

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: P450721

Luminaire Tested: **GALN-SA1C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7051 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

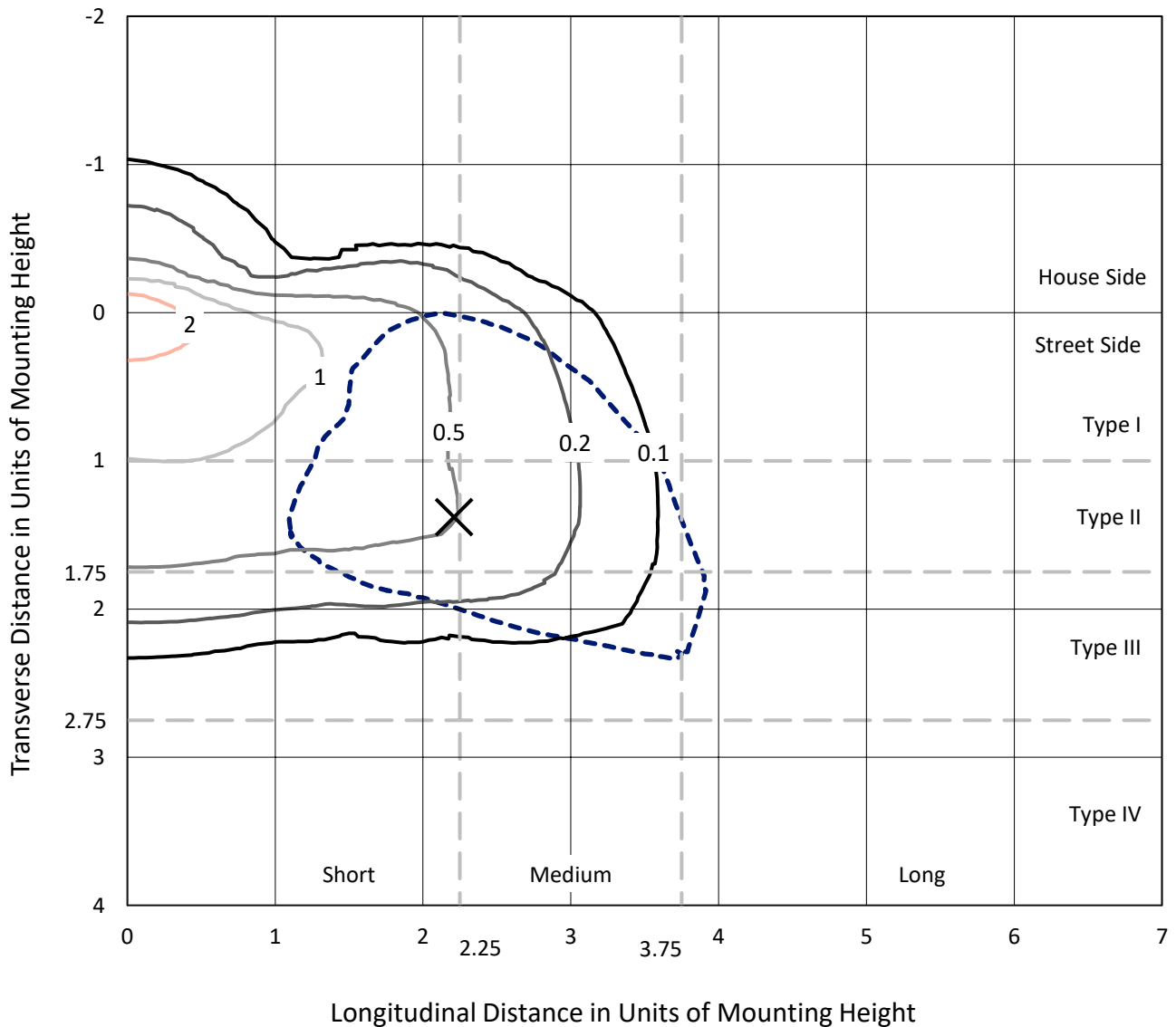
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

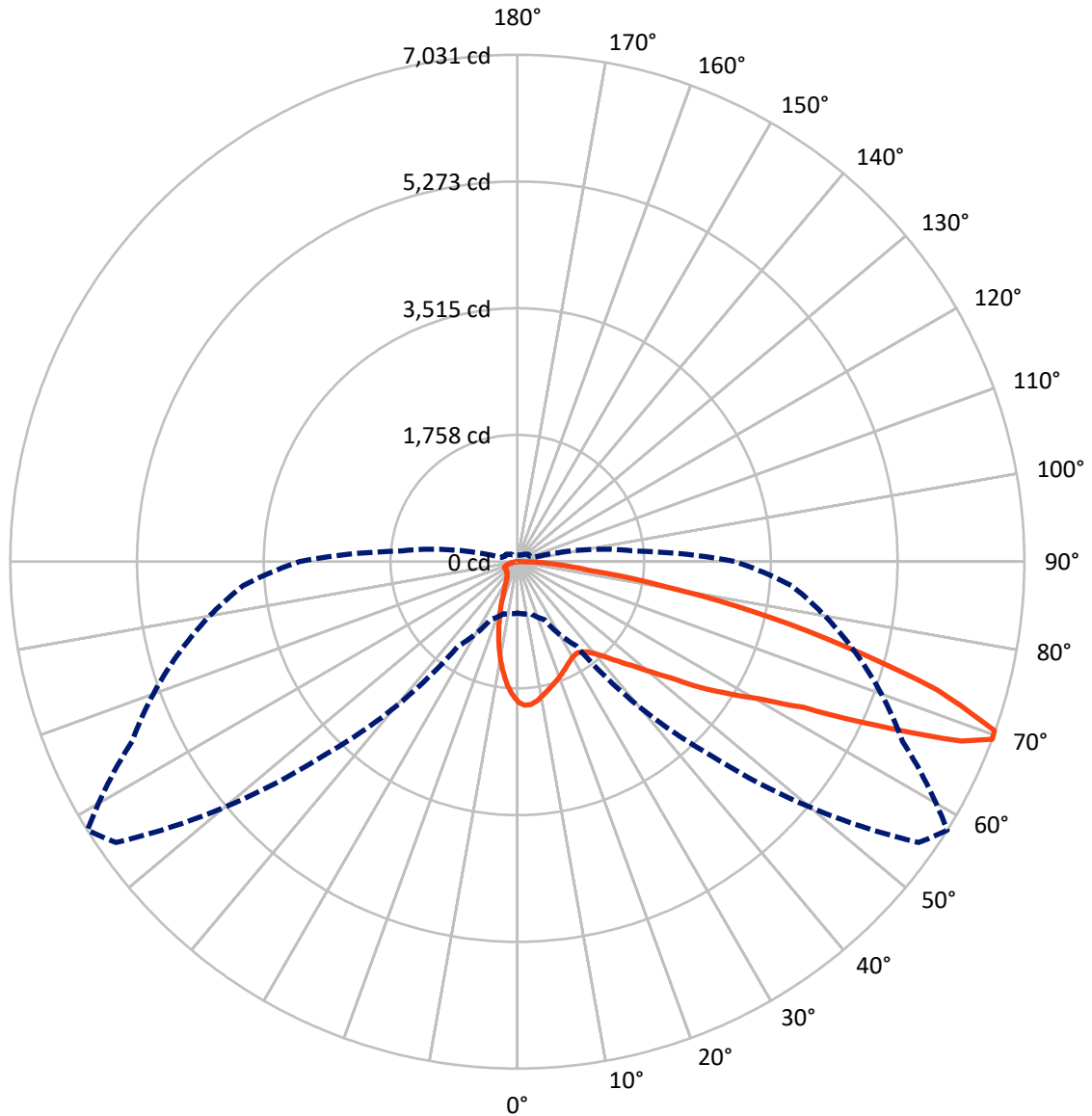
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1033.3	0.0	1033.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6017.7	0.0	6017.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	7051.0	0.0	7051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	2.3
10°-20°	363.4	5.2
20°-30°	469.5	6.7
30°-40°	609.7	8.6
40°-50°	886.5	12.6
50°-60°	1414.5	20.1
60°-70°	1889.6	26.8
70°-80°	1089.3	15.4
80°-90°	163.2	2.3
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°	7051.0	100.0
0°-180°	7051.0	100.0

Coefficient of Utilization



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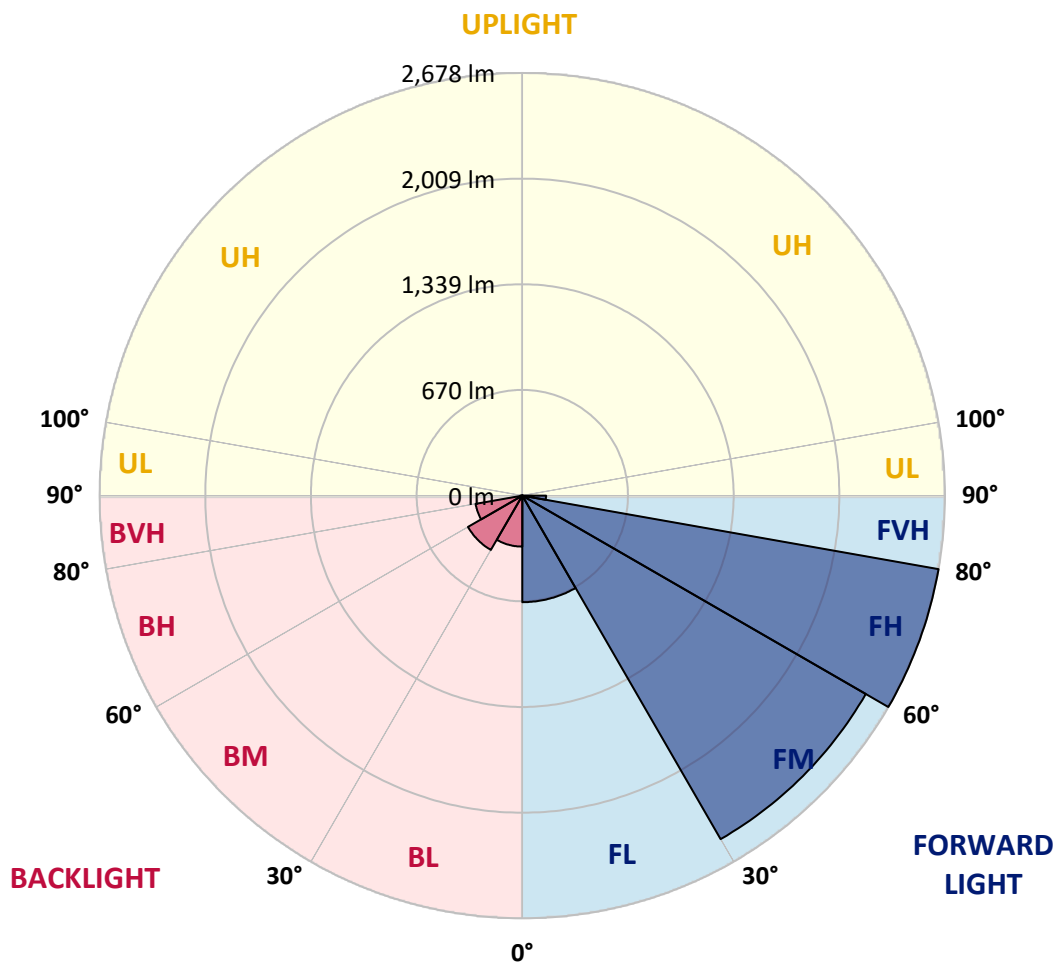
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.3	9.6			
FM	(30°-60°)	2513.3	35.6			
FH	(60°-80°)	2678.4	38.0			G2/5000
FVH	(80°-90°)	150.7	2.1			G2/225
BL	(0°-30°)	323.0	4.6	B1/500		
BM	(30°-60°)	397.4	5.6	B1/1000		
BH	(60°-80°)	300.5	4.3	B1/500		G1/500
BVH	(80°-90°)	12.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5
2.5°	2020.8	2026.3	2024.8	2022.8	2019.7	2011.0	1996.9	1994.5	1985.4	1966.2	1942.2
