

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: P526827

Luminaire Tested: **GALN-SA1D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4569 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

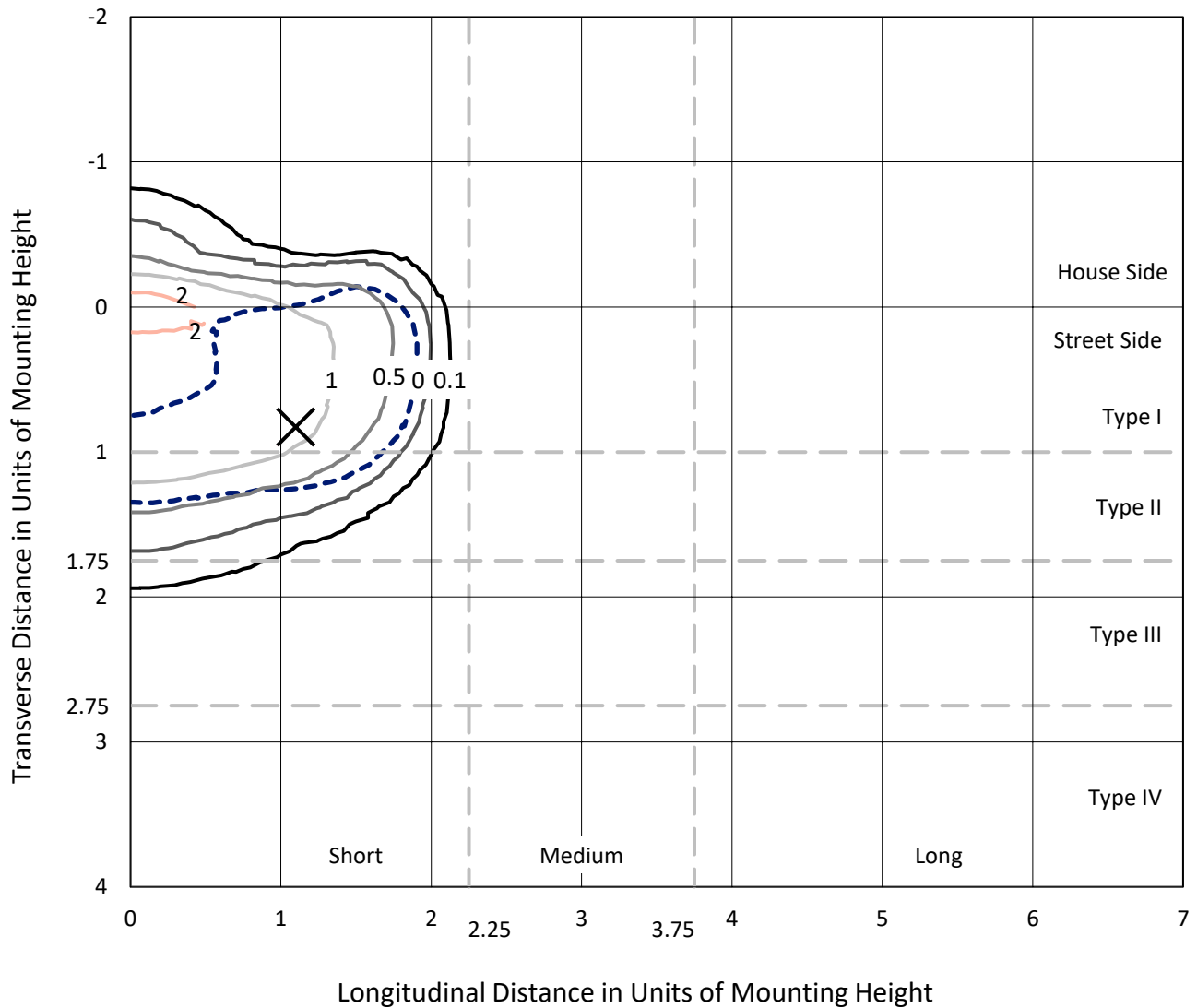
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

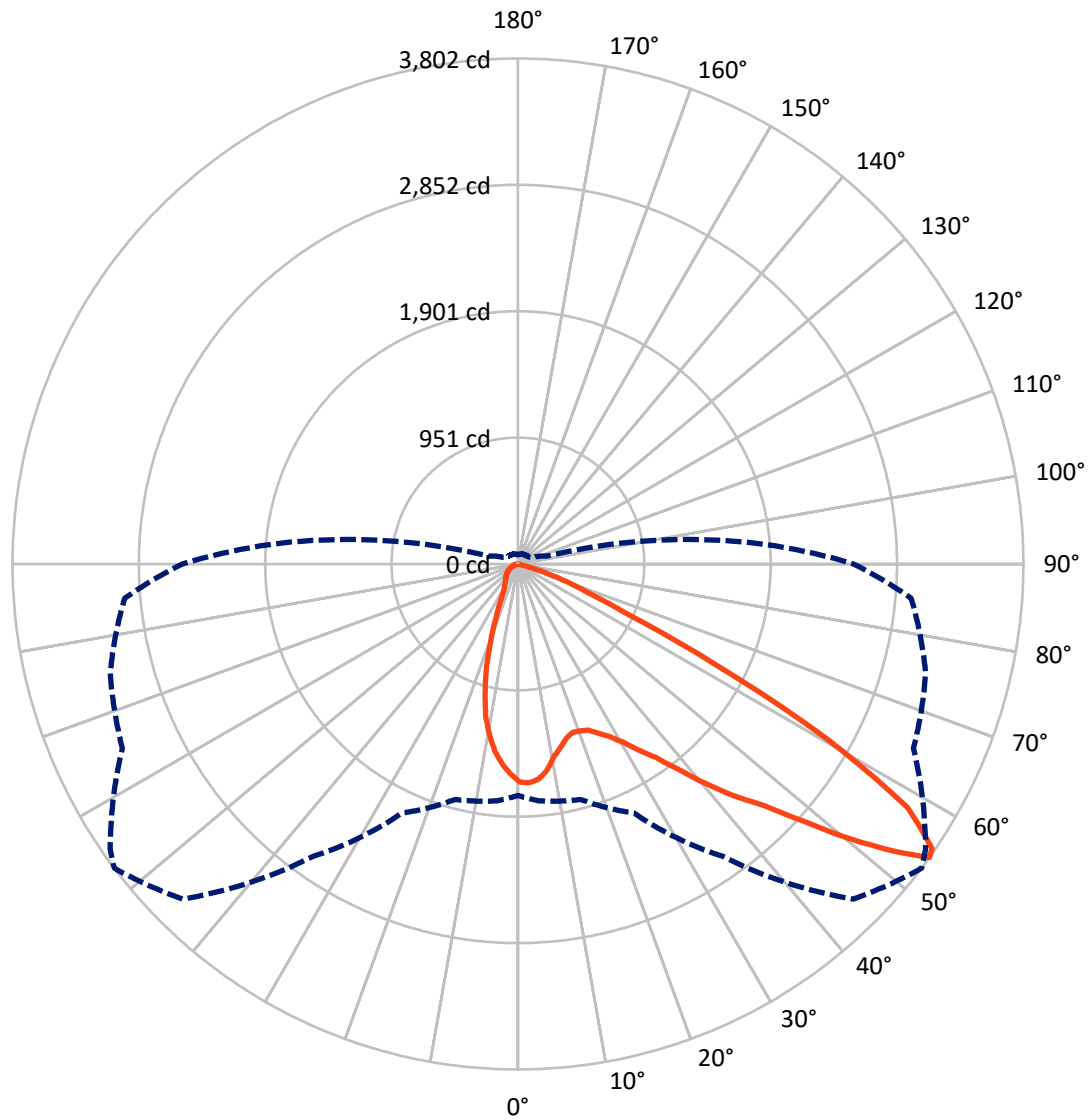
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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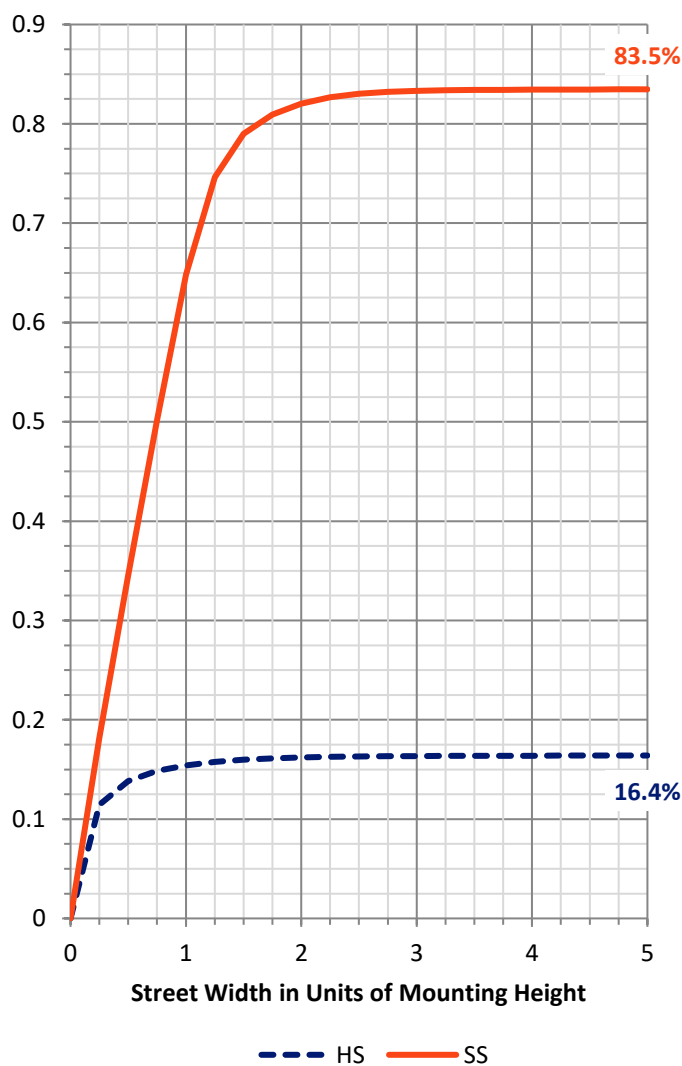
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	756.0	0.0	756.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3813.1	0.0	3813.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4569.0	0.0	4569.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.8	3.1
10°-20°	322.8	7.1
20°-30°	458.8	10.0
30°-40°	708.0	15.5
40°-50°	1110.1	24.3
50°-60°	1289.6	28.2
60°-70°	487.3	10.7
70°-80°	46.3	1.0
80°-90°	5.2	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°	4569.0	100.0
0°-180°	4569.0	100.0

**Coefficient of Utilization**



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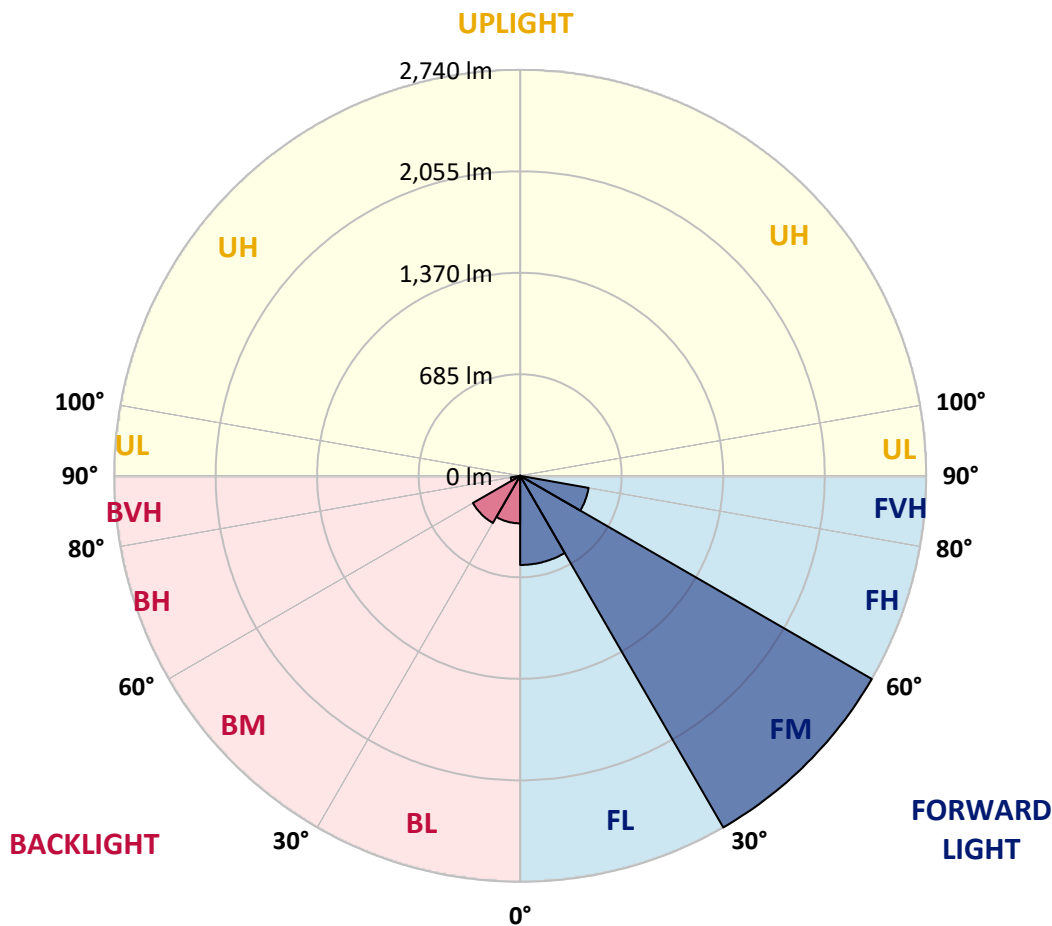
