

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: P528320

Luminaire Tested: **GALN-SA3B-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10973 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

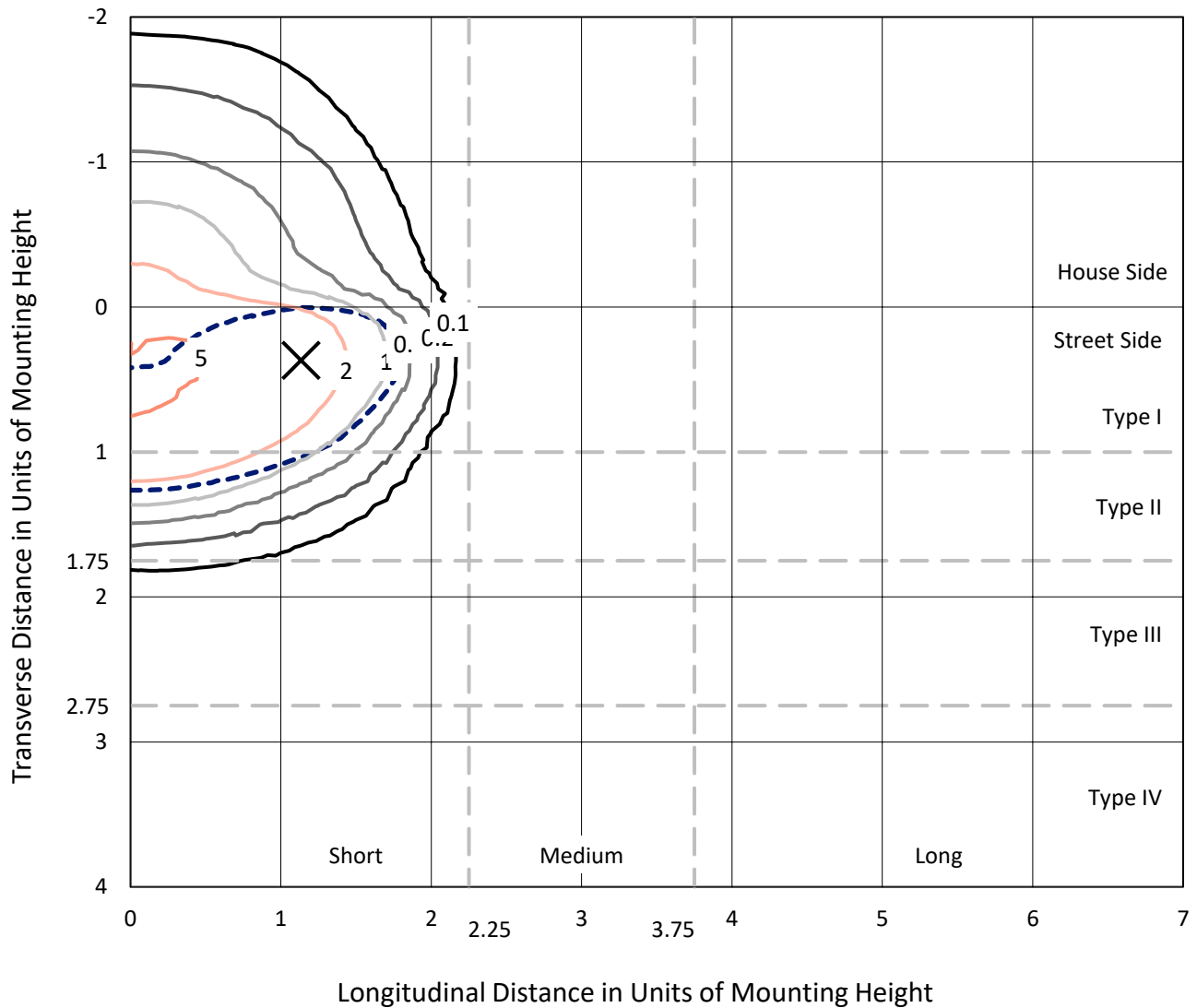
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

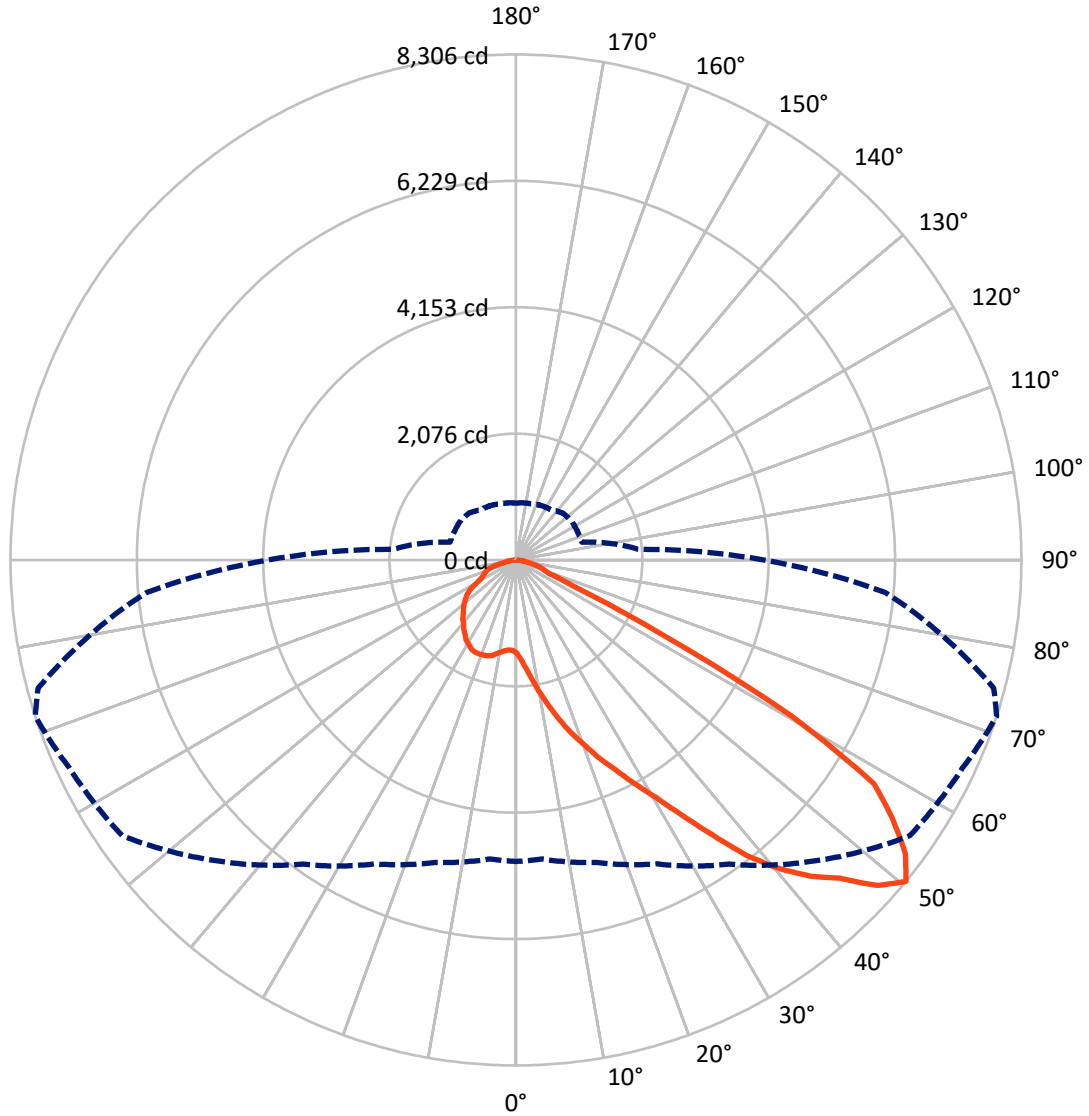
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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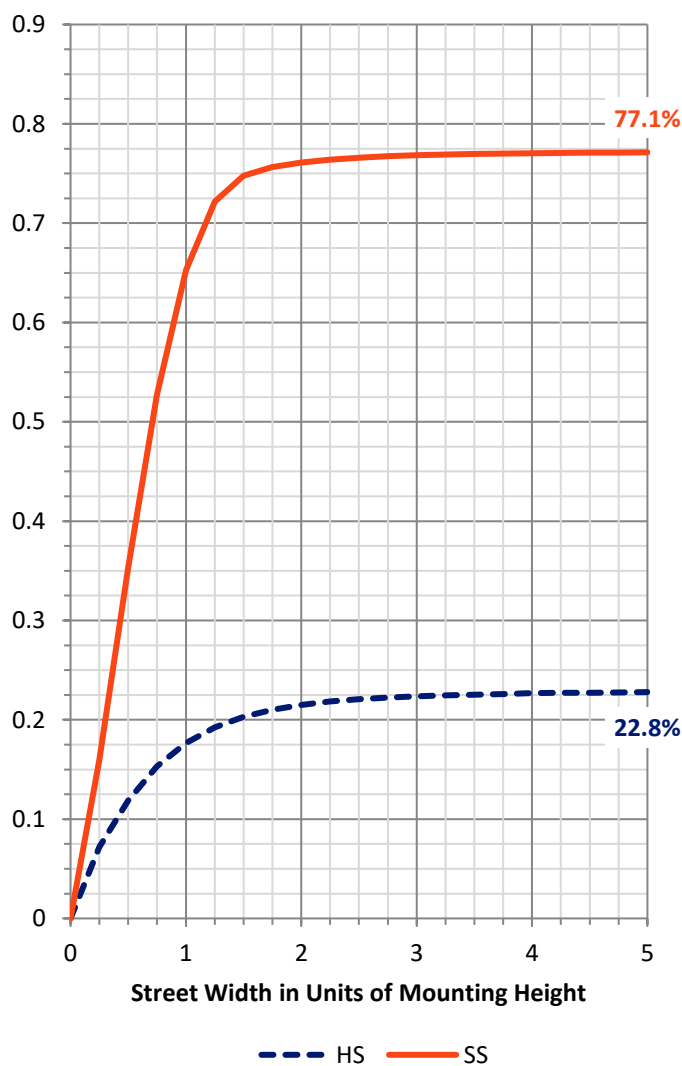
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2514.0	0.0	2514.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8459.0	0.0	8459.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10973.0	0.0	10973.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.7	1.6
10°-20°	671.7	6.1
20°-30°	1302.4	11.9
30°-40°	2157.6	19.7
40°-50°	3018.9	27.5
50°-60°	2546.8	23.2
60°-70°	776.3	7.1
70°-80°	272.3	2.5
80°-90°	47.3	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°	10973.0	100.0
0°-180°	10973.0	100.0

**Coefficient of Utilization**

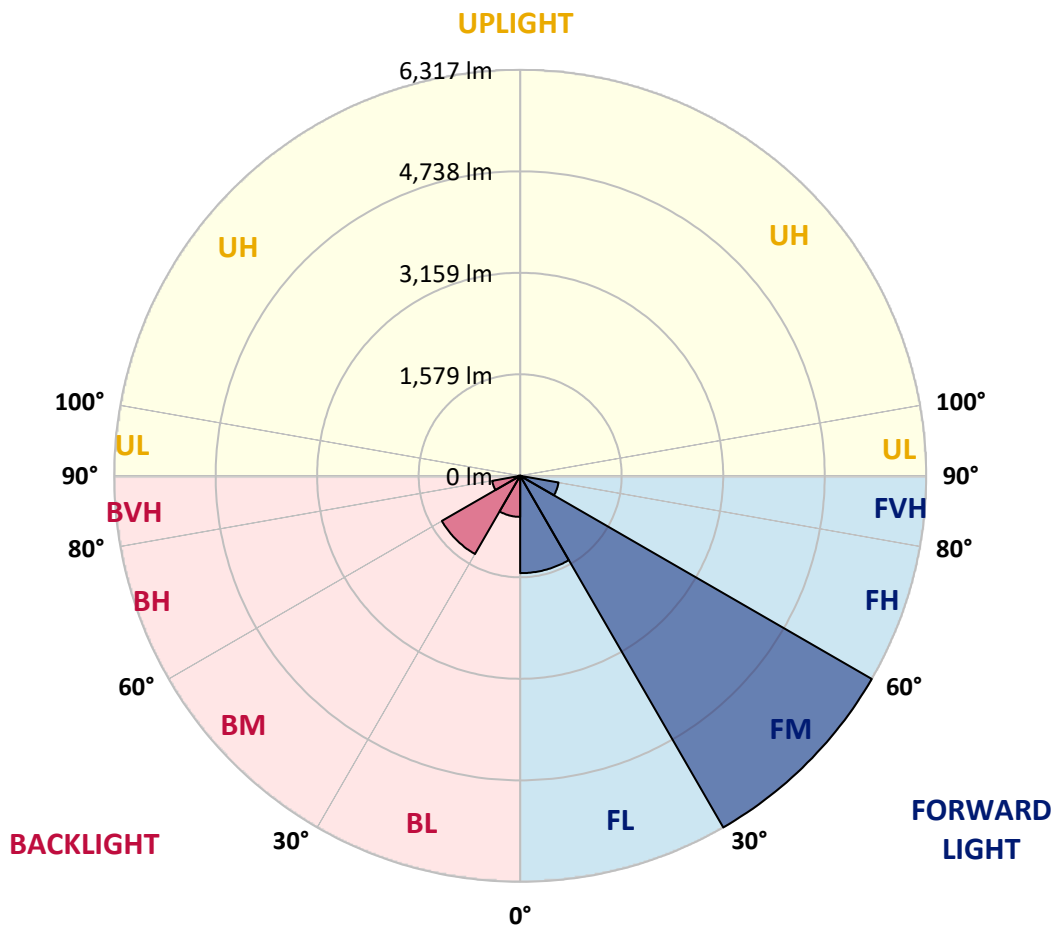


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.7	13.8			
FM (30°-60°)	6317.4	57.6			
