

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: P382905

Luminaire Tested: **GLEON-SA2C-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382905
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-SA2C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13387.3 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

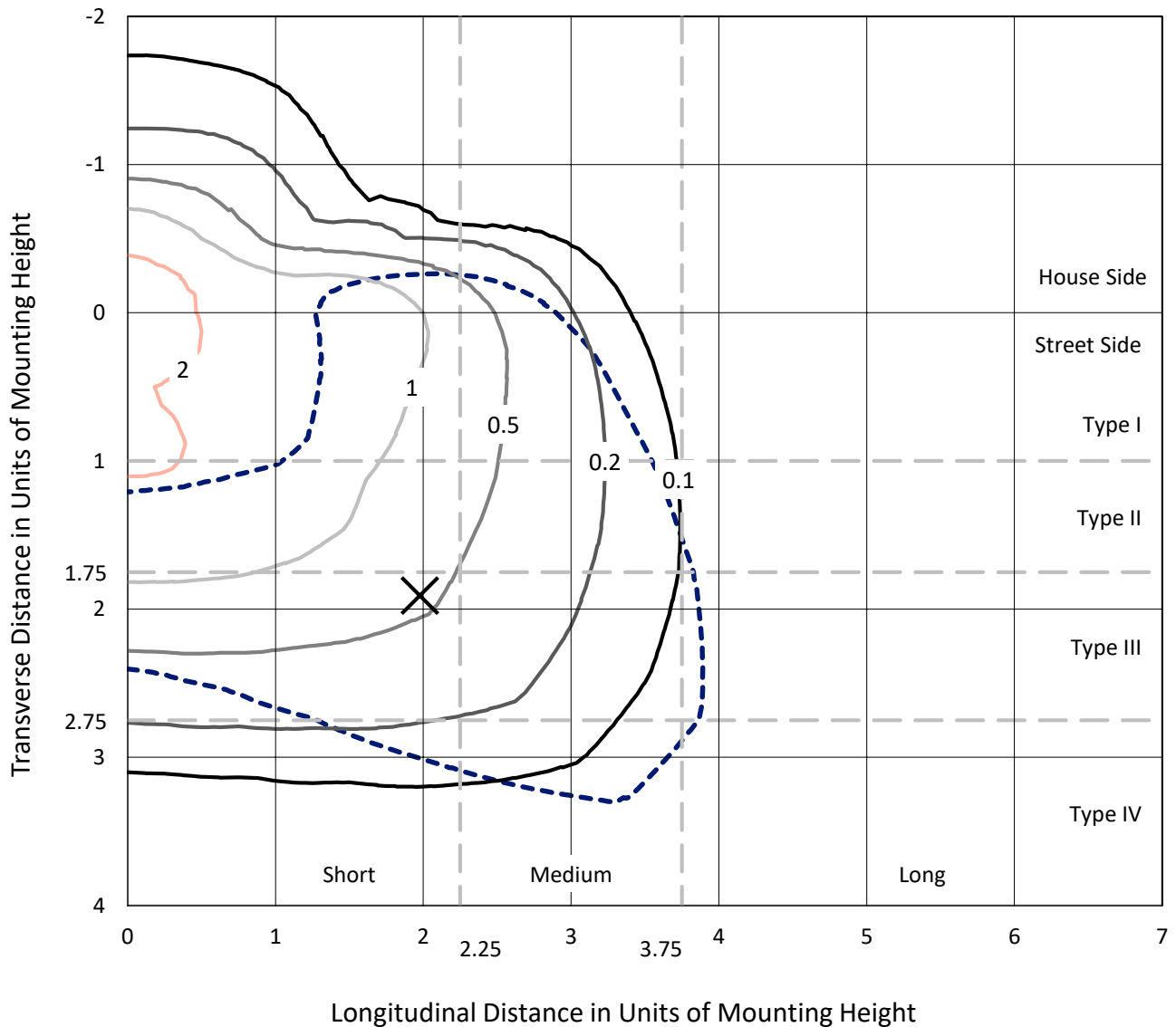
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

