

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: P526290

Luminaire Tested: **GALN-SA1B-727-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526290  
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-SA1B-727-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH  
WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4039 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

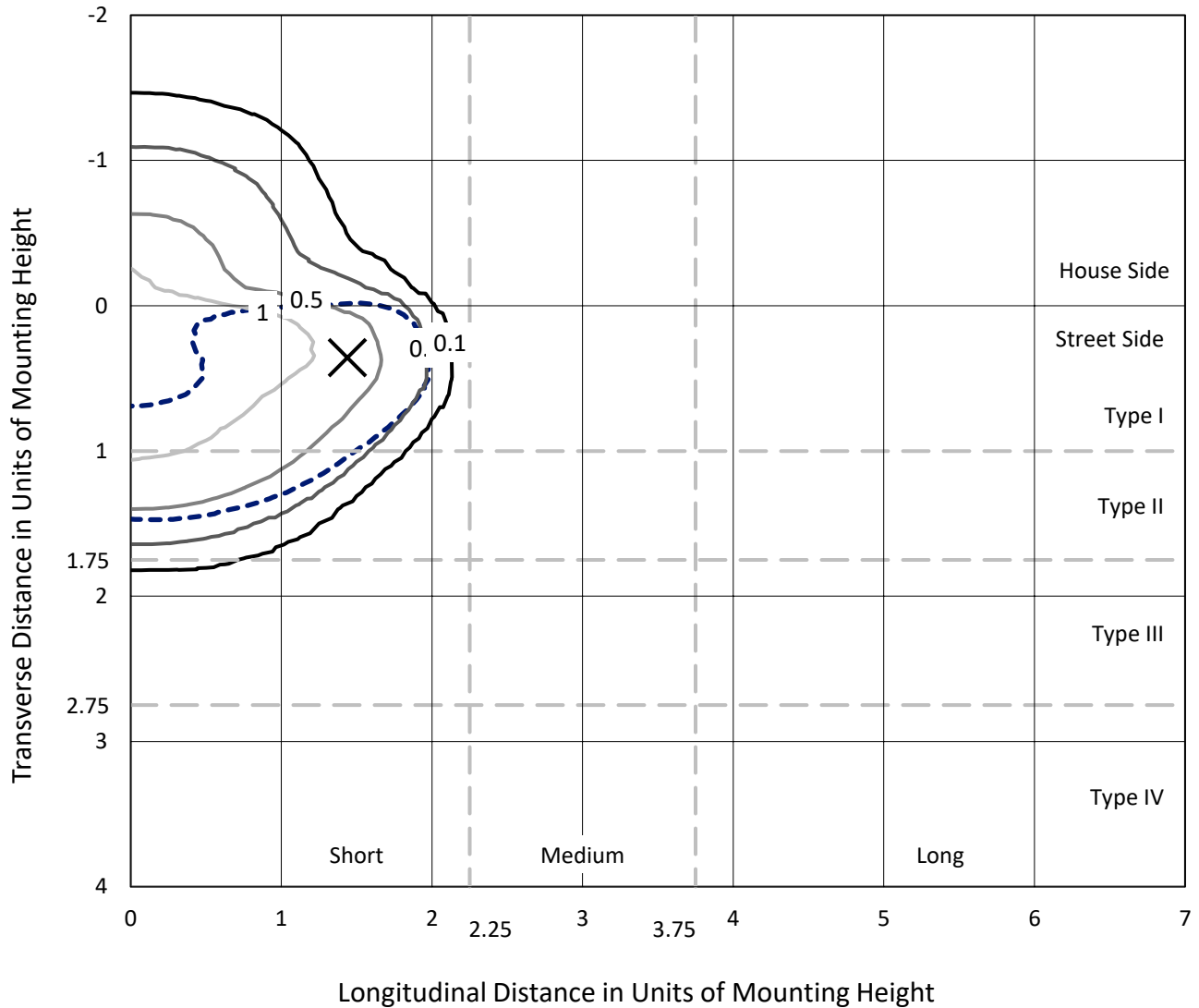
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA1B-727-U-T2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

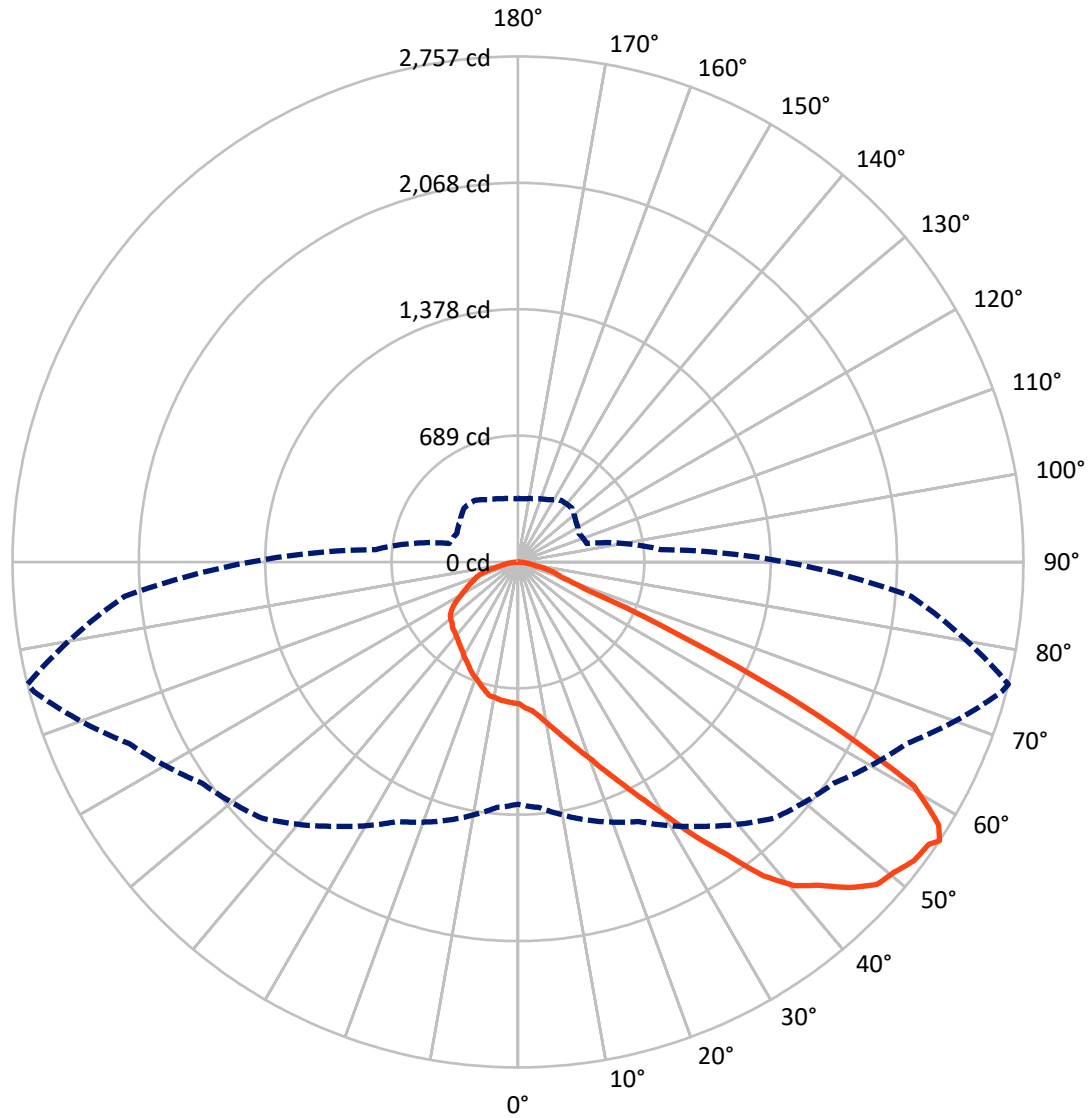
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P526290  
CATALOG NUMBER: GALN-SA1B-727-U-T2-GRSWH

### Luminous Intensity Polar Plot



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

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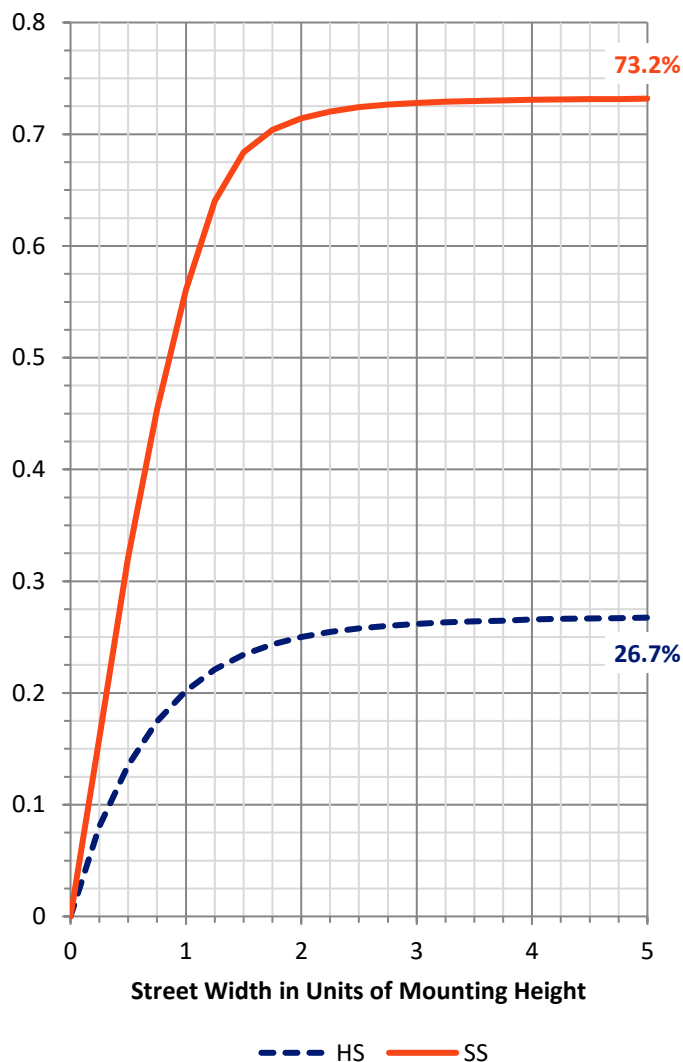
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1086.0	0.0	1086.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	2953.0	0.0	2953.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	4039.0	0.0	4039.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	1.9
10°-20°	240.7	6.0
20°-30°	421.0	10.4
30°-40°	659.2	16.3