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.6	13.2			
FM (30°-60°)	2739.9	60.0			
FH (60°-80°)	468.8	10.3			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	320.8	7.0	B1/500		
BM (30°-60°)	367.9	8.1	B1/1000		
BH (60°-80°)	64.8	1.4	B0/110		G0/110
BVH (80°-90°)	2.5	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°	53°	55°	65°	75°	85°
0°	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1
2.5°	1632.6	1618.1	1632.6	1634.3	1644.5	1653.9	1647.9	1661.5	1653.9	1645.4	1642.8
5°	1500.7	1520.2	1521.1	1551.7	1544.9	1601.1	1625.8	1619.0	1660.7	1658.1	1652.2
7.5°	1382.3	1374.7	1384.9	1420.6	1465.8	1530.5	1566.2	1565.4	1624.9	1667.5	1663.2
10°	1272.5	1271.7	1293.0	1321.1	1359.4	1427.5	1476.8	1501.5	1594.3	1659.0	1668.3
12.5°	1198.5	1195.1	1218.1	1241.0	1301.5	1354.3	1417.2	1429.2	1535.6	1629.2	1644.5
15°	1150.0	1157.6	1159.3	1203.6	1241.9	1311.7	1361.1	1385.7	1508.3	1605.4	1664.1
17.5°	1141.5	1151.7	1152.5	1189.1	1230.0	1288.7	1332.1	1365.3	1485.3	1617.3	1664.9
20°	1158.5	1152.5	1157.6	1180.6	1220.6	1276.8	1339.8	1350.8	1477.7	1623.2	1674.3
22.5°	1207.0	1205.3	1192.5	1211.3	1239.3	1298.1	1357.7	1374.7	1499.8	1653.9	1682.0