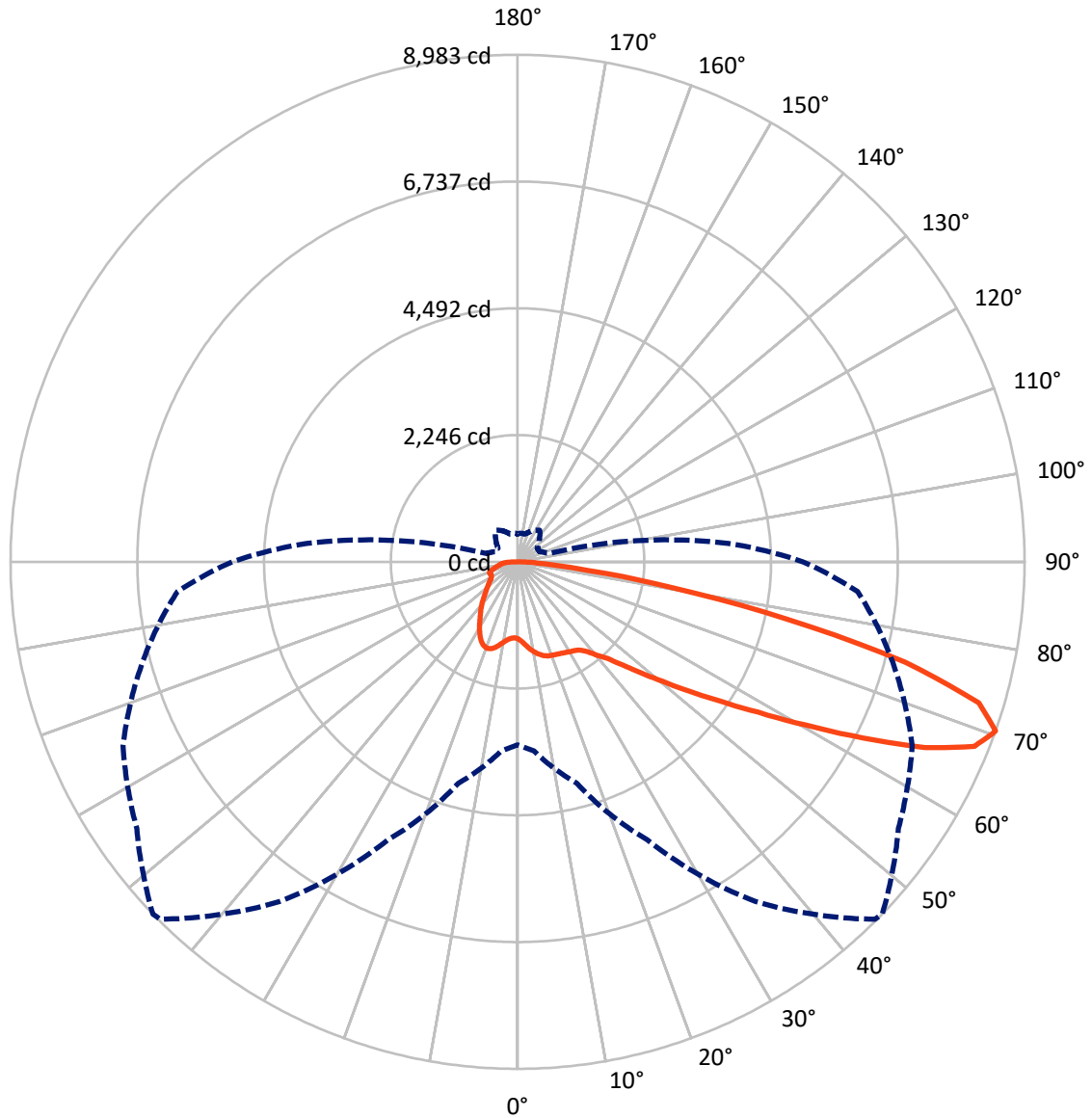
✕ Max cd
 - - - 1/2 Max cd



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	3068.3	0.0	3068.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10318.9	0.0	10318.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	13387.3	0.0	13387.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	1.0
10°-20°	463.2	3.5
20°-30°	772.4	5.8
30°-40°	1096.1	8.2
40°-50°	1612.3	12.0
50°-60°	2730.4	20.4
60°-70°	3875.7	29.0
70°-80°	2354.5	17.6
80°-90°	343.6	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°	13387.3	100.0
0°-180°	13387.3	100.0

