

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: P382961

Luminaire Tested: **GLEON-SA3A-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13160.9 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

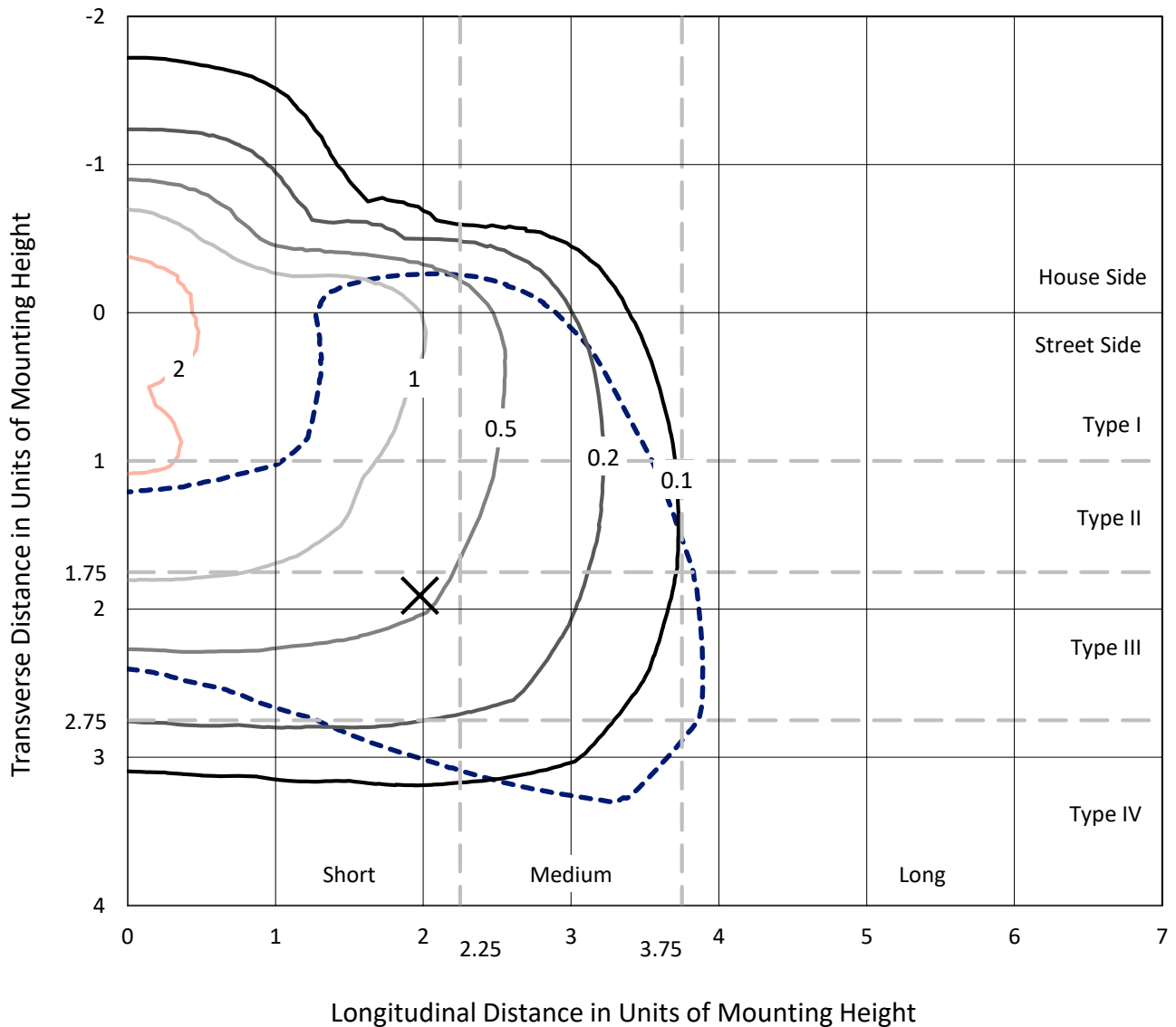
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

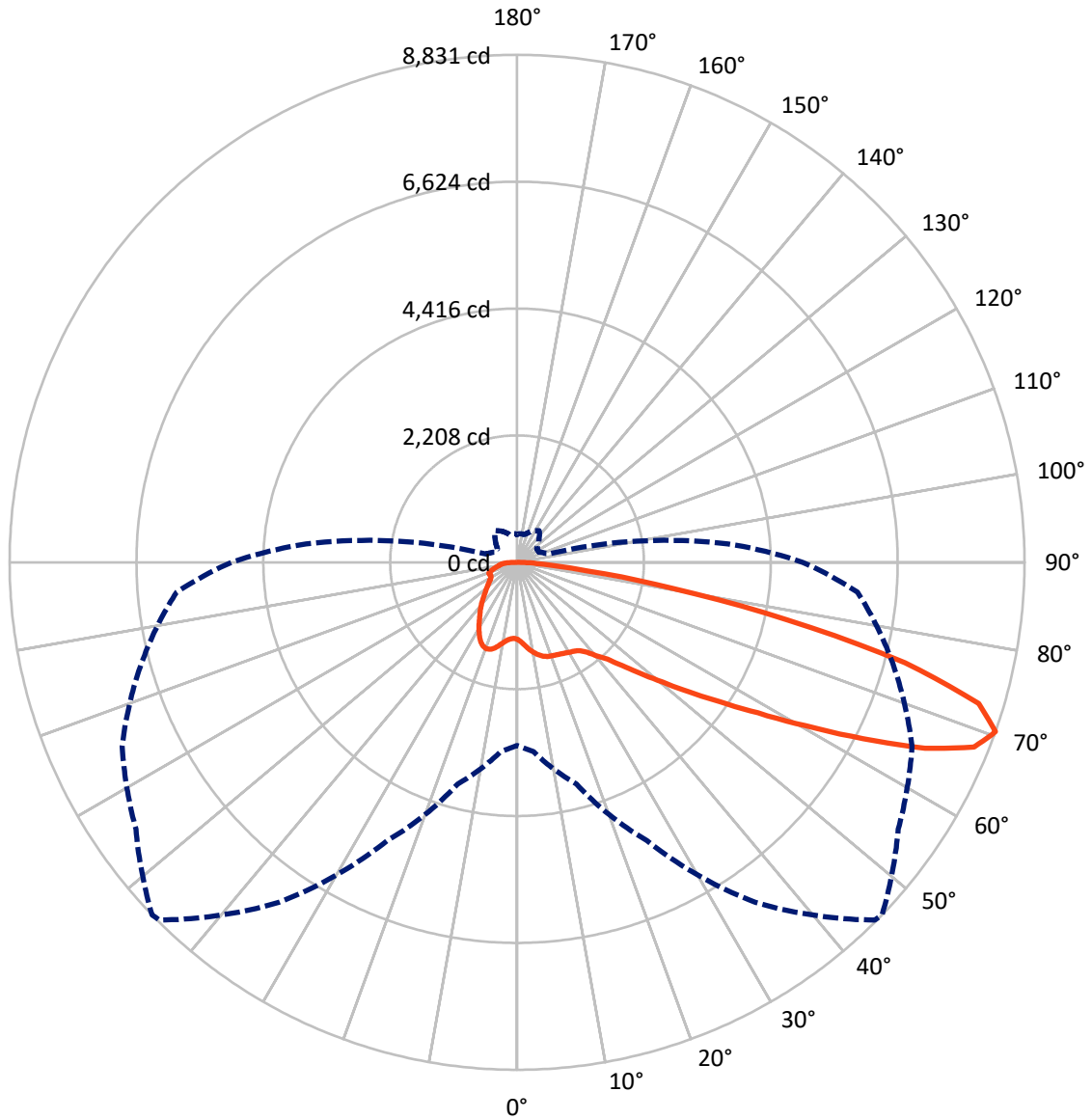
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.4	0.0	3016.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10144.5	0.0	10144.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	13160.9	0.0	13160.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	1.0
10°-20°	455.4	3.5
20°-30°	759.3	5.8
30°-40°	1077.5	8.2
40°-50°	1585.0	12.0
50°-60°	2684.2	20.4
60°-70°	3810.2	29.0
70°-80°	2314.7	17.6
80°-90°	337.8	2.6
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°	13160.9	100.0
0°-180°	13160.9	100.0

Coefficient of Utilization

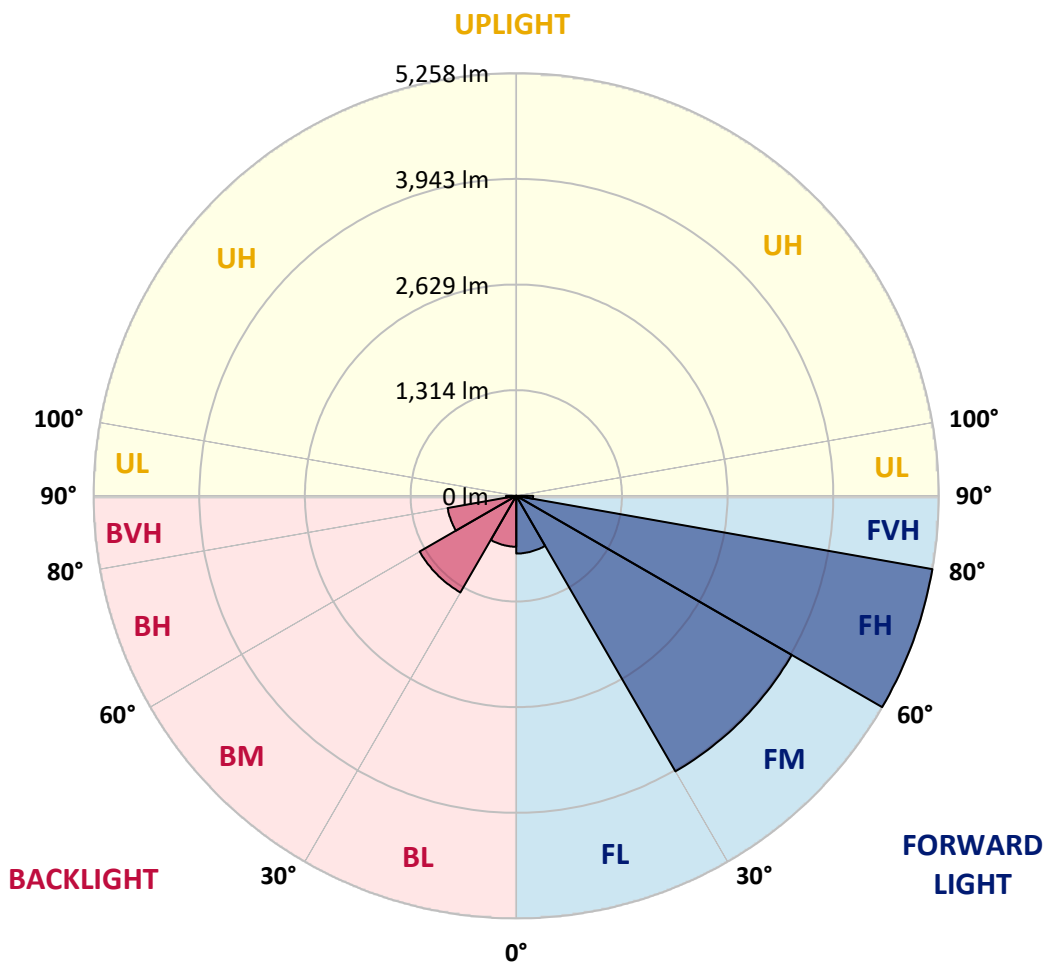


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.1	5.5			
FM (30°-60°)	3958.2	30.1			
FH (60°-80°)	5257.7	39.9			G3/7500
FVH (80°-90°)	210.4	1.6			G2/225
BL (0°-30°)	633.3	4.8	B2/1000		
BM (30°-60°)	1388.6	10.6	B2/2500		
BH (60°-80°)	867.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	127.4	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9
2.5°	1407.9	1408.9	1410.6	1406.2	1393.5	1390.0	1388.6	1375.5	1367.0	1354.4	1343.6
