

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: P526992

Luminaire Tested: **GALN-SA2A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526992  
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-SA2A-727-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA 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: 6451 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

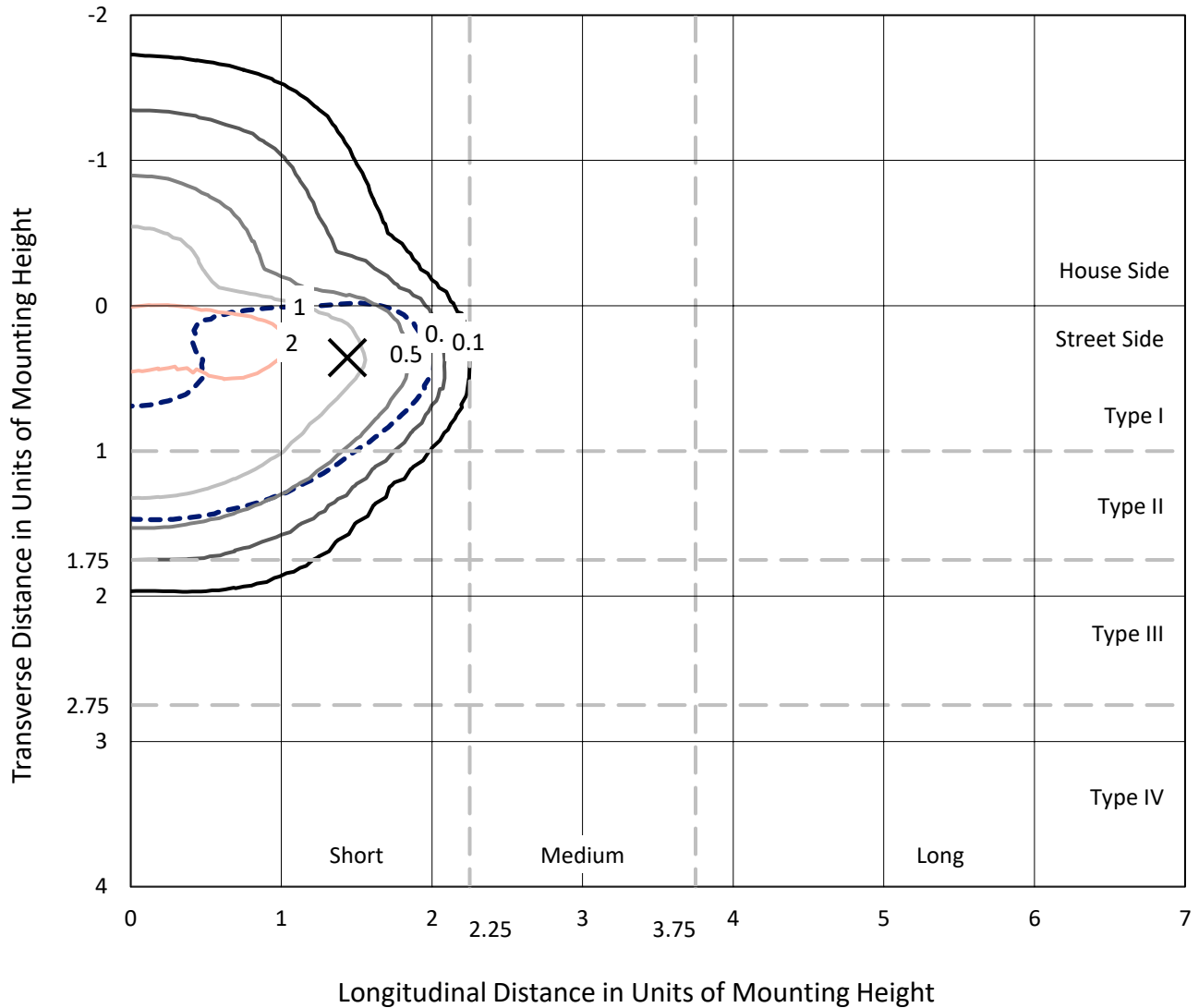
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

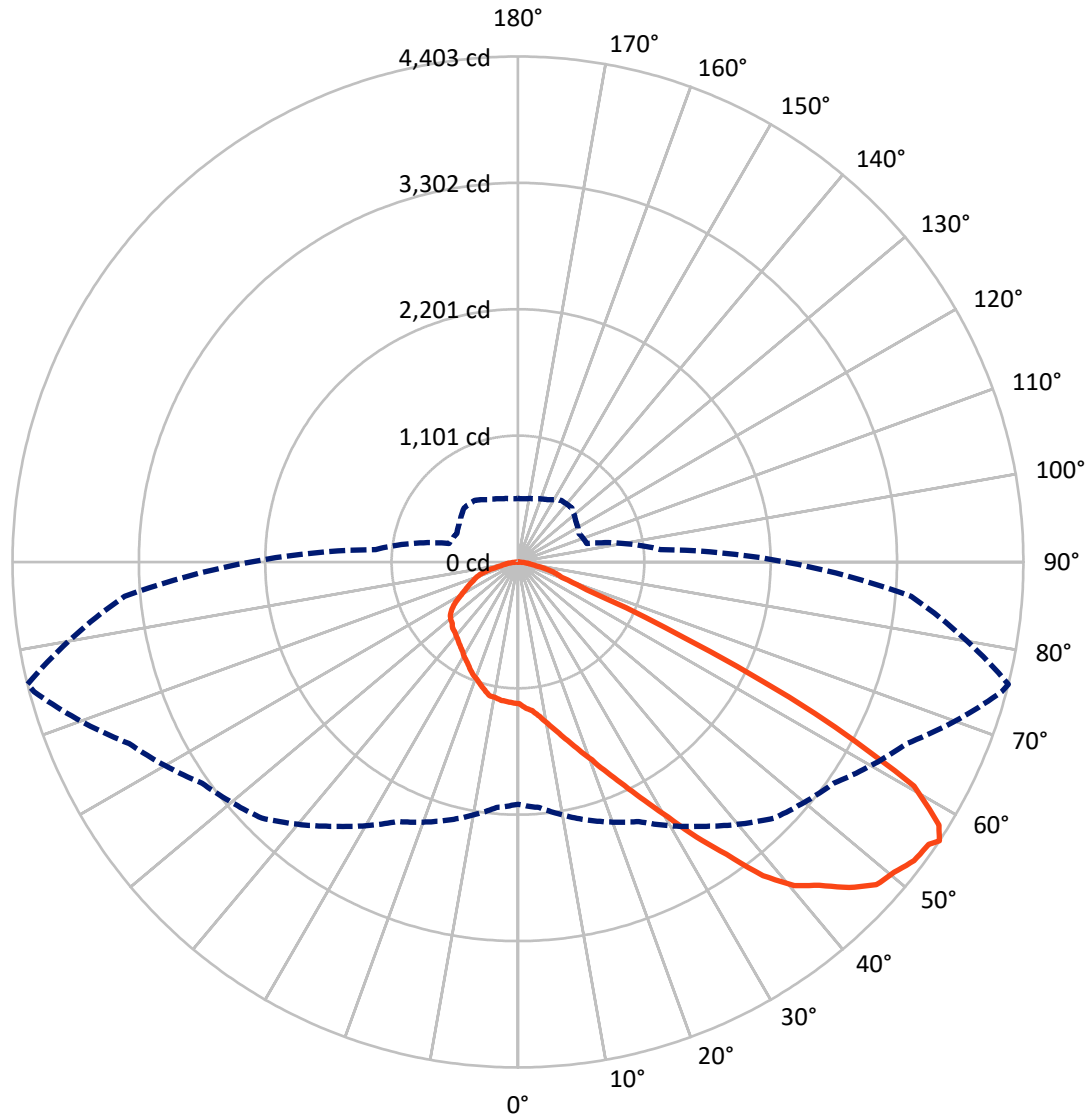
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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



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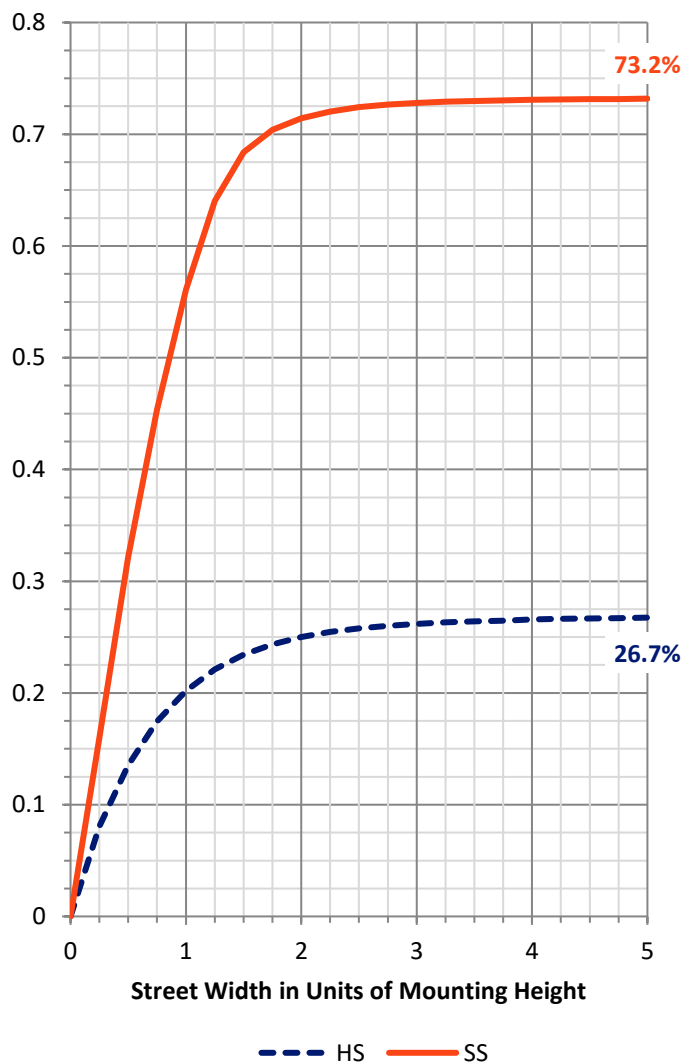
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1734.5	0.0	1734.5
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	4716.5	0.0	4716.5
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	6451.0	0.0	6451.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.4	1.9
10°-20°	384.5	6.0
20°-30°	672.5	10.4
30°-40°	1052.9	16.3
40°-50°	1531.7	23.7
50°-60°	1683.4	26.1
60°-70°	751.4	11.6
70°-80°	217.0	3.4
80°-90°	35.2	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°	6451.0	100.0