5°	1989.8	1994.5	1994.9	1997.6	2001.6	2000.0	1989.8	1988.6	1975.2	1949.3	1909.2
7.5°	1883.2	1889.5	1903.3	1918.6	1932.4	1945.3	1948.5	1950.4	1942.2	1912.3	1858.8
10°	1763.3	1769.6	1775.9	1798.7	1832.5	1864.7	1891.5	1895.0	1897.0	1869.4	1804.2
12.5°	1630.4	1643.3	1656.7	1690.5	1735.7	1786.5	1833.7	1841.1	1854.5	1833.7	1757.0
15°	1517.5	1530.9	1550.1	1580.4	1635.1	1708.2	1774.7	1786.9	1813.2	1802.6	1712.9
17.5°	1439.2	1444.0	1457.3	1491.9	1550.9	1628.0	1716.9	1741.2	1783.3	1780.6	1675.2
20°	1377.5	1383.4	1391.7	1412.9	1474.2	1555.6	1663.0	1694.5	1751.5	1760.9	1637.8
22.5°	1351.6	1355.9	1354.7	1366.1	1407.8	1489.6	1608.3	1645.7	1723.2	1747.5	1603.2
25°	1353.1	1357.1	1351.2	1348.4	1373.2	1431.4	1551.3	1598.9	1700.4	1738.5	1571.8
27.5°	1379.5	1382.2	1371.2	1360.2	1362.2	1395.2	1504.1	1556.8	1681.1	1742.4	1545.4
30°	1414.9	1420.0	1412.9	1399.5	1385.0	1386.5	1473.8	1525.8	1672.0	1756.2	1532.8
32.5°	1460.5	1465.2	1462.1	1451.4	1432.6	1411.7	1466.4	1514.4	1672.8	1784.1	1530.1
35°	1508.5	1517.9	1523.0	1522.2	1506.9	1470.7	1495.9	1535.6	1691.7	1830.9	1546.2
37.5°	1562.7	1570.6	1592.6	1606.8	1592.6	1550.5	1562.3	1589.9	1733.4	1898.5	1581.6
40°	1615.4	1627.2	1659.5	1703.5	1698.0	1661.0	1663.8	1681.9	1806.9	1999.2	1650.8
42.5°	1670.5	1684.6	1740.9	1806.1	1819.1	1790.4	1797.9	1814.0	1911.5	2138.8	1769.6
45°	1741.2	1758.2	1827.4	1908.8	1959.9	1942.2	1963.4	1971.3	2051.5	2320.5	1926.1