40°-50°	959.0	23.7
50°-60°	1054.0	26.1
60°-70°	470.5	11.6
70°-80°	135.9	3.4
80°-90°	22.0	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°	4039.0	100.0
0°-180°	4039.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P526290

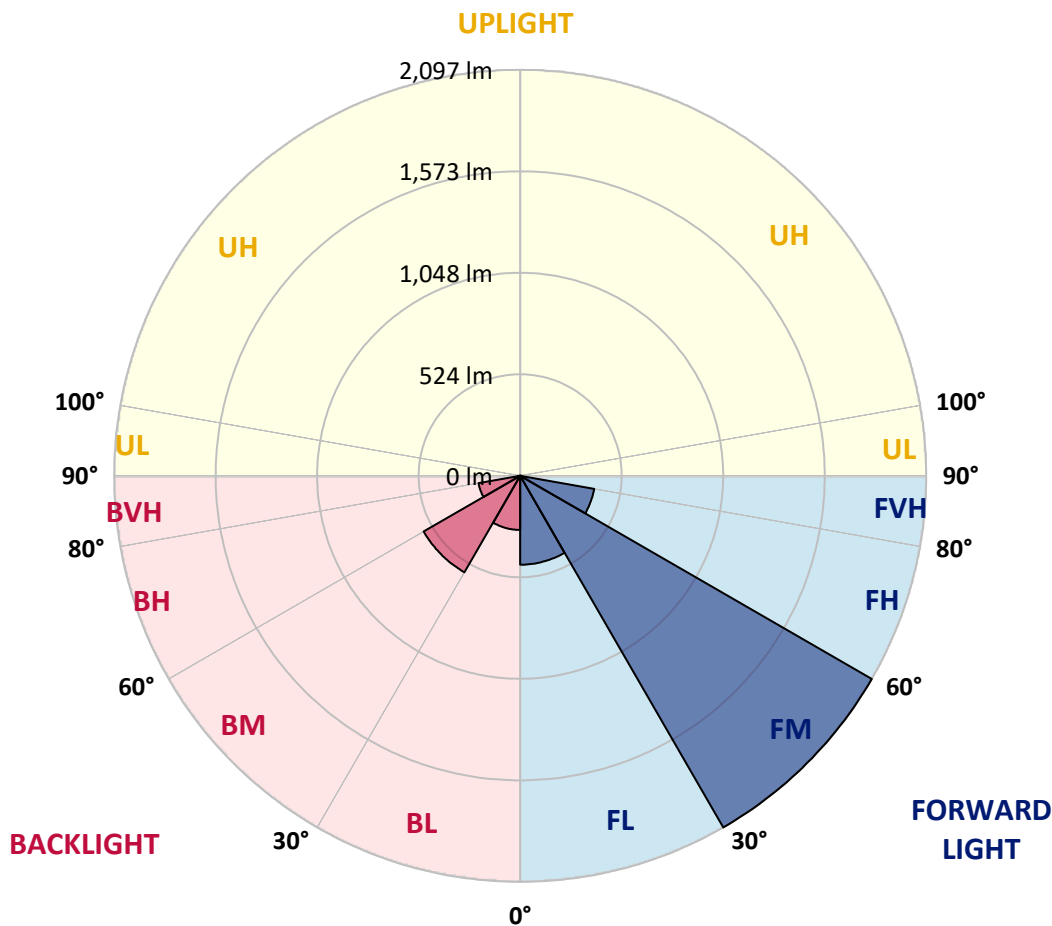
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.0	11.4			
FM (30°-60°)	2096.7	51.9			
FH (60°-80°)	387.8	9.6			G0/660
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	279.4	6.9	B1/500		
BM (30°-60°)	575.5	14.2	B1/1000		
BH (60°-80°)	218.5	5.4	B1/500		G1/500
BVH (80°-90°)	12.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8
2.5°	851.3	837.7	836.7	833.0	835.1	825.7	815.7	802.7	789.0	797.4	777.5
5°	911.0	892.7	900.0	887.5	889.0	876.5	856.1	840.9	824.1	814.2	800.0
7.5°	932.0	933.6	938.8	936.7	926.2	926.2	912.6	885.9	856.6	850.8	827.3
10°	960.3	960.8	955.0	956.6	971.2	964.4	952.4	940.9	903.2	896.4	854.5
12.5°	970.2	960.8	970.2	978.6	995.9	1005.3	1002.7	994.3	954.0	949.3	888.0
15°	971.8	966.0	973.9	992.7	1007.9	1047.7	1067.6	1061.8	1008.4	1008.9	925.7
17.5°	964.4	972.3	975.4	991.7	1026.7	1063.9	1121.5	1129.4	1085.4	1078.6	973.3
20°	974.4	968.6	972.8	987.5	1034.1	1092.2	1167.6	1219.4	1157.6	1152.9	1022.6