0°-180°	6451.0	100.0



REPORT NUMBER: P526992

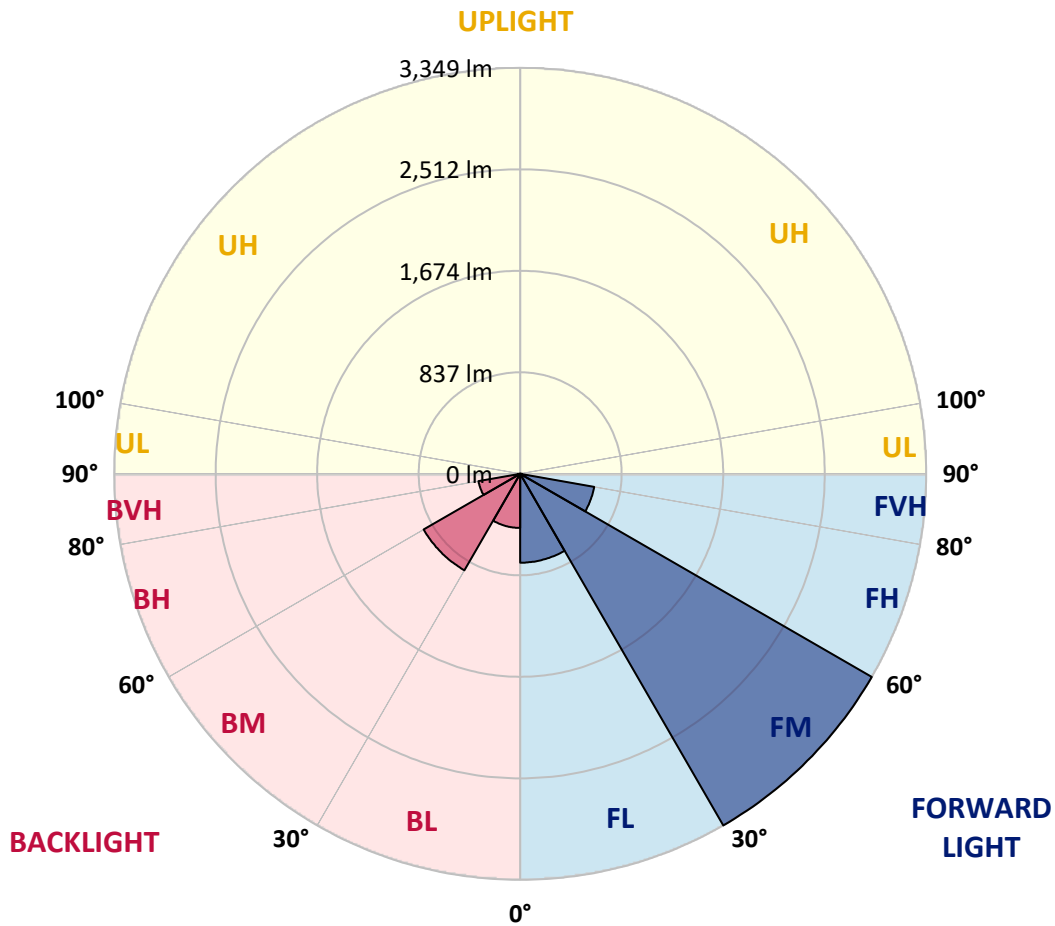
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.1	11.4			
FM (30°-60°)	3348.8	51.9			
FH (60°-80°)	619.4	9.6			G0/660
FVH (80°-90°)	15.2	0.2			G1/100
BL (0°-30°)	446.3	6.9	B1/500		
BM (30°-60°)	919.1	14.2	B1/1000		
BH (60°-80°)	349.0	5.4	B1/500		G1/500
BVH (80°-90°)	20.1	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°	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3
2.5°	1359.8	1338.0	1336.3	1330.5	1333.8	1318.8	1302.9	1282.0	1260.2	1273.6	1241.8
5°	1455.1	1425.8	1437.5	1417.5	1420.0	1399.9	1367.3	1343.0	1316.3	1300.4	1277.8
7.5°	1488.5	1491.0	1499.4	1496.1	1479.3	1479.3	1457.6	1414.9	1368.1	1358.9	1321.3
10°	1533.7	1534.5	1525.3	1527.8	1551.3	1540.4	1521.2	1502.8	1442.5	1431.7	1364.8
12.5°	1549.6	1534.5	1549.6	1563.0	1590.6	1605.6	1601.4	1588.1	1523.7	1516.1	1418.3
15°	1552.1	1542.9	1555.4	1585.5	1609.8	1673.4	1705.1	1695.9	1610.6	1611.5	1478.5
17.5°	1540.4	1552.9	1557.9	1583.9	1639.9	1699.3	1791.3	1803.8	1733.6	1722.7	1554.6
20°	1556.3	1547.1	1553.8	1577.2	1651.6	1744.4	1864.9	1947.6	1849.0	1841.4	1633.2
22.5°	1617.3	1604.8	1603.1	1618.2	1671.7	1767.8	1942.6	2091.5	1989.5	1993.6	1731.1
