

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: P526997

Luminaire Tested: **GALN-SA2A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-727-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4677 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

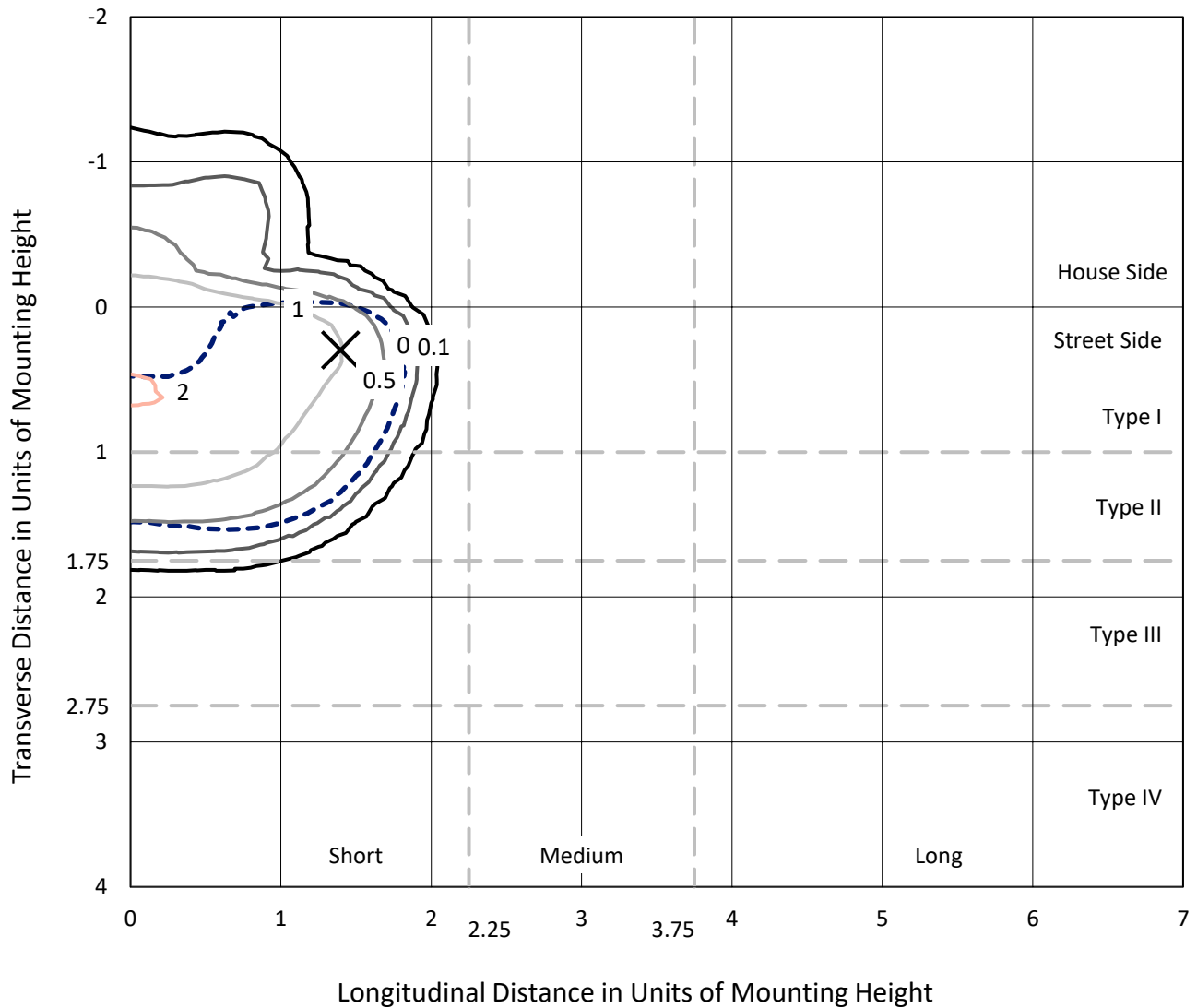
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

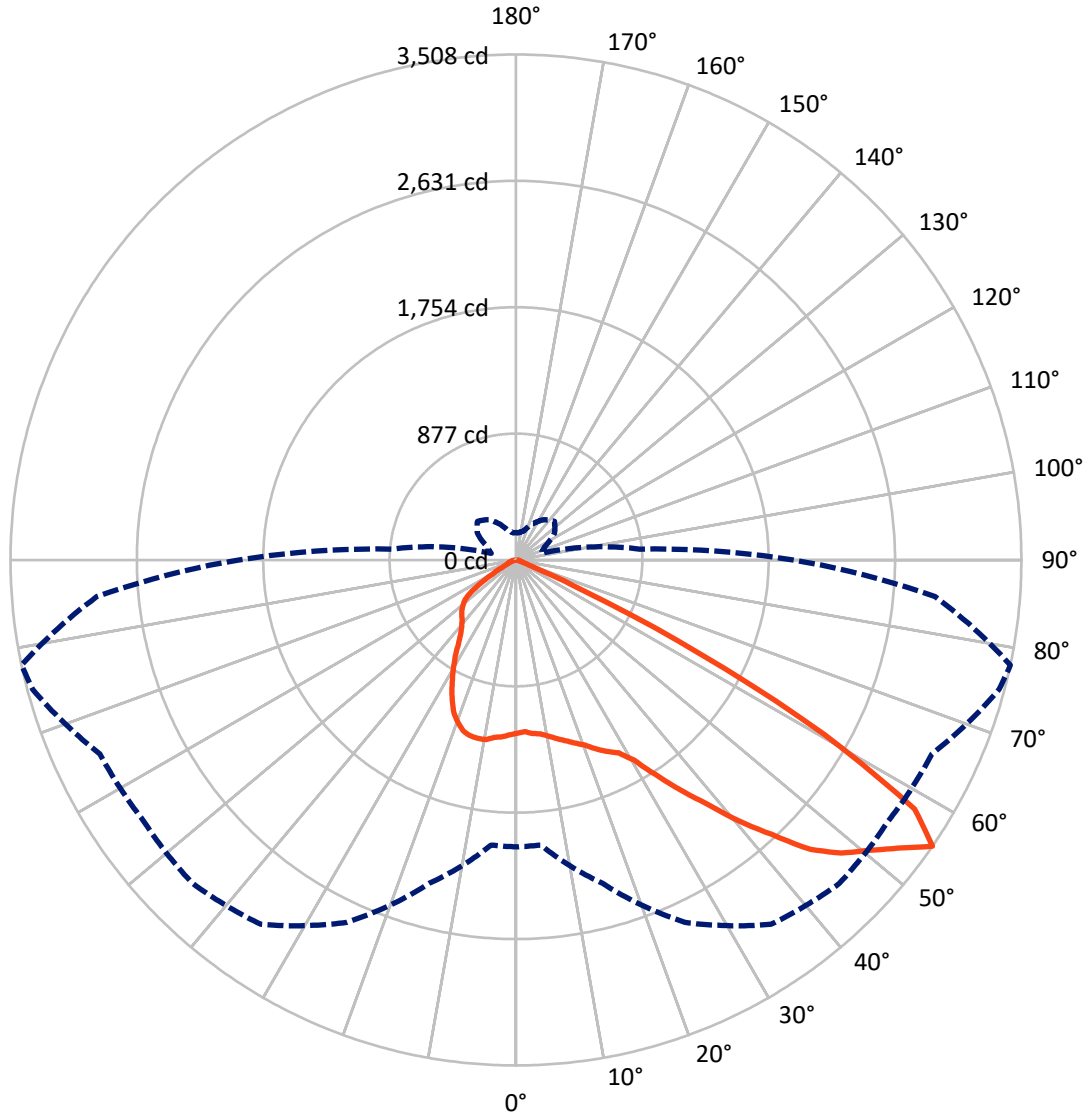
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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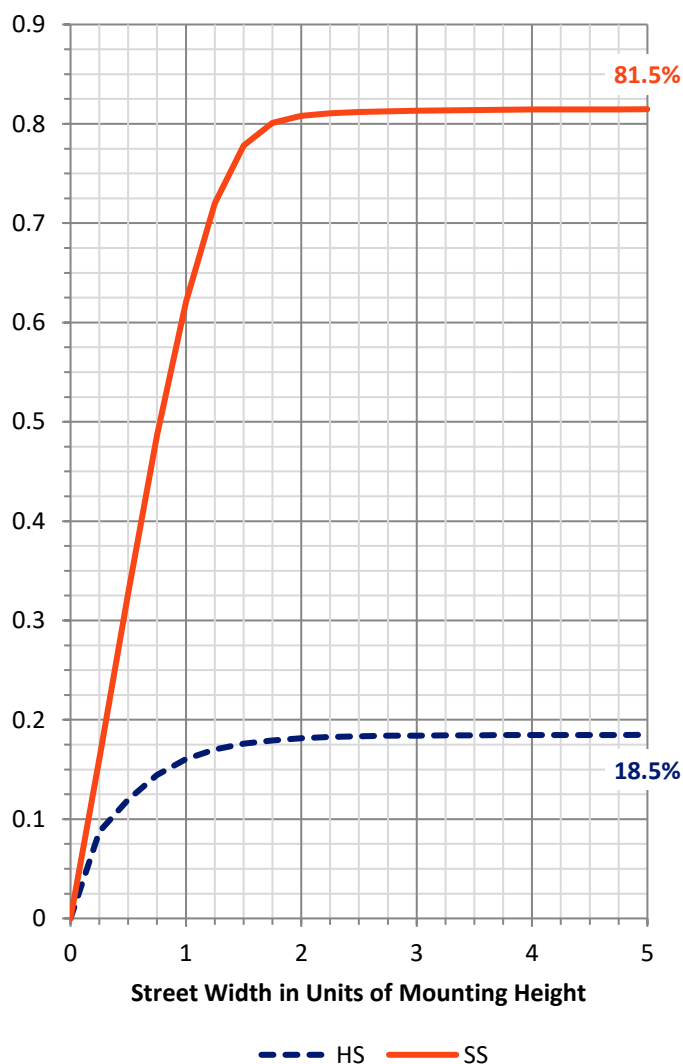
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	868.7	0.0	868.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	3808.3	0.0	3808.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	4677.0	0.0	4677.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	2.3
10°-20°	283.8	6.1
20°-30°	497.4	10.6
30°-40°	820.1	17.5
40°-50°	1193.4	25.5
50°-60°	1352.2	28.9
60°-70°	386.6	8.3
70°-80°	30.0	0.6
80°-90°	6.2	0.1
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°	4677.0	100.0
0°-180°	4677.0	100.0

**Coefficient of Utilization**



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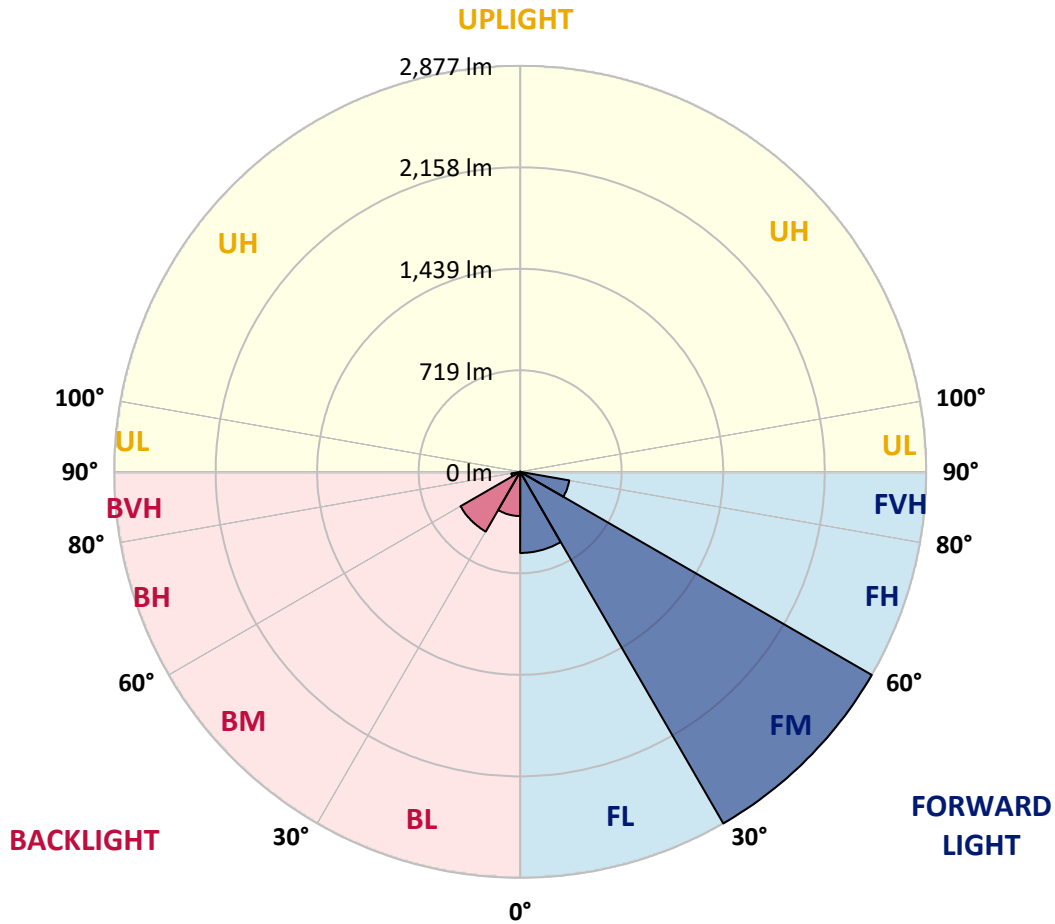