22.5°	1012.6	1004.8	1003.7	1013.1	1046.6	1106.9	1216.3	1309.5	1245.6	1248.2	1083.8
25°	1042.5	1046.6	1043.0	1042.5	1063.4	1128.8	1280.7	1416.8	1365.0	1349.8	1156.1
27.5°	1093.8	1103.7	1096.4	1106.3	1101.6	1161.8	1326.8	1535.7	1493.8	1473.4	1221.5
30°	1165.0	1170.2	1163.4	1163.4	1149.3	1207.9	1368.7	1659.8	1642.5	1614.7	1298.5
32.5°	1258.7	1266.6	1252.9	1245.1	1243.0	1276.5	1444.0	1782.3	1811.6	1788.0	1400.6
35°	1382.8	1378.1	1361.8	1354.5	1326.2	1381.7	1556.1	1923.1	2000.1	1958.2	1524.2
37.5°	1492.2	1484.9	1483.8	1443.0	1449.8	1495.4	1651.4	2029.9	2182.8	2170.8	1654.5
40°	1594.3	1601.1	1612.1	1589.1	1578.6	1628.9	1762.4	2111.6	2324.7	2320.0	1755.1
42.5°	1703.7	1697.5	1716.8	1697.5	1681.8	1753.0	1882.8	2168.2	2449.3	2410.6	1860.3
45°	1862.4	1842.5	1849.3	1850.9	1839.4	1865.5	1932.6	2209.0	2536.8	2532.6	1937.3
47.5°	1994.9	1995.4	1983.9	1975.0	1939.9	1966.1	1988.1	2234.7	2637.3	2630.5	1967.1
50°	2044.1	2037.3	2070.8	2090.1	2092.2	2038.8	2031.5	2248.8	2690.2	2660.3	1997.0
52.5°	1867.1	1873.4	1926.3	2041.5	2108.0	2113.7	2082.3	2278.1	2711.6	2705.4	2021.0
55°	1502.7	1533.1	1620.0	1753.0	1910.6	2083.9	2137.3	2308.5	2723.2	2717.9	2127.8
56°	1321.0	1344.6	1457.7	1561.9	1759.8	1975.5	2102.7	2340.9	2732.1	2756.7	2153.0