25°	1260.6	1270.0	1258.1	1255.5	1275.1	1333.0	1412.1	1434.3	1573.9	1709.2	1705.8
27.5°	1361.1	1351.7	1351.7	1339.8	1334.7	1362.8	1470.9	1507.5	1656.4	1780.7	1733.0
30°	1457.2	1467.5	1459.8	1464.1	1430.0	1427.5	1554.3	1599.4	1802.8	1889.7	1790.9
32.5°	1609.6	1596.0	1608.8	1597.7	1552.6	1506.6	1667.5	1714.3	1979.9	2014.8	1877.7
35°	1736.4	1730.5	1785.0	1783.3	1710.1	1664.9	1787.5	1857.3	2103.3	2164.6	1979.9
37.5°	1916.9	1905.8	1968.0	1997.8	1932.2	1865.0	1959.5	2040.3	2218.2	2284.6	2084.6
40°	2102.5	2130.5	2214.0	2263.3	2193.5	2104.2	2169.7	2194.4	2294.8	2362.9	2156.1
42.5°	2337.4	2378.2	2463.4	2505.9	2500.0	2402.9	2383.4	2382.5	2350.2	2340.8	2208.9
45°	2563.0	2547.6	2678.7	2771.5	2846.4	2818.3	2589.3	2563.8	2437.8	2374.0	2222.5
47.5°	2661.7	2656.6	2746.0	2911.1	3166.5	3201.4	2889.0	2790.2	2585.9	2513.6	2296.5
50°	2534.0	2560.4	2648.9	2831.9	3223.5	3489.9	3256.7	3123.9	2758.7	2683.8	2471.9
52.5°	2116.9	2134.8	2219.1	2451.4	3029.4	3660.1	3609.1	3532.5	3076.2	2952.0	2777.5
54°	1740.7	1788.4	1834.3	2067.6	2683.8	3565.7	3802.3	3743.6	3283.1	3175.0	2969.8
55°	1516.0	1544.1	1577.3	1809.6	2444.6	3405.6	3780.2	3785.3	3421.8	3244.8	3099.2