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.9	12.3			
FM (30°-60°)	2877.1	61.5			
FH (60°-80°)	353.2	7.6			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	313.4	6.7	B1/500		
BM (30°-60°)	488.7	10.4	B1/1000		
BH (60°-80°)	63.4	1.4	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5
2.5°	1130.5	1141.4	1143.1	1156.5	1155.6	1178.2	1184.9	1185.7	1200.8	1193.3	1212.5
5°	1098.8	1092.9	1090.4	1113.8	1120.5	1140.6	1157.3	1167.3	1198.3	1209.1	1229.2
7.5°	1070.3	1070.3	1072.0	1092.9	1090.4	1116.3	1133.9	1164.8	1210.0	1219.2	1243.4
10°	1042.7	1032.7	1045.3	1067.0	1085.4	1097.1	1133.9	1163.2	1215.8	1242.6	1276.0
12.5°	1028.5	1033.5	1035.2	1051.1	1071.2	1106.3	1126.4	1174.9	1257.6	1273.5	1309.5
15°	1118.0	1108.0	1083.7	1069.5	1086.2	1103.0	1153.1	1202.5	1279.4	1302.0	1342.1
17.5°	1221.7	1213.3	1193.3	1154.8	1117.2	1148.1	1187.4	1232.6	1302.8	1336.3	1395.6
20°	1357.2	1343.8	1323.7	1248.5	1215.8	1182.4	1224.2	1277.7	1341.3	1371.4	1432.4
22.5°	1518.5	1518.5	1473.4	1382.2	1314.5	1282.7	1300.3	1331.2	1383.9	1424.9	1485.1
