

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: P527070

Luminaire Tested: **GALN-SA2A-740-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527070  
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-740-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 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: 7714 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

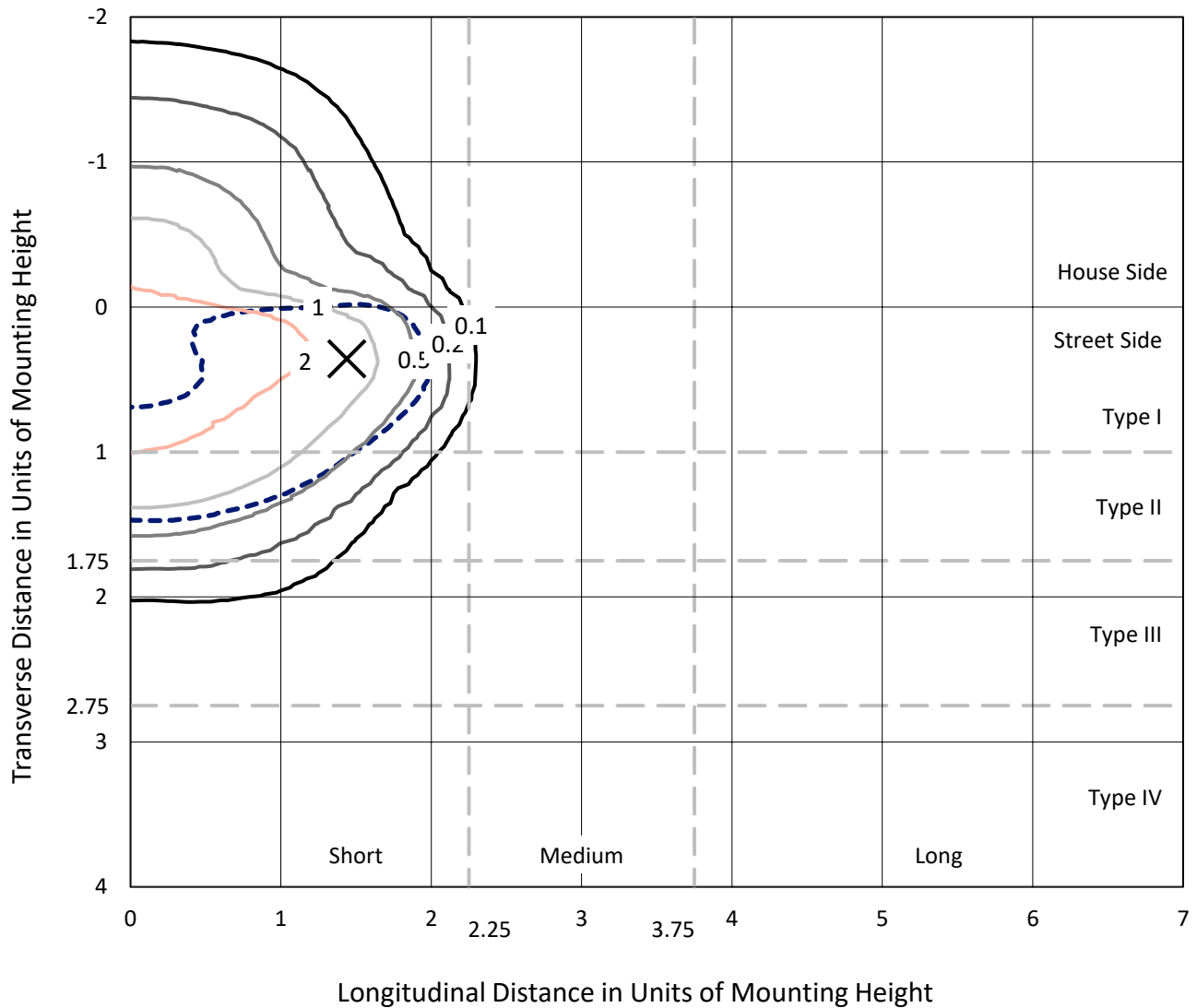
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

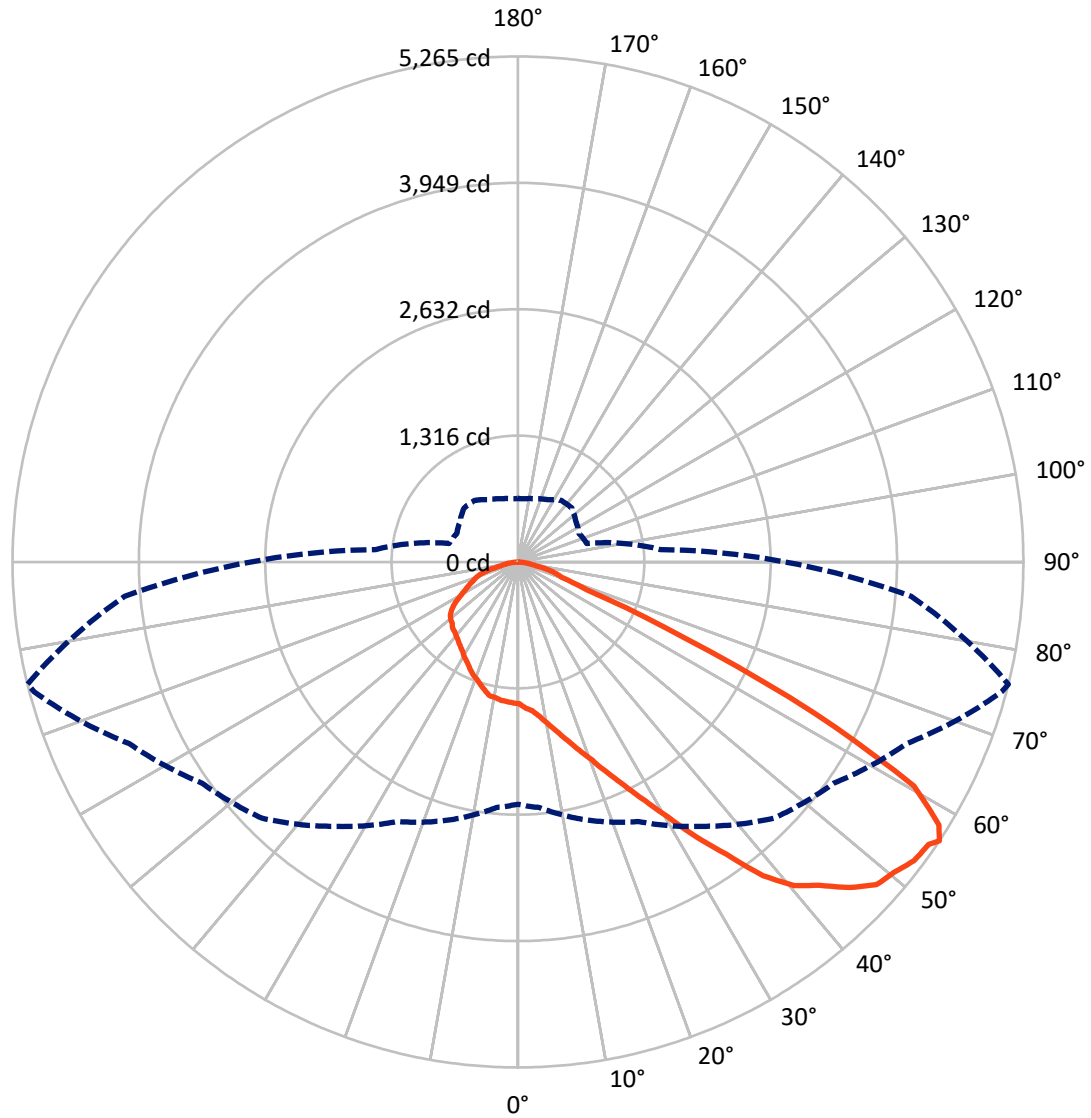
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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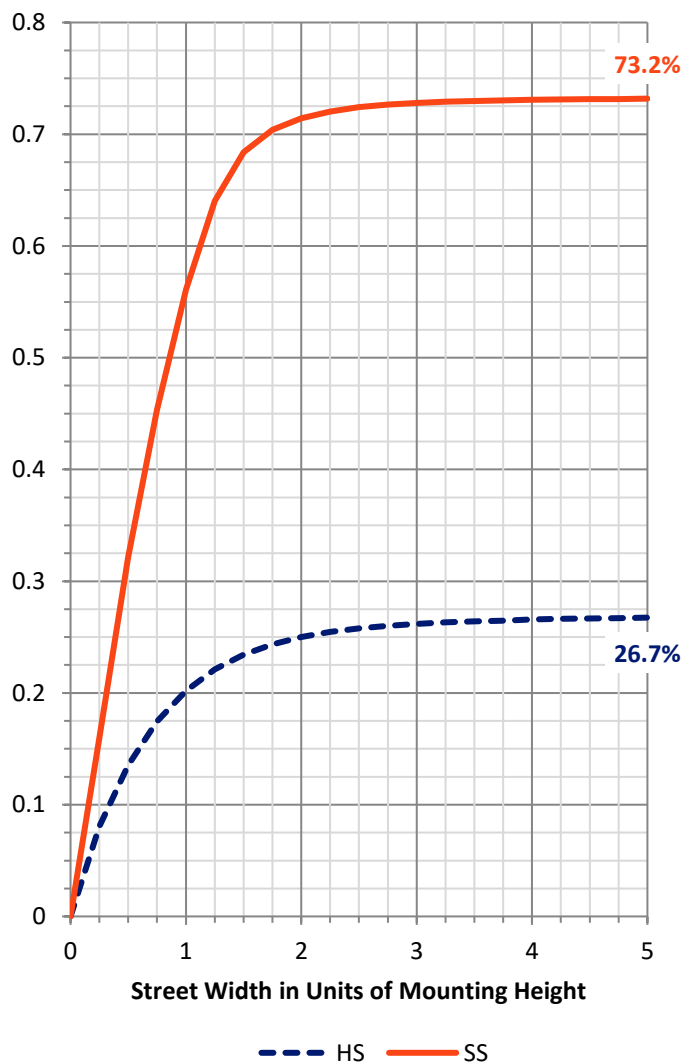
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2074.1	0.0	2074.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	5639.9	0.0	5639.9
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	7714.0	0.0	7714.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.4	1.9
10°-20°	459.8	6.0
20°-30°	804.1	10.4
30°-40°	1259.0	16.3
40°-50°	1831.5	23.7
50°-60°	2013.0	26.1
60°-70°	898.5	11.6
70°-80°	259.5	3.4
80°-90°	42.1	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°	7714.0	100.0
0°-180°	7714.0	100.0