FH (60°-80°)	605.7	5.5			G0/660
FVH (80°-90°)	21.2	0.2			G1/100
BL (0°-30°)	639.1	5.8	B2/1000		
BM (30°-60°)	1405.9	12.8	B2/2500		
BH (60°-80°)	442.9	4.0	B1/500		G1/500
BVH (80°-90°)	26.1	0.2			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°	55°	65°	72°	75°	85°
0°	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5
2.5°	1964.7	1952.5	1915.9	1903.6	1860.2	1781.4	1754.3	1674.2	1640.2	1609.0	1572.3
5°	2484.8	2427.8	2423.7	2354.4	2254.0	2195.6	2021.8	1905.0	1797.7	1743.4	1642.9
7.5°	2816.1	2817.5	2817.5	2760.4	2680.3	2532.3	2376.2	2165.7	2004.1	1924.0	1752.9
10°	3131.1	3104.0	3089.0	3083.6	3029.3	2885.3	2718.3	2457.6	2236.3	2142.6	1835.8
12.5°	3353.8	3330.7	3364.7	3347.0	3307.6	3213.9	3056.4	2759.1	2482.1	2355.8	1968.8
15°	3459.7	3476.0	3503.1	3552.0	3534.4	3499.1	3325.3	3068.6	2746.8	2604.3	2087.0
17.5°	3622.6	3577.8	3610.4	3671.5	3720.4	3704.1	3605.0	3292.7	3008.9	2833.7	2245.8
20°	3736.7	3710.9	3727.2	3797.8	3834.5	3926.8	3875.2	3586.0	3260.1	3075.4	2433.2
22.5°	4062.6	4024.5	3971.6	3982.5	3996.0	4061.2	4073.4	3907.8	3552.0	3356.5	2611.1
25°	4464.5	4429.2	4366.7	4302.9	4263.5	4251.3	4293.4	4160.3	3831.7	3629.4	2802.5
