8	263.4	245.1	223.2	193.9	173.8	156.4	160.1
77.5°	172.9	178.4	181.1	177.4	170.1	153.7	139.9	120.7	101.5	87.8	86.0
80°	118.9	123.5	128.1	123.5	116.2	104.3	89.6	75.0	61.3	54.0	52.1
82.5°	90.6	95.1	97.9	93.3	84.2	71.3	61.3	51.2	40.2	32.9	31.1
85°	32.9	37.5	36.6	43.9	47.6	45.7	39.3	30.2	22.9	16.5	15.5
87.5°	9.1	8.2	9.1	9.1	9.1	8.2	7.3	7.3	7.3	4.6	3.7
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)