**Coefficient of Utilization**



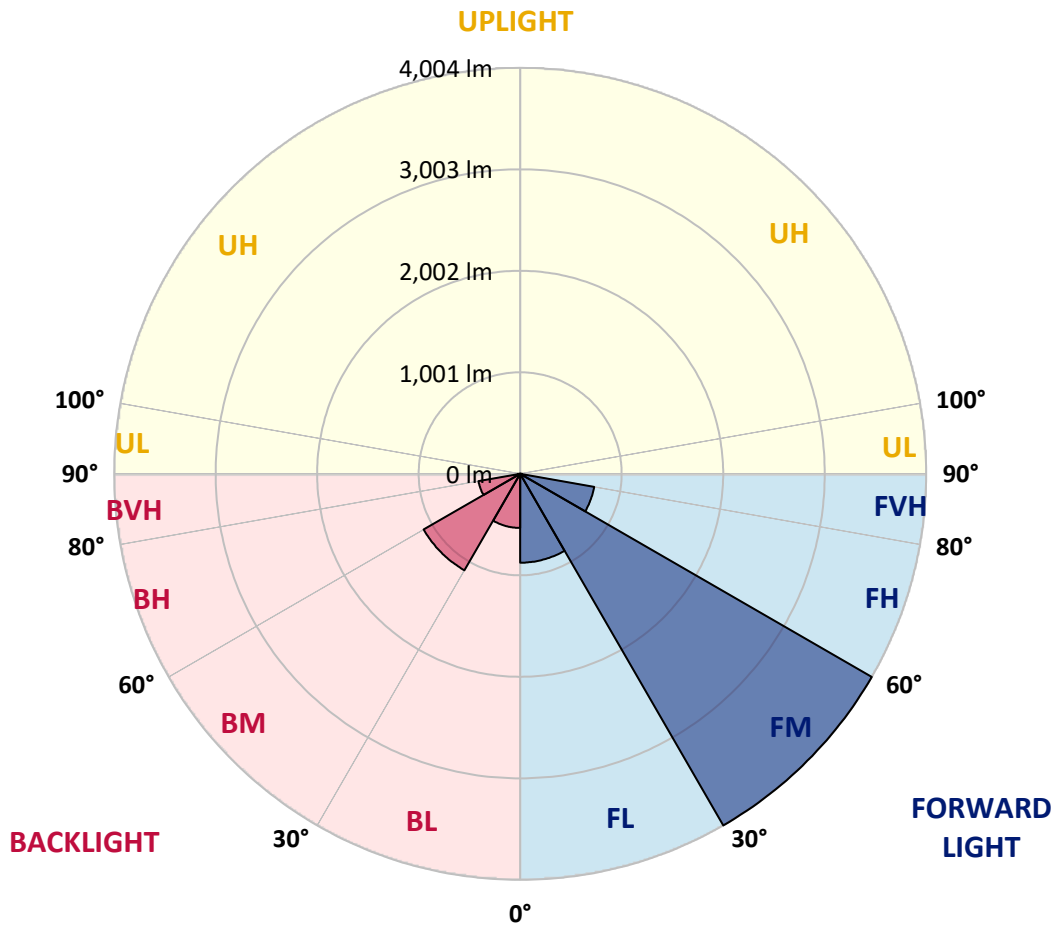
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.6	11.4			
FM (30°-60°)	4004.5	51.9			
FH (60°-80°)	740.7	9.6			G1/1800
FVH (80°-90°)	18.1	0.2			G1/100
BL (0°-30°)	533.7	6.9	B2/1000		
BM (30°-60°)	1099.1	14.2	B2/2500		
BH (60°-80°)	417.3	5.4	B1/500		G1/500
BVH (80°-90°)	24.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0
2.5°	1626.0	1600.0	1598.0	1591.0	1595.0	1577.0	1558.0	1533.0	1507.0	1523.0	1485.0
5°	1740.0	1705.0	1719.0	1695.0	1698.0	1674.0	1635.0	1606.0	1574.0	1555.0	1528.0
7.5°	1780.0	1783.0	1793.0	1789.0	1769.0	1769.0	1743.0	1692.0	1636.0	1625.0	1580.0
10°	1834.0	1835.0	1824.0	1827.0	1855.0	1842.0	1819.0	1797.0	1725.0	1712.0	1632.0
12.5°	1853.0	1835.0	1853.0	1869.0	1902.0	1920.0	1915.0	1899.0	1822.0	1813.0	1696.0
15°	1856.0	1845.0	1860.0	1896.0	1925.0	2001.0	2039.0	2028.0	1926.0	1927.0	1768.0
17.5°	1842.0	1857.0	1863.0	1894.0	1961.0	2032.0	2142.0	2157.0	2073.0	2060.0	1859.0
20°	1861.0	1850.0	1858.0	1886.0	1975.0	2086.0	2230.0	2329.0	2211.0	2202.0	1953.0
22.5°	1934.0	1919.0	1917.0	1935.0	1999.0	2114.0	2323.0	2501.0	2379.0	2384.0	2070.0
25°	1991.0	1999.0	1992.0	1991.0	2031.0	2156.0	2446.0	2706.0	2607.0	2578.0	2208.0