27.5°	4907.1	4847.4	4808.0	4676.3	4570.4	4554.1	4533.7	4461.8	4163.0	3944.4	3018.4
30°	5337.5	5290.0	5237.1	5026.6	4916.6	4899.0	4798.5	4818.9	4522.9	4279.8	3262.8
32.5°	5663.4	5667.5	5546.6	5387.8	5284.6	5190.9	5154.2	5212.6	4984.5	4789.0	3535.7
35°	5926.8	5939.1	5823.6	5679.7	5568.4	5633.5	5617.3	5644.4	5535.8	5296.8	3853.5
37.5°	6183.5	6122.4	5998.8	5929.6	5871.2	5978.4	6116.9	6140.0	6160.4	5879.3	4222.8
40°	6225.6	6231.0	6159.0	6207.9	6134.6	6296.2	6618.0	6588.1	6670.9	6425.2	4623.3
42.5°	6165.8	6178.0	6206.5	6275.8	6452.3	6646.5	7124.4	7002.2	7102.7	6884.1	5013.0
45°	6068.0	6017.8	6053.1	6316.5	6622.0	7053.8	7587.4	7492.4	7459.8	7276.5	5477.4
47.5°	5601.0	5652.6	5762.5	6087.1	6546.0	7124.4	7916.0	7894.3	7992.1	7863.1	5899.7
50°	4953.3	4932.9	5144.7	5510.0	6102.0	6985.9	7898.4	8095.3	8305.7	8126.5	6088.4
52.5°	3709.5	3818.2	4000.1	4453.6	5298.2	6231.0	7512.8	7841.3	8012.4	7974.4	5936.3
55°	2344.9	2377.5	2487.5	3026.6	3786.9	5000.8	6440.1	7201.8	7507.3	7649.9	5796.5
57.5°	1139.2	1078.1	1212.5	1645.7	2187.4	3363.3	4966.9	6273.1	6937.0	7195.0	5492.3
60°	594.7	617.8	670.8	825.5	1131.1	1746.1	3095.8	4180.7	5195.0	5591.5	4163.0
62.5°	492.9	501.0	536.3	613.7	752.2	1004.8	1580.5	2038.1	2649.1	3006.2	2368.0