Coefficient of Utilization



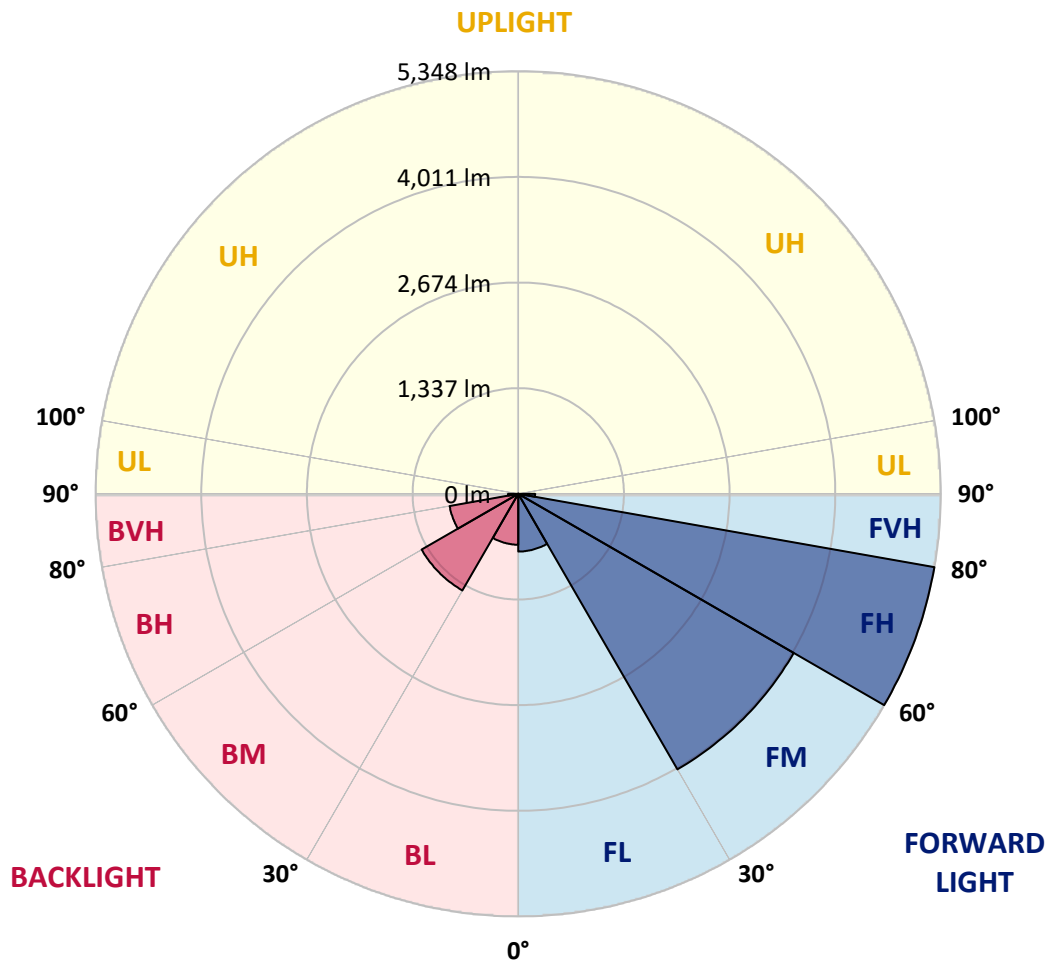
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.5	5.5			
FM (30°-60°)	4026.3	30.1			
FH (60°-80°)	5348.1	39.9			G3/7500
FVH (80°-90°)	214.0	1.6			G2/225
BL (0°-30°)	644.2	4.8	B2/1000		
BM (30°-60°)	1412.4	10.6	B2/2500		
BH (60°-80°)	882.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	129.6	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°	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9
2.5°	1432.2	1433.1	1435.0	1430.3	1417.5	1413.8	1412.5	1399.2	1390.4	1377.7	1366.7
5°	1546.7	1547.6	1544.9	1532.0	1503.6	1482.6	1480.7	1450.5	1423.0	1393.7	1371.7
7.5°	1666.3	1667.7	1659.0	1634.7	1594.8	1558.2	1555.9	1514.6	1473.0	1428.5	1395.6
10°	1772.1	1766.6	1752.4	1718.5	1671.3	1626.4	1624.6	1581.5	1533.4	1479.9	1435.8
12.5°	1842.7	1838.0	1819.8	1778.5	1726.7	1685.5	1681.8	1642.0	1595.3	1536.6	1484.0
15°	1881.6	1884.8	1860.1	1813.4	1763.0	1728.1	1724.9	1696.5	1654.8	1595.7	1535.3
17.5°	1886.7	1889.4	1865.6	1819.3	1778.0	1754.2	1752.9	1734.1	1703.8	1647.1	1583.8
20°	1857.3	1859.2	1839.4	1801.4	1774.4	1767.1	1766.6	1758.4	1735.9	1685.5	1624.2
22.5°	1814.7	1816.1	1801.9	1774.4	1765.3	1776.6	1779.9	1776.6	1760.6	1713.5	1655.7
25°	1804.2	1803.3	1788.6	1760.6	1768.4	1792.8	1796.9	1798.3	1787.3	1746.0	1696.1
27.5°	1855.0	1851.8	1823.9	1779.0	1784.0	1813.4	1818.8	1832.2	1825.3	1789.0	1741.9
30°	2002.1	1996.6	1939.3	1848.7	1823.9	1839.0	1845.9	1866.9	1868.3	1838.0	1802.8
32.5°	2250.4	2243.5	2140.9	1978.7	1891.2	1865.1	1871.6	1903.2	1920.1	1896.7	1858.7
35°	2564.3	2556.4	2421.7	2200.0	2003.9	1915.1	1919.6	1944.8	1978.7	1945.7	1895.3
37.5°	2891.3	2872.6	2742.9	2460.2	2183.1	2021.8	2021.8	2025.0	2041.0	1972.3	1938.5
40°	3216.6	3197.8	3080.5	2766.3	2414.9	2190.0	2179.4	2108.4	2095.5	2036.5	2025.0
42.5°	3519.0	3513.5	3444.3	3112.2	2687.0	2355.3	2340.7	2220.2	2223.0	2186.2	2186.7
45°	3840.7	3840.7	3784.3	3461.3	3004.1	2621.1	2606.4	2429.1	2456.6	2439.6	2480.4
47.5°	4103.2	4111.4	4103.7	3825.0	3372.9	2958.7	2932.1	2718.6	2795.6	2853.8	2972.5