57.5°	1063.4	1090.6	1171.8	1290.1	1523.6	1769.2	2007.4	2301.2	2697.5	2706.9	2171.3
60°	665.0	667.6	765.0	843.0	1007.4	1247.2	1532.0	2002.2	2496.5	2482.8	1950.4
62.5°	436.1	436.7	525.2	589.0	663.9	718.9	901.6	1327.8	1842.0	1817.9	1388.5
65°	306.3	313.1	381.7	467.0	497.4	468.6	462.8	700.0	1028.8	994.3	746.1
67.5°	224.1	224.6	285.4	377.0	421.0	356.6	289.5	341.9	407.3	406.3	345.6
70°	148.2	154.5	201.1	281.7	332.0	286.4	236.7	244.5	259.2	259.2	257.1
72.5°	86.4	92.2	123.0	178.5	186.4	179.1	187.4	209.4	218.9	218.3	215.7
75°	49.2	51.8	58.6	74.3	92.7	109.4	137.7	158.6	168.1	173.8	167.0
77.5°	28.8	30.4	34.6	42.4	48.2	59.2	74.9	89.5	102.1	100.5	101.6
80°	15.2	15.2	19.4	25.1	33.5	41.9	49.7	58.1	64.9	66.5	68.1
82.5°	8.9	9.4	12.6	18.3	24.1	29.8	38.2	44.0	50.3	50.8	51.8
85°	4.7	5.2	7.9	12.0	16.2	18.3	18.8	17.8	19.4	18.3	20.9
87.5°	1.6	1.6	2.6	2.1	2.1	2.6	3.1	3.1	4.2	4.2	4.2
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: P526290

CATALOG NUMBER: GALN-SA1B-727-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8
2.5°	777.0	777.0	768.1	751.3	748.7	741.9	735.6	735.1	730.4	726.2	724.1
5°	791.7	775.4	762.3	747.2	729.4	721.0	711.6	701.1	696.9	701.1	700.6