47.5°	1832.5	1852.1	1937.5	2038.9	2111.3	2127.4	2164.4	2159.7	2224.9	2535.6	2129.0
50°	1986.2	1997.2	2077.9	2181.3	2280.8	2353.5	2393.6	2401.1	2440.0	2744.8	2355.9
52.5°	2169.1	2178.9	2237.1	2327.6	2452.2	2606.4	2705.5	2681.1	2690.5	2999.6	2621.3
55°	2374.8	2391.3	2428.2	2488.4	2650.0	2876.9	3075.9	3081.8	2977.2	3243.4	2875.7
57.5°	2534.0	2561.9	2625.2	2711.0	2915.8	3177.7	3445.1	3449.1	3315.4	3503.7	3156.5
60°	2453.8	2486.8	2631.5	2840.3	3264.6	3702.7	3886.3	3863.9	3644.5	3800.2	3499.0
62.5°	2107.7	2113.6	2324.0	2650.4	3372.0	4405.0	4543.1	4448.3	4083.8	4176.2	3847.0
65°	1364.1	1402.7	1569.4	2026.7	3019.3	4794.7	5693.7	5474.6	4699.6	4602.8	4138.4
67.5°	861.2	851.4	920.6	1157.3	2076.7	4451.4	6675.6	6641.0	5504.9	4872.2	4068.8
69°	714.1	725.1	748.7	887.1	1429.0	3800.6	6791.6	7030.7	5895.4	4851.0	3816.0
70°	647.7	652.8	677.5	786.5	1102.6	3183.2	6601.3	7020.0	6048.8	4762.1	3632.7
72.5°	514.0	513.6	556.0	654.3	824.2	1817.1	5420.4	6094.8	5877.3	4348.4	3001.6
75°	390.5	396.8	443.6	553.7	759.3	992.9	3782.5	4693.7	4694.1	3434.5	1873.0
77.5°	281.6	285.5	340.1	464.8	715.3	805.0	2519.5	3366.5	3164.8	1573.7	588.7
80°	184.4	186.8	228.5	368.1	644.9	759.3	1493.9	2060.6	1492.7	417.6	194.7
82.5°	101.1	112.9	139.6	238.3	517.5	701.5	908.0	1042.9	560.0	186.0	101.5
85°	50.7	53.9	78.6	139.2	338.2	580.4	632.3	598.1	289.0	92.4	52.7
87.5°	14.9	18.9	32.6	53.9	137.2	302.4	351.9	315.8	111.3	33.4	11.0