25°	1686.6	1681.6	1640.6	1546.1	1431.6	1393.9	1414.0	1435.8	1450.0	1472.6	1512.7
27.5°	1878.9	1849.7	1797.8	1693.3	1592.1	1519.4	1541.1	1521.9	1504.3	1516.0	1573.7
30°	2009.4	2027.8	1961.7	1861.4	1766.1	1684.9	1689.1	1672.4	1592.1	1608.9	1643.1
32.5°	2144.9	2156.6	2119.8	2064.6	1969.3	1874.8	1840.5	1826.3	1766.1	1773.6	1740.1
35°	2257.7	2280.3	2247.7	2223.5	2195.9	2119.8	2025.3	2071.3	1974.3	1955.9	1868.9
37.5°	2361.4	2354.7	2393.2	2368.1	2362.3	2308.8	2205.1	2214.3	2149.0	2144.9	2044.5
40°	2454.3	2455.9	2508.6	2520.3	2496.9	2401.6	2251.1	2323.8	2376.5	2381.5	2252.7
42.5°	2531.2	2553.8	2598.9	2693.4	2658.3	2499.4	2298.7	2378.2	2573.8	2604.8	2450.1
45°	2598.1	2644.1	2700.1	2784.6	2764.5	2638.2	2417.5	2490.2	2784.6	2865.7	2635.7
47.5°	2602.3	2662.5	2723.5	2848.9	2874.0	2712.6	2540.4	2667.5	2951.8	3039.6	2771.2
50°	2585.5	2617.3	2739.4	2875.7	2932.6	2833.9	2712.6	2816.3	3114.0	3169.2	2839.7
52.5°	2387.4	2411.6	2656.6	2900.8	3037.9	2971.0	2940.9	3023.7	3279.6	3320.6	2904.1
55°	1990.2	1986.0	2323.0	2774.5	3086.4	3174.2	3155.8	3185.1	3471.1	3507.9	2920.0
57.5°	1361.3	1437.4	1728.4	2310.4	2789.6	3126.6	3145.8	3097.3	3247.8	3262.0	2545.4