7.5°	808.4	794.8	755.5	727.3	706.8	698.5	688.0	677.0	678.0	678.0	670.7
10°	824.6	806.3	743.5	707.4	677.5	671.2	665.5	669.7	674.9	675.9	671.2
12.5°	851.9	810.5	737.7	687.5	668.6	655.0	658.7	670.2	681.2	678.0	681.7
15°	872.3	814.2	711.6	667.0	643.5	649.8	662.9	670.7	689.0	686.9	690.6
17.5°	892.2	816.3	685.9	639.8	629.9	647.2	657.1	679.6	685.4	697.9	702.7
20°	933.0	820.5	659.7	623.1	619.9	639.8	657.1	667.6	680.1	691.1	691.1
22.5°	954.0	818.4	642.4	601.1	611.0	623.6	639.3	657.1	657.1	667.6	668.1
25°	980.2	810.0	615.2	590.6	597.9	610.0	627.8	621.5	628.3	628.3	636.7
27.5°	1010.0	792.2	591.7	571.8	586.4	599.5	602.1	597.9	590.1	589.0	585.9
30°	1034.1	770.2	574.4	565.5	577.5	584.8	576.5	567.6	554.0	552.9	545.6
32.5°	1067.1	743.0	552.9	549.8	563.4	563.9	561.3	547.7	527.8	519.4	511.0
35°	1122.6	727.3	536.7	541.4	545.6	544.0	539.3	524.6	504.7	501.1	497.9
37.5°	1163.4	715.7	519.9	525.7	529.3	531.4	517.3	501.1	501.6	494.3	492.2
40°	1209.5	708.4	506.3	508.9	509.4	516.3	499.0	491.1	494.8	490.1	493.2
42.5°	1268.6	710.5	492.2	490.1	500.0	497.4	489.0	478.6	480.7	466.5	468.6
45°	1300.1	724.6	483.8	474.4	485.4	484.8	473.8	463.9	451.3	424.1	425.2
47.5°	1321.0	728.3	463.9	457.6	469.1	475.9	463.4	440.3	422.5	403.2	398.4