25°	1665.0	1671.7	1665.8	1665.0	1698.4	1803.0	2045.5	2262.9	2180.1	2155.9	1846.5
27.5°	1746.9	1762.8	1751.1	1767.0	1759.5	1855.7	2119.1	2452.7	2385.8	2353.2	1951.0
30°	1860.7	1869.0	1858.2	1858.2	1835.6	1929.2	2186.0	2650.9	2623.3	2579.0	2073.9
32.5°	2010.4	2022.9	2001.2	1988.6	1985.3	2038.8	2306.4	2846.6	2893.5	2855.8	2237.0
35°	2208.6	2201.0	2175.1	2163.4	2118.2	2206.9	2485.4	3071.6	3194.5	3127.6	2434.3
37.5°	2383.3	2371.6	2370.0	2304.7	2315.6	2388.4	2637.6	3242.2	3486.4	3467.1	2642.6
40°	2546.4	2557.3	2574.8	2538.0	2521.3	2601.6	2814.8	3372.6	3713.0	3705.5	2803.1
42.5°	2721.2	2711.1	2742.1	2711.1	2686.1	2799.8	3007.2	3462.9	3912.0	3850.1	2971.2
45°	2974.6	2942.8	2953.7	2956.2	2937.8	2979.6	3086.6	3528.2	4051.7	4045.0	3094.2
47.5°	3186.1	3187.0	3168.6	3154.4	3098.3	3140.1	3175.3	3569.1	4212.2	4201.4	3141.8
50°	3264.7	3253.9	3307.4	3338.3	3341.7	3256.4	3244.7	3591.7	4296.7	4249.0	3189.5
52.5°	2982.1	2992.1	3076.6	3260.6	3366.8	3376.0	3325.8	3638.6	4331.0	4320.9	3228.0
55°	2400.1	2448.6	2587.4	2799.8	3051.5	3328.3	3413.6	3687.1	4349.4	4341.0	3398.6
56°	2109.9	2147.5	2328.1	2494.6	2810.7	3155.2	3358.4	3738.9	4363.6	4402.9	3438.7
57.5°	1698.4	1741.9	1871.5	2060.5	2433.5	2825.7	3206.2	3675.4	4308.4	4323.5	3468.0