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°	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5	1948.5
2.5°	1932.4	1925.3	1893.8	1865.5	1839.6	1812.0	1788.8	1768.4	1770.3	1770.7	1749.9
5°	1888.3	1872.2	1812.4	1756.6	1709.4	1649.6	1598.5	1565.5	1549.0	1526.9	1534.8
7.5°	1828.5	1797.5	1714.5	1621.7	1534.8	1457.3	1373.2	1315.4	1278.4	1242.6	1247.3
10°	1766.8	1716.9	1596.1	1473.5	1361.0	1237.1	1129.8	1037.7	969.3	943.8	926.9
12.5°	1703.5	1637.8	1484.5	1321.3	1165.9	1017.7	865.5	766.8	691.3	651.2	656.3
15°	1645.7	1565.9	1368.1	1169.1	967.4	790.8	639.0	545.0	492.3	481.3	487.6
17.5°	1592.2	1487.6	1259.1	1021.2	785.7	593.0	480.1	427.1	405.8	399.9	399.5
20°	1537.2	1421.2	1136.8	863.2	612.3	459.7	394.0	369.2	365.3	367.7	368.1
22.5°	1481.3	1339.0	1011.0	706.3	487.6	375.9	344.5	337.8	340.9	346.4	347.2
25°	1429.8	1266.6	889.9	568.6	389.3	330.3	315.0	315.0	322.1	330.3	330.7
27.5°	1387.3	1196.6	769.2	451.4	326.0	297.3	292.2	294.9	304.8	311.0	311.4
30°	1352.3	1131.3	655.1	361.8	286.7	270.9	269.8	274.5	281.6	287.5	287.8
32.5°	1326.0	1073.9	548.6	304.0	259.5	250.9	250.5	254.0	258.0	259.5	261.1
35°	1315.8	1026.3	451.0	267.4	241.4	235.9	235.9	235.5	237.1	237.9	238.7
37.5°	1324.0	989.8	375.5	243.8	228.1	224.1	221.8	219.4	218.6	218.6	219.0
40°	1359.0	970.5	319.3	228.5	218.6	212.7	208.4	205.7	202.9	203.7	204.5