5°	1520.6	1521.4	1518.7	1506.1	1478.2	1457.5	1455.7	1425.9	1398.9	1370.1	1348.5
7.5°	1638.1	1639.4	1630.9	1607.0	1567.8	1531.8	1529.6	1489.0	1448.0	1404.3	1371.9
10°	1742.2	1736.8	1722.8	1689.5	1643.1	1598.9	1597.1	1554.8	1507.5	1454.8	1411.6
12.5°	1811.5	1807.0	1788.9	1748.4	1697.6	1657.0	1653.4	1614.2	1568.3	1510.6	1458.8
15°	1849.8	1852.9	1828.6	1782.7	1733.1	1698.9	1695.8	1667.8	1626.9	1568.7	1509.3
17.5°	1854.7	1857.4	1834.0	1788.6	1748.0	1724.6	1723.3	1704.7	1675.0	1619.2	1557.0
20°	1825.9	1827.7	1808.3	1771.0	1744.4	1737.1	1736.8	1728.7	1706.6	1657.0	1596.7
22.5°	1784.0	1785.4	1771.4	1744.4	1735.4	1746.7	1749.8	1746.7	1730.9	1684.5	1627.8
25°	1773.7	1772.7	1758.4	1730.9	1738.5	1762.4	1766.5	1767.8	1757.0	1716.5	1667.4
27.5°	1823.7	1820.5	1793.0	1748.9	1753.8	1782.7	1788.1	1801.1	1794.3	1758.9	1712.5
30°	1968.3	1962.9	1906.5	1817.4	1793.0	1807.9	1814.7	1835.3	1836.7	1807.0	1772.4
32.5°	2212.3	2205.6	2104.7	1945.3	1859.3	1833.6	1839.9	1870.9	1887.6	1864.7	1827.2
35°	2520.9	2513.2	2380.8	2162.8	1970.0	1882.7	1887.1	1911.9	1945.3	1912.8	1863.3
37.5°	2842.4	2824.0	2696.6	2418.7	2146.2	1987.6	1987.6	1990.8	2006.6	1938.9	1905.7
40°	3162.2	3143.8	3028.5	2719.5	2374.0	2152.9	2142.6	2072.7	2060.1	2002.0	1990.8
42.5°	3459.5	3454.1	3386.1	3059.6	2641.6	2315.5	2301.1	2182.6	2185.3	2149.3	2149.7
45°	3775.7	3775.7	3720.3	3402.8	2953.3	2576.8	2562.3	2388.0	2415.0	2398.4	2438.4