60°	1062.0	1066.2	1221.8	1346.4	1609.0	1992.0	2446.9	3197.8	3987.3	3965.5	3115.1
62.5°	696.6	697.4	838.8	940.8	1060.4	1148.2	1440.0	2120.7	2942.0	2903.5	2217.8
65°	489.2	500.1	609.6	745.9	794.4	748.5	739.3	1118.1	1643.2	1588.1	1191.7
67.5°	357.9	358.8	455.8	602.1	672.4	569.5	462.5	546.1	650.6	648.9	551.9
70°	236.7	246.7	321.1	449.9	530.2	457.4	378.0	390.5	413.9	413.9	410.6
72.5°	138.0	147.2	196.5	285.2	297.7	286.0	299.4	334.5	349.6	348.7	344.5
75°	78.6	82.8	93.7	118.7	148.0	174.8	219.9	253.4	268.4	277.6	266.8
77.5°	46.0	48.5	55.2	67.7	76.9	94.5	119.6	143.0	163.1	160.6	162.2
80°	24.3	24.3	30.9	40.1	53.5	66.9	79.4	92.8	103.7	106.2	108.7
82.5°	14.2	15.1	20.1	29.3	38.5	47.7	61.0	70.2	80.3	81.1	82.8
85°	7.5	8.4	12.5	19.2	25.9	29.3	30.1	28.4	30.9	29.3	33.5
87.5°	2.5	2.5	4.2	3.3	3.3	4.2	5.0	5.0	6.7	6.7	6.7
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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CATALOG NUMBER: GALN-SA2A-727-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3
2.5°	1241.0	1241.0	1226.8	1200.0	1195.8	1185.0	1174.9	1174.1	1166.6	1159.9	1156.5
5°	1264.4	1238.5	1217.6	1193.3	1164.9	1151.5	1136.5	1119.7	1113.1	1119.7	1118.9
7.5°	1291.2	1269.4	1206.7	1161.6	1128.9	1115.6	1098.8	1081.3	1083.0	1083.0	1071.2