60°	734.2	766.0	1000.1	1542.0	2124.0	2547.9	2598.1	2510.3	2498.6	2458.4	1817.1
62.5°	291.8	307.7	440.7	763.5	1157.3	1548.6	1656.5	1620.6	1543.6	1438.3	940.7
65°	138.8	148.8	219.1	357.1	513.4	645.5	753.4	786.9	580.3	522.6	310.2
67.5°	94.5	102.0	159.7	204.0	183.1	191.5	249.2	231.6	136.3	116.2	86.1
70°	71.9	76.9	127.9	138.8	81.9	57.7	64.4	60.2	56.0	56.9	56.0
72.5°	51.0	55.2	93.7	81.9	36.0	26.8	34.3	41.0	41.0	41.0	40.1
75°	30.9	35.1	54.4	31.8	14.2	14.2	21.7	27.6	29.3	30.1	28.4
77.5°	15.9	20.1	18.4	9.2	9.2	10.9	15.9	19.2	20.9	20.9	20.1
80°	3.3	3.3	3.3	5.0	9.2	11.7	15.9	17.6	20.1	20.1	18.4
82.5°	0.0	0.8	2.5	5.0	8.4	10.9	15.1	17.6	20.1	20.9	19.2
85°	0.0	0.8	1.7	3.3	5.9	6.7	5.9	5.0	5.0	5.0	5.0
87.5°	0.0	0.0	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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°	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5
2.5°	1214.2	1216.7	1212.5	1211.7	1208.3	1218.3	1194.1	1188.2	1203.3	1189.1	1192.4
5°	1230.1	1235.9	1228.4	1215.8	1197.4	1169.0	1144.8	1113.0	1097.9	1087.1	1085.4
7.5°	1241.8	1245.9	1238.4	1198.3	1143.1	1071.2	1017.7	978.4	947.4	938.2	923.2