27.5°	2089.0	2108.0	2094.0	2113.0	2104.0	2219.0	2534.0	2933.0	2853.0	2814.0	2333.0
30°	2225.0	2235.0	2222.0	2222.0	2195.0	2307.0	2614.0	3169.9	3136.9	3083.9	2480.0
32.5°	2404.0	2419.0	2393.0	2378.0	2374.0	2438.0	2758.0	3403.9	3459.9	3414.9	2675.0
35°	2641.0	2632.0	2601.0	2587.0	2533.0	2639.0	2971.9	3672.9	3819.9	3739.9	2911.0
37.5°	2850.0	2836.0	2834.0	2756.0	2769.0	2856.0	3153.9	3876.9	4168.9	4145.9	3159.9
40°	3044.9	3057.9	3078.9	3034.9	3014.9	3110.9	3365.9	4032.9	4439.9	4430.9	3351.9
42.5°	3253.9	3241.9	3278.9	3241.9	3211.9	3347.9	3595.9	4140.9	4677.9	4603.9	3552.9
45°	3556.9	3518.9	3531.9	3534.9	3512.9	3562.9	3690.9	4218.9	4844.9	4836.9	3699.9
47.5°	3809.9	3810.9	3788.9	3771.9	3704.9	3754.9	3796.9	4267.9	5036.9	5023.9	3756.9
50°	3903.9	3890.9	3954.9	3991.9	3995.9	3893.9	3879.9	4294.9	5137.9	5080.9	3813.9
52.5°	3565.9	3577.9	3678.9	3898.9	4025.9	4036.9	3976.9	4350.9	5178.9	5166.9	3859.9
55°	2870.0	2928.0	3093.9	3347.9	3648.9	3979.9	4081.9	4408.9	5200.9	5190.9	4063.9
56°	2523.0	2568.0	2784.0	2982.9	3360.9	3772.9	4015.9	4470.9	5217.9	5264.9	4111.9
57.5°	2031.0	2083.0	2238.0	2464.0	2910.0	3378.9	3833.9	4394.9	5151.9	5169.9	4146.9
60°	1270.0	1275.0	1461.0	1610.0	1924.0	2382.0	2926.0	3823.9	4767.9	4741.9	3724.9