47.5°	4033.8	4041.9	4034.3	3760.4	3315.8	2908.7	2882.6	2672.7	2748.3	2805.5	2922.2
50°	4297.2	4309.9	4311.2	4152.7	3754.0	3303.3	3273.5	3050.5	3219.4	3383.4	3612.6
52.5°	4679.6	4708.0	4595.0	4544.1	4291.0	3771.6	3742.4	3536.5	3818.5	4048.6	4443.7
55°	5034.1	5009.3	4928.7	4960.2	4865.7	4305.0	4282.9	4102.3	4486.0	4785.1	5298.1
57.5°	5226.0	5224.2	5305.3	5440.3	5485.4	4962.5	4944.0	4768.4	5238.6	5463.3	6100.2
60°	5451.1	5454.3	5655.2	5961.9	6147.5	5781.4	5773.2	5639.9	5969.6	6096.6	6729.4
62.5°	5482.7	5539.4	5885.3	6413.2	6767.2	6738.0	6756.0	6425.0	6623.6	6602.0	7199.2
65°	5120.2	5194.9	5821.0	6549.7	7383.4	7784.3	7800.9	7214.5	7139.3	7033.9	7367.1
67.5°	4377.0	4487.8	5167.9	6252.9	7586.5	8557.6	8581.0	7826.6	7567.1	7180.3	6962.8
70°	3185.2	3308.2	3992.8	5340.4	7224.4	8804.9	8831.4	8097.3	7583.4	6763.7	5943.9
72.5°	1924.1	2020.5	2584.9	3931.5	6097.5	8354.5	8401.7	7754.1	6923.5	5729.1	4389.2
75°	844.9	908.0	1249.9	2265.5	4365.2	6912.3	6971.2	6637.1	5625.5	4163.5	2594.3
77.5°	359.9	377.9	512.5	984.1	2467.8	4723.3	4804.4	4849.5	3816.6	2265.5	1096.2
80°	224.3	231.5	290.1	445.5	1154.8	2652.9	2740.2	2853.2	1895.2	832.8	382.9
82.5°	136.5	144.6	192.7	269.3	601.3	1202.5	1244.5	1324.2	735.5	359.9	198.1
85°	82.0	87.8	118.0	170.3	342.3	472.9	472.5	522.5	346.3	231.5	104.5
87.5°	39.2	43.7	63.1	88.3	172.5	177.5	166.2	188.3	210.3	151.7	52.7
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°	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9