57.5°	1107.4	1127.0	1092.9	1195.9	1678.6	2765.5	3457.6	3595.5	3609.1	3349.5	3178.4
60°	846.1	854.6	816.3	832.5	1043.6	1898.2	2674.5	2840.4	3255.8	2927.3	2692.3
62.5°	656.3	658.0	657.1	685.2	719.3	1116.8	1672.6	1819.9	2244.6	2078.6	1828.4
65°	483.5	475.8	489.4	574.6	613.7	702.2	881.0	988.2	1219.8	1029.9	736.3
67.5°	313.2	315.8	329.4	427.3	526.0	538.8	542.2	533.7	534.6	294.5	184.7
70°	188.1	192.4	188.1	241.7	376.2	386.4	353.2	344.7	269.0	69.8	68.9
72.5°	111.5	105.5	94.5	103.8	156.6	187.3	168.5	167.7	105.5	40.9	40.9
75°	46.8	42.6	34.9	31.5	41.7	40.0	40.0	35.8	28.1	27.2	25.5
77.5°	9.4	9.4	6.8	7.7	10.2	11.9	14.5	14.5	17.0	17.0	16.2
80°	0.0	0.9	2.6	5.1	7.7	11.1	12.8	12.8	14.5	14.5	11.9
82.5°	0.0	0.9	2.6	5.1	6.8	10.2	12.8	12.8	14.5	15.3	12.8
85°	0.0	0.9	2.6	4.3	6.8	8.5	8.5	7.7	6.0	5.1	3.4
87.5°	0.0	0.0	0.9	1.7	0.9	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°	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1	1641.1
2.5°	1648.8	1647.9	1627.5	1594.3	1586.6	1558.5	1555.1	1538.1	1547.5	1516.0	1512.6
5°	1635.1	1624.9	1600.3	1579.0	1516.8	1472.6	1437.7	1395.1	1370.4	1374.7	1358.5
7.5°	1654.7	1628.3	1584.9	1510.9	1435.1	1357.7	1316.0	1229.1	1197.6	1150.8	1144.0