10°	1317.1	1287.8	1187.5	1129.8	1082.1	1072.1	1062.9	1069.6	1077.9	1079.6	1072.1
12.5°	1360.6	1294.5	1178.3	1098.0	1067.9	1046.2	1052.0	1070.4	1088.0	1083.0	1088.8
15°	1393.2	1300.4	1136.5	1065.4	1027.8	1037.8	1058.7	1071.2	1100.5	1097.2	1103.0
17.5°	1425.0	1303.7	1095.5	1021.9	1006.0	1033.6	1049.5	1085.5	1094.7	1114.7	1122.3
20°	1490.2	1310.4	1053.7	995.1	990.1	1021.9	1049.5	1066.2	1086.3	1103.9	1103.9
22.5°	1523.7	1307.1	1026.1	960.0	975.9	996.0	1021.1	1049.5	1049.5	1066.2	1067.1
25°	1565.5	1293.7	982.6	943.3	955.0	974.2	1002.7	992.6	1003.5	1003.5	1016.9
27.5°	1613.1	1265.3	945.0	913.2	936.6	957.5	961.7	955.0	942.5	940.8	935.8
30°	1651.6	1230.1	917.4	903.2	922.4	934.1	920.7	906.5	884.8	883.1	871.4
32.5°	1704.3	1186.6	883.1	878.1	899.8	900.6	896.5	874.7	842.9	829.6	816.2
35°	1792.9	1161.6	857.2	864.7	871.4	868.9	861.3	837.9	806.2	800.3	795.3
37.5°	1858.2	1143.2	830.4	839.6	845.5	848.8	826.2	800.3	801.1	789.4	786.1
40°	1931.8	1131.5	808.7	812.8	813.7	824.5	797.0	784.4	790.3	782.7	787.8
42.5°	2026.3	1134.8	786.1	782.7	798.6	794.4	781.1	764.3	767.7	745.1	748.5
45°	2076.4	1157.4	772.7	757.6	775.2	774.4	756.8	740.9	720.9	677.4	679.0
47.5°	2109.9	1163.2	740.9	730.9	749.3	760.2	740.1	703.3	674.9	643.9	636.4