2.5°	1339.9	1338.2	1332.3	1327.7	1326.9	1324.2	1322.0	1323.3	1325.0	1325.5	1325.5
5°	1339.5	1334.5	1326.9	1323.7	1327.7	1333.1	1339.9	1349.0	1354.4	1358.4	1361.1
7.5°	1361.1	1351.7	1343.1	1341.3	1349.4	1363.8	1379.2	1398.1	1411.1	1420.1	1421.9
10°	1397.1	1385.4	1376.8	1378.7	1393.1	1413.8	1435.4	1459.7	1479.6	1491.7	1492.6
12.5°	1438.6	1427.3	1419.2	1426.9	1450.7	1475.9	1498.5	1519.6	1537.7	1549.8	1549.8
15°	1486.3	1478.2	1468.8	1486.3	1518.7	1541.2	1550.7	1561.1	1571.0	1580.0	1578.2
17.5°	1532.3	1524.6	1519.6	1540.4	1574.1	1584.5	1578.2	1570.5	1570.5	1575.5	1576.4
20°	1571.9	1565.1	1568.3	1588.6	1606.1	1595.3	1571.9	1547.6	1537.7	1540.4	1543.1
22.5°	1606.5	1603.4	1612.9	1622.4	1609.7	1571.9	1528.7	1495.8	1483.6	1482.7	1483.6
25°	1647.1	1646.7	1658.3	1641.3	1585.4	1515.6	1457.5	1425.5	1418.7	1424.1	1433.2
27.5°	1697.6	1702.5	1708.4	1645.8	1535.8	1430.5	1371.4	1349.4	1356.1	1369.2	1377.8
30°	1761.9	1775.4	1762.9	1634.5	1464.7	1333.1	1276.9	1270.5	1289.1	1307.5	1316.6
32.5°	1824.5	1845.8	1815.1	1605.2	1372.8	1230.0	1186.3	1184.6	1207.1	1225.1	1237.7
35°	1875.0	1916.9	1854.3	1547.1	1266.5	1135.0	1103.0	1090.8	1098.9	1120.2	1134.5
37.5°	1940.8	2010.6	1881.4	1458.4	1151.2	1056.7	1019.3	991.4	984.1	992.7	999.9
40°	2061.0	2153.4	1893.9	1334.5	1038.6	978.3	940.4	899.4	871.1	850.3	850.8
42.5°	2257.4	2339.4	1885.8	1184.1	934.6	901.7	858.9	811.7	765.6	718.9	715.2