10°	1634.3	1614.7	1547.5	1424.9	1320.2	1208.7	1110.8	1014.6	941.4	909.9	903.1
12.5°	1632.6	1598.5	1486.2	1350.0	1198.5	1038.5	896.3	776.3	703.9	663.1	653.7
15°	1606.2	1565.4	1417.2	1234.2	1024.8	825.7	670.7	555.0	499.7	475.8	482.6
17.5°	1608.8	1547.5	1348.3	1111.7	853.8	606.1	457.9	398.4	383.9	389.8	389.8
20°	1606.2	1507.5	1264.9	970.4	653.7	420.5	336.2	314.9	324.3	343.0	338.8
22.5°	1592.6	1488.7	1188.3	821.4	480.9	311.5	269.8	270.7	285.2	308.1	313.2
25°	1602.8	1447.0	1091.2	670.7	350.7	248.5	234.1	240.0	255.4	272.4	275.8
27.5°	1595.1	1417.2	989.9	520.9	256.2	213.7	212.8	219.6	226.4	239.2	239.2
30°	1603.7	1390.0	890.4	387.3	211.1	195.8	192.4	197.5	204.3	206.8	206.0
32.5°	1635.1	1369.6	775.4	289.4	186.4	178.8	178.8	178.8	177.9	181.3	182.2
35°	1704.1	1373.0	674.1	223.9	170.2	164.3	161.7	158.3	156.6	158.3	159.2
37.5°	1779.0	1371.3	569.5	190.7	158.3	153.2	147.3	142.1	141.3	143.0	140.4
40°	1812.2	1387.5	472.4	171.1	147.3	141.3	131.9	127.7	128.5	130.2	128.5
42.5°	1857.3	1392.6	409.4	155.8	137.0	127.7	121.7	116.6	115.8	118.3	117.5
45°	1856.5	1363.6	343.0	147.3	127.7	117.5	109.8	105.5	105.5	107.3	108.1