62.5°	833.0	834.0	1003.0	1125.0	1268.0	1373.0	1722.0	2536.0	3517.9	3471.9	2652.0
65°	585.0	598.0	729.0	892.0	950.0	895.0	884.0	1337.0	1965.0	1899.0	1425.0
67.5°	428.0	429.0	545.0	720.0	804.0	681.0	553.0	653.0	778.0	776.0	660.0
70°	283.0	295.0	384.0	538.0	634.0	547.0	452.0	467.0	495.0	495.0	491.0
72.5°	165.0	176.0	235.0	341.0	356.0	342.0	358.0	400.0	418.0	417.0	412.0
75°	94.0	99.0	112.0	142.0	177.0	209.0	263.0	303.0	321.0	332.0	319.0
77.5°	55.0	58.0	66.0	81.0	92.0	113.0	143.0	171.0	195.0	192.0	194.0
80°	29.0	29.0	37.0	48.0	64.0	80.0	95.0	111.0	124.0	127.0	130.0
82.5°	17.0	18.0	24.0	35.0	46.0	57.0	73.0	84.0	96.0	97.0	99.0
85°	9.0	10.0	15.0	23.0	31.0	35.0	36.0	34.0	37.0	35.0	40.0
87.5°	3.0	3.0	5.0	4.0	4.0	5.0	6.0	6.0	8.0	8.0	8.0
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°	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0	1476.0
2.5°	1484.0	1484.0	1467.0	1435.0	1430.0	1417.0	1405.0	1404.0	1395.0	1387.0	1383.0
5°	1512.0	1481.0	1456.0	1427.0	1393.0	1377.0	1359.0	1339.0	1331.0	1339.0	1338.0
7.5°	1544.0	1518.0	1443.0	1389.0	1350.0	1334.0	1314.0	1293.0	1295.0	1295.0	1281.0
10°	1575.0	1540.0	1420.0	1351.0	1294.0	1282.0	1271.0	1279.0	1289.0	1291.0	1282.0