50°	1342.5	735.1	454.5	441.4	446.1	462.3	446.6	424.6	407.3	390.1	392.7
52.5°	1361.3	748.2	436.1	416.8	425.2	443.0	434.6	407.9	389.0	374.9	370.7
55°	1445.1	777.5	405.3	380.1	400.0	422.5	417.8	385.4	364.9	357.6	356.6
56°	1458.2	778.6	389.0	367.6	385.9	415.7	410.0	375.4	357.1	345.6	346.1
57.5°	1460.3	766.0	366.0	356.0	371.7	405.8	398.4	367.6	342.4	332.0	328.8
60°	1284.9	597.9	337.2	330.9	349.2	375.4	372.8	346.1	317.8	305.8	311.5
62.5°	876.0	438.2	314.7	313.6	323.1	348.7	341.9	317.8	294.3	286.4	282.7
65°	510.0	332.5	292.7	288.5	296.3	310.0	314.7	289.5	264.9	259.7	258.1
67.5°	301.1	274.9	264.4	257.6	255.0	263.4	267.0	252.4	227.8	220.4	226.7
70°	251.8	244.5	245.0	233.5	227.2	221.5	218.3	205.2	184.8	175.4	172.8
72.5°	217.3	214.1	212.1	201.6	195.8	182.7	169.1	156.0	140.8	133.0	133.5
75°	166.0	164.9	166.0	160.7	150.8	140.3	127.8	111.0	99.5	89.5	91.6
77.5°	99.0	102.1	103.7	101.6	97.4	88.0	80.1	69.1	58.1	50.3	49.2
80°	68.1	70.7	73.3	70.7	66.5	59.7	51.3	42.9	35.1	30.9	29.8
82.5°	51.8	54.5	56.0	53.4	48.2	40.8	35.1	29.3	23.0	18.8	17.8
85°	18.8	21.5	20.9	25.1	27.2	26.2	22.5	17.3	13.1	9.4	8.9
87.5°	5.2	4.7	5.2	5.2	5.2	4.7	4.2	4.2	4.2	2.6	2.1
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)