10°	1289.4	1290.3	1252.6	1164.0	1056.1	961.6	879.7	819.5	788.5	769.3	760.9
12.5°	1321.2	1319.5	1243.4	1096.3	952.4	827.0	733.3	660.6	632.2	623.0	617.1
15°	1361.3	1352.1	1221.7	1026.9	818.6	683.2	598.7	548.5	546.0	540.2	546.0
17.5°	1393.1	1367.2	1189.9	900.6	690.7	562.8	507.6	510.9	517.6	523.5	524.3
20°	1445.0	1391.4	1117.2	790.2	572.0	482.5	481.7	496.7	513.4	520.1	526.8
22.5°	1484.3	1401.5	1039.4	672.3	475.0	449.9	464.1	486.7	499.2	505.9	515.9
25°	1498.5	1373.9	935.7	554.4	428.1	434.8	456.6	471.6	487.5	495.0	490.9
27.5°	1512.7	1359.7	812.0	456.6	403.0	424.8	443.2	458.2	463.3	473.3	480.0
30°	1547.0	1310.3	700.7	394.7	390.5	418.1	431.5	436.5	449.9	455.7	455.7
32.5°	1574.6	1291.1	582.8	365.4	388.8	421.4	423.1	423.1	424.8	420.6	418.9
35°	1631.4	1225.0	477.5	347.9	388.0	422.3	426.5	412.2	373.8	358.7	354.5
37.5°	1701.7	1182.4	399.7	343.7	393.9	432.3	439.0	385.5	335.3	311.1	306.9
40°	1787.0	1152.3	348.7	342.0	407.2	455.7	435.7	364.6	299.4	264.2	262.6
42.5°	1886.5	1124.7	314.4	341.2	424.0	480.0	432.3	347.0	262.6	239.2	242.5
45°	1965.9	1109.6	291.0	335.3	429.8	494.2	434.8	316.1	247.5	232.5	234.1