12.5°	1627.0	1548.0	1409.0	1313.0	1277.0	1251.0	1258.0	1280.0	1301.0	1295.0	1302.0
15°	1666.0	1555.0	1359.0	1274.0	1229.0	1241.0	1266.0	1281.0	1316.0	1312.0	1319.0
17.5°	1704.0	1559.0	1310.0	1222.0	1203.0	1236.0	1255.0	1298.0	1309.0	1333.0	1342.0
20°	1782.0	1567.0	1260.0	1190.0	1184.0	1222.0	1255.0	1275.0	1299.0	1320.0	1320.0
22.5°	1822.0	1563.0	1227.0	1148.0	1167.0	1191.0	1221.0	1255.0	1255.0	1275.0	1276.0
25°	1872.0	1547.0	1175.0	1128.0	1142.0	1165.0	1199.0	1187.0	1200.0	1200.0	1216.0
27.5°	1929.0	1513.0	1130.0	1092.0	1120.0	1145.0	1150.0	1142.0	1127.0	1125.0	1119.0
30°	1975.0	1471.0	1097.0	1080.0	1103.0	1117.0	1101.0	1084.0	1058.0	1056.0	1042.0
32.5°	2038.0	1419.0	1056.0	1050.0	1076.0	1077.0	1072.0	1046.0	1008.0	992.0	976.0
35°	2144.0	1389.0	1025.0	1034.0	1042.0	1039.0	1030.0	1002.0	964.0	957.0	951.0
37.5°	2222.0	1367.0	993.0	1004.0	1011.0	1015.0	988.0	957.0	958.0	944.0	940.0
40°	2310.0	1353.0	967.0	972.0	973.0	986.0	953.0	938.0	945.0	936.0	942.0
42.5°	2423.0	1357.0	940.0	936.0	955.0	950.0	934.0	914.0	918.0	891.0	895.0
45°	2483.0	1384.0	924.0	906.0	927.0	926.0	905.0	886.0	862.0	810.0	812.0
47.5°	2523.0	1391.0	886.0	874.0	896.0	909.0	885.0	841.0	807.0	770.0	761.0