65°	418.2	422.3	460.3	511.9	600.2	707.4	813.3	851.3	1030.6	1057.7	841.8
67.5°	349.0	353.0	393.8	442.6	499.7	528.2	555.3	552.6	573.0	564.8	563.5
70°	268.8	272.9	315.0	366.6	395.1	378.8	463.0	482.0	490.2	497.0	507.8
72.5°	194.2	202.3	234.9	271.6	256.6	294.6	381.5	410.1	420.9	425.0	438.6
75°	141.2	143.9	152.1	141.2	162.9	205.0	268.8	304.1	317.7	321.8	342.2
77.5°	62.5	63.8	65.2	81.5	104.6	127.6	160.2	188.7	207.7	213.2	218.6
80°	32.6	33.9	42.1	55.7	74.7	93.7	116.8	133.1	145.3	146.6	152.1
82.5°	20.4	21.7	29.9	39.4	53.0	69.2	85.5	99.1	108.6	110.0	111.3
85°	9.5	12.2	17.7	24.4	35.3	44.8	46.2	39.4	42.1	43.4	40.7
87.5°	2.7	4.1	5.4	4.1	5.4	5.4	6.8	8.1	8.1	8.1	9.5
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°	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5
2.5°	1552.0	1539.8	1492.2	1474.6	1428.4	1436.6	1412.1	1410.8	1405.3	1404.0	1402.6
5°	1590.0	1552.0	1494.9	1451.5	1425.7	1423.0	1405.3	1405.3	1410.8	1414.8	1405.3
7.5°	1652.5	1609.0	1512.6	1471.9	1448.8	1444.7	1432.5	1423.0	1435.2	1431.1	1420.3
10°	1724.4	1648.4	1546.5	1511.2	1473.2	1463.7	1463.7	1467.8	1447.4	1454.2	1443.4
12.5°	1804.5	1702.7	1590.0	1549.3	1504.5	1499.0	1496.3	1466.4	1477.3	1471.9	1444.7