47.5°	2027.8	1077.9	271.8	325.3	429.0	499.2	412.2	303.5	240.0	244.2	248.4
50°	2029.5	1035.2	247.5	303.5	416.4	490.0	386.3	291.8	238.3	255.9	264.2
52.5°	2006.9	975.0	221.6	272.6	387.2	458.2	362.9	286.8	230.8	229.1	239.2
55°	1926.6	862.1	178.1	220.8	327.0	378.0	342.0	277.6	208.2	189.0	190.7
57.5°	1557.0	618.0	131.3	158.0	231.6	276.8	308.6	273.4	187.3	160.6	161.4
60°	964.1	350.4	96.2	107.9	143.0	168.1	250.0	254.2	167.2	135.5	133.8
62.5°	495.0	173.1	74.4	76.1	87.8	98.7	171.4	213.2	151.4	128.8	128.8
65°	165.6	85.3	65.2	58.5	58.5	61.0	103.7	148.0	127.9	107.9	107.9
67.5°	71.1	63.6	56.9	51.0	46.8	44.3	58.5	86.1	95.3	81.9	78.6
70°	55.2	53.5	49.3	42.6	36.8	33.4	34.3	44.3	54.4	52.7	51.0
72.5°	41.0	41.0	39.3	33.4	28.4	24.2	22.6	23.4	25.9	26.8	27.6
75°	28.4	29.3	29.3	25.9	20.9	17.6	15.1	12.5	10.0	8.4	7.5
77.5°	19.2	20.1	21.7	19.2	15.9	11.7	9.2	6.7	4.2	1.7	1.7
80°	16.7	19.2	20.9	19.2	16.7	12.5	9.2	5.0	2.5	0.0	0.0
82.5°	17.6	19.2	21.7	18.4	15.9	11.7	9.2	5.9	2.5	0.8	0.0
85°	4.2	4.2	5.0	5.9	7.5	8.4	6.7	4.2	2.5	0.8	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	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)