50°	2564.0	1404.0	868.0	843.0	852.0	883.0	853.0	811.0	778.0	745.0	750.0
52.5°	2600.0	1429.0	833.0	796.0	812.0	846.0	830.0	779.0	743.0	716.0	708.0
55°	2760.0	1485.0	774.0	726.0	764.0	807.0	798.0	736.0	697.0	683.0	681.0
56°	2785.0	1487.0	743.0	702.0	737.0	794.0	783.0	717.0	682.0	660.0	661.0
57.5°	2789.0	1463.0	699.0	680.0	710.0	775.0	761.0	702.0	654.0	634.0	628.0
60°	2454.0	1142.0	644.0	632.0	667.0	717.0	712.0	661.0	607.0	584.0	595.0
62.5°	1673.0	837.0	601.0	599.0	617.0	666.0	653.0	607.0	562.0	547.0	540.0
65°	974.0	635.0	559.0	551.0	566.0	592.0	601.0	553.0	506.0	496.0	493.0
67.5°	575.0	525.0	505.0	492.0	487.0	503.0	510.0	482.0	435.0	421.0	433.0
70°	481.0	467.0	468.0	446.0	434.0	423.0	417.0	392.0	353.0	335.0	330.0
72.5°	415.0	409.0	405.0	385.0	374.0	349.0	323.0	298.0	269.0	254.0	255.0
75°	317.0	315.0	317.0	307.0	288.0	268.0	244.0	212.0	190.0	171.0	175.0
77.5°	189.0	195.0	198.0	194.0	186.0	168.0	153.0	132.0	111.0	96.0	94.0
80°	130.0	135.0	140.0	135.0	127.0	114.0	98.0	82.0	67.0	59.0	57.0
82.5°	99.0	104.0	107.0	102.0	92.0	78.0	67.0	56.0	44.0	36.0	34.0
85°	36.0	41.0	40.0	48.0	52.0	50.0	43.0	33.0	25.0	18.0	17.0
87.5°	10.0	9.0	10.0	10.0	10.0	9.0	8.0	8.0	8.0	5.0	4.0
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)