15°	1906.4	1765.2	1645.7	1576.4	1538.4	1514.0	1478.7	1473.2	1466.4	1452.9	1440.6
17.5°	2016.3	1833.0	1671.5	1584.6	1527.5	1509.9	1482.7	1454.2	1433.8	1436.6	1427.1
20°	2110.0	1895.5	1681.0	1592.7	1519.4	1485.4	1443.4	1425.7	1404.0	1402.6	1401.3
22.5°	2221.4	1979.7	1694.5	1571.0	1494.9	1459.6	1431.1	1399.9	1385.0	1366.0	1375.5
25°	2354.4	2012.3	1697.3	1558.8	1477.3	1414.8	1399.9	1366.0	1360.5	1333.4	1338.8
27.5°	2450.8	2029.9	1675.5	1520.7	1436.6	1389.0	1361.9	1337.4	1327.9	1307.6	1302.1
30°	2579.8	2057.1	1629.4	1473.2	1395.8	1342.9	1326.6	1321.1	1294.0	1272.3	1269.6
32.5°	2726.5	2074.7	1599.5	1424.3	1353.7	1313.0	1321.1	1295.3	1261.4	1242.4	1237.0
35°	2843.3	2081.5	1524.8	1368.7	1325.2	1299.4	1289.9	1284.5	1235.6	1218.0	1204.4
37.5°	3021.1	2066.6	1462.4	1329.3	1294.0	1284.5	1276.3	1239.7	1184.0	1158.2	1139.2
40°	3228.9	2062.5	1382.2	1273.6	1264.1	1275.0	1250.5	1193.5	1116.1	1087.6	1074.0
42.5°	3428.5	2091.0	1332.0	1243.8	1231.5	1235.6	1201.7	1116.1	1078.1	1061.8	1040.1
45°	3762.5	2150.8	1249.2	1197.6	1192.2	1189.4	1148.7	1059.1	1037.4	1017.0	1012.9
47.5°	4063.9	2111.4	1196.2	1150.1	1155.5	1140.6	1053.7	1025.1	1000.7	980.3	973.5