45°	2576.3	2615.9	1861.5	1024.7	843.1	821.5	781.5	734.2	672.9	619.8	614.8
47.5°	3086.6	2998.7	1823.7	885.5	762.6	753.5	716.5	662.1	597.2	554.5	550.8
50°	3782.5	3551.4	1805.2	774.7	691.4	694.1	663.9	606.3	545.0	513.5	509.8
52.5°	4614.8	4195.0	1840.7	689.1	634.2	643.6	621.1	567.0	515.7	490.9	487.3
55°	5478.2	4861.7	1879.0	626.9	580.1	598.6	590.9	546.4	500.0	477.0	473.8
57.5°	6217.3	5359.3	1802.5	576.5	531.9	560.8	567.5	533.3	491.9	471.1	467.5
60°	6682.5	5559.8	1601.6	529.2	493.6	530.6	554.0	529.7	495.0	493.2	490.5
62.5°	6903.2	5542.1	1300.3	491.9	469.8	517.5	563.9	549.9	531.0	547.2	548.6
65°	6804.2	5277.3	968.3	467.1	452.6	522.5	593.6	588.2	541.4	557.6	559.9
67.5°	6152.0	4645.4	717.0	445.5	433.7	536.4	647.7	600.8	521.1	532.8	525.6
70°	4972.4	3682.9	553.1	421.2	414.4	534.6	672.0	593.2	499.0	501.7	482.4
72.5°	3428.9	2511.5	449.9	398.6	386.4	487.3	654.9	574.3	480.6	459.8	434.2
75°	1864.7	1348.0	382.4	375.2	337.3	427.9	623.4	560.8	463.9	436.4	422.0
77.5°	733.7	559.4	331.9	343.2	295.0	377.9	588.2	535.1	440.9	404.9	397.7
80°	299.5	285.5	275.2	296.8	253.6	330.6	545.9	504.9	413.4	375.6	361.3
82.5°	169.8	177.5	214.0	234.2	205.9	304.4	525.6	480.6	380.6	336.5	319.3
85°	86.9	104.1	149.0	168.0	151.4	259.0	484.2	420.7	305.4	257.7	259.0
87.5°	41.9	58.1	94.2	105.4	98.2	187.3	361.6	304.9	237.8	188.3	182.4
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)