47.5°	1910.9	1359.4	294.5	139.6	120.9	110.7	101.3	97.9	97.0	97.0	95.3
50°	2037.8	1418.9	257.1	131.1	112.4	103.0	95.3	91.1	87.7	86.0	85.1
52.5°	2285.5	1604.5	228.1	120.9	103.0	95.3	88.5	85.1	80.9	76.6	75.8
54°	2525.5	1796.0	226.4	112.4	95.3	90.2	84.3	82.6	77.5	71.5	69.8
55°	2633.6	1907.5	232.4	105.5	90.2	86.8	81.7	80.0	74.9	68.1	67.2
57.5°	2723.0	1950.9	229.0	87.7	81.7	80.9	76.6	74.1	68.1	58.7	57.0
60°	2191.8	1475.1	164.3	77.5	74.9	73.2	69.8	68.1	60.4	50.2	49.4
62.5°	1384.9	848.6	104.7	68.1	65.5	63.0	58.7	57.0	50.2	40.0	37.5
65°	589.9	351.5	70.6	60.4	56.2	51.9	48.5	46.0	40.0	29.8	28.9
67.5°	153.2	125.1	58.7	52.8	46.8	40.9	38.3	34.0	27.2	20.4	19.6
70°	68.9	63.0	49.4	44.3	37.5	31.5	28.1	23.8	17.9	13.6	12.8
72.5°	40.9	40.0	37.5	33.2	28.1	23.8	20.4	16.2	11.9	7.7	7.7
75°	25.5	24.7	25.5	23.0	19.6	17.9	15.3	11.1	6.8	3.4	3.4
77.5°	15.3	15.3	15.3	14.5	13.6	13.6	11.1	6.8	3.4	0.9	0.9
80°	11.9	11.9	12.8	11.9	11.9	11.9	9.4	5.1	1.7	0.0	0.0
82.5°	11.9	12.8	14.5	13.6	11.9	10.2	8.5	5.1	1.7	0.0	0.0
85°	3.4	2.6	4.3	6.0	8.5	7.7	6.0	4.3	1.7	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	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)