50°	4081.6	2017.7	1121.6	1113.4	1114.8	1089.0	1006.1	987.1	955.9	942.3	932.8
52.5°	3989.2	1864.3	1052.3	1055.0	1059.1	1017.0	947.8	934.2	908.4	889.4	883.9
55°	3729.9	1625.3	984.4	995.3	1006.1	926.0	904.3	870.4	850.0	822.8	824.2
57.5°	3285.9	1308.9	889.4	907.0	930.1	841.8	825.5	783.5	753.6	731.9	729.1
60°	2202.4	931.5	746.8	753.6	805.2	769.9	768.5	726.4	685.7	666.7	655.8
62.5°	1299.4	711.5	645.0	638.2	636.8	657.2	691.1	676.2	623.2	586.6	597.4
65°	680.3	615.1	600.2	577.1	563.5	558.1	583.9	590.6	555.3	516.0	513.3
67.5°	571.6	571.6	559.4	551.3	532.3	509.2	492.9	471.2	465.7	454.9	441.3
70°	520.0	533.6	529.5	510.5	494.2	468.4	426.4	391.0	357.1	344.9	353.0
72.5°	453.5	467.1	467.1	457.6	435.9	396.5	355.7	315.0	286.5	264.8	262.1
75°	349.0	355.7	372.0	361.2	332.7	308.2	266.1	224.0	196.9	176.5	172.4
77.5°	222.7	233.5	233.5	232.2	211.8	188.7	161.6	131.7	111.3	96.4	92.3
80°	148.0	154.8	160.2	154.8	141.2	123.6	103.2	82.8	67.9	55.7	53.0
82.5°	108.6	116.8	120.8	115.4	101.8	88.3	73.3	58.4	43.4	33.9	31.2
85°	42.1	43.4	48.9	58.4	57.0	55.7	44.8	32.6	24.4	17.7	16.3
87.5°	10.9	9.5	10.9	10.9	9.5	8.1	8.1	8.1	8.1	4.1	5.4
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)