50°	2144.2	1174.1	725.9	705.0	712.5	738.4	713.3	678.2	650.6	623.0	627.2
52.5°	2174.3	1195.0	696.6	665.7	679.0	707.5	694.1	651.4	621.3	598.8	592.1
55°	2308.1	1241.8	647.3	607.1	638.9	674.9	667.3	615.5	582.9	571.2	569.5
56°	2329.0	1243.5	621.3	587.1	616.3	664.0	654.8	599.6	570.3	551.9	552.8
57.5°	2332.3	1223.4	584.5	568.7	593.7	648.1	636.4	587.1	546.9	530.2	525.2
60°	2052.2	955.0	538.5	528.5	557.8	599.6	595.4	552.8	507.6	488.4	497.6
62.5°	1399.1	699.9	502.6	500.9	516.0	556.9	546.1	507.6	470.0	457.4	451.6
65°	814.5	531.0	467.5	460.8	473.3	495.1	502.6	462.5	423.1	414.8	412.3
67.5°	480.8	439.0	422.3	411.4	407.3	420.6	426.5	403.1	363.8	352.1	362.1
70°	402.2	390.5	391.4	373.0	362.9	353.7	348.7	327.8	295.2	280.1	276.0
72.5°	347.0	342.0	338.7	322.0	312.8	291.9	270.1	249.2	225.0	212.4	213.2
75°	265.1	263.4	265.1	256.7	240.8	224.1	204.0	177.3	158.9	143.0	146.3
77.5°	158.1	163.1	165.6	162.2	155.5	140.5	127.9	110.4	92.8	80.3	78.6
80°	108.7	112.9	117.1	112.9	106.2	95.3	82.0	68.6	56.0	49.3	47.7
82.5°	82.8	87.0	89.5	85.3	76.9	65.2	56.0	46.8	36.8	30.1	28.4
85°	30.1	34.3	33.5	40.1	43.5	41.8	36.0	27.6	20.9	15.1	14.2
87.5°	8.4	7.5	8.4	8.4	8.4	7.5	6.7	6.7	6.7	4.2	3.3
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)