42.5°	1433.3	974.0	281.2	218.2	210.4	202.1	195.8	192.7	190.7	193.1	192.7
45°	1551.7	1009.4	256.8	211.2	202.1	191.5	185.6	182.5	182.5	186.0	187.2
47.5°	1717.3	1077.1	243.8	205.7	195.8	183.2	177.3	175.0	175.8	181.7	182.1
50°	1919.4	1194.7	241.4	202.9	192.7	177.3	170.7	168.3	170.3	176.6	177.3
52.5°	2142.3	1346.0	252.9	203.3	189.9	173.8	165.2	161.6	163.6	168.7	170.3
55°	2406.6	1535.6	282.3	204.9	186.0	171.8	161.2	153.4	155.7	159.3	159.7
57.5°	2676.4	1774.7	334.3	205.3	182.9	168.3	154.5	144.3	144.3	146.7	147.9
60°	3005.9	2035.0	402.7	205.7	183.2	163.2	145.5	134.1	132.5	133.7	134.1
62.5°	3333.1	2252.8	414.1	204.5	187.2	158.1	135.7	123.9	121.1	120.7	119.9
65°	3477.4	2212.3	339.4	199.0	191.5	154.9	127.8	114.0	109.3	107.7	107.7
67.5°	3242.2	1871.4	255.2	191.5	188.8	151.8	120.3	105.8	100.3	97.1	97.1
69°	3021.2	1664.6	229.3	186.4	181.7	146.7	115.6	101.5	94.8	91.2	90.1
70°	2850.6	1522.2	218.2	182.1	175.0	140.8	112.1	98.3	90.8	86.9	86.1
72.5°	2274.9	1194.3	191.1	165.6	149.0	118.4	99.5	88.5	81.4	77.1	75.9
75°	1311.0	647.3	158.5	143.9	119.9	92.0	84.2	77.1	71.6	67.6	66.5
77.5°	403.5	250.1	114.8	113.6	88.1	71.2	67.2	64.5	60.6	56.2	55.4
80°	169.9	127.4	77.9	76.7	58.6	49.5	48.4	48.0	46.4	42.9	41.7
82.5°	93.2	72.0	54.3	47.2	35.4	28.7	29.9	30.3	29.1	25.6	23.2
85°	45.6	39.3	26.3	21.2	16.1	10.2	9.8	11.8	11.0	7.9	8.7
87.5°	9.0	11.0	7.1	3.1	1.6	0.0	0.0	0.0	0.0	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)