50°	4371.2	4384.0	4385.4	4224.1	3818.7	3360.0	3329.8	3103.0	3274.9	3441.6	3674.8
52.5°	4760.1	4789.0	4674.0	4622.2	4364.8	3836.5	3806.8	3597.4	3884.2	4118.3	4520.1
55°	5120.7	5095.5	5013.5	5045.5	4949.3	4378.9	4356.5	4172.8	4563.1	4867.3	5389.2
57.5°	5315.9	5314.0	5396.5	5534.0	5579.8	5047.9	5029.1	4850.4	5328.7	5557.3	6205.1
60°	5544.9	5548.1	5752.5	6064.5	6253.2	5880.8	5872.5	5736.9	6072.3	6201.5	6845.2
62.5°	5577.0	5634.7	5986.6	6523.5	6883.7	6853.9	6872.2	6535.5	6737.5	6715.5	7323.0
65°	5208.2	5284.3	5921.1	6662.3	7510.4	7918.2	7935.1	7338.5	7262.1	7154.8	7493.9
67.5°	4452.2	4565.0	5256.7	6360.4	7717.0	8704.8	8728.6	7961.2	7697.3	7303.8	7082.5
70°	3240.0	3365.1	4061.5	5432.2	7348.7	8956.3	8983.3	8236.6	7713.8	6879.9	6046.1
72.5°	1957.2	2055.3	2629.3	3999.1	6202.3	8498.1	8546.3	7887.4	7042.6	5827.6	4464.6
75°	859.4	923.6	1271.4	2304.5	4440.3	7031.1	7091.2	6751.2	5722.2	4235.1	2638.9
77.5°	366.1	384.4	521.4	1001.0	2510.1	4804.5	4887.1	4932.8	3882.3	2304.5	1115.2
80°	228.1	235.5	295.0	453.1	1174.7	2698.5	2787.4	2902.3	1927.8	847.1	389.4
82.5°	138.8	147.1	196.1	274.0	611.7	1223.2	1265.9	1346.9	748.1	366.1	201.6
85°	83.4	89.3	120.1	173.2	348.2	481.1	480.6	531.4	352.3	235.5	106.3
87.5°	39.9	44.4	64.2	89.8	175.5	180.5	169.1	191.5	214.0	154.4	53.6
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°	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9	1363.9
2.5°	1362.9	1361.2	1355.2	1350.7	1349.7	1346.9	1344.7	1346.0	1347.9	1348.3	1348.3
5°	1362.5	1357.5	1349.7	1346.5	1350.7	1356.1	1362.9	1372.2	1377.7	1381.8	1384.6
7.5°	1384.6	1374.9	1366.2	1364.3	1372.6	1387.3	1402.8	1422.1	1435.3	1444.6	1446.3
10°	1421.2	1409.2	1400.6	1402.4	1417.1	1438.1	1460.1	1484.9	1505.0	1517.4	1518.3
12.5°	1463.3	1451.9	1443.6	1451.4	1475.7	1501.4	1524.3	1545.8	1564.1	1576.5	1576.5
15°	1511.9	1503.6	1494.0	1511.9	1544.9	1567.8	1577.4	1587.9	1598.0	1607.2	1605.3
17.5°	1558.6	1550.8	1545.8	1566.9	1601.2	1611.8	1605.3	1597.5	1597.5	1602.6	1603.5
20°	1598.9	1592.0	1595.3	1615.9	1633.7	1622.8	1598.9	1574.2	1564.1	1566.9	1569.6
22.5°	1634.2	1631.0	1640.6	1650.2	1637.4	1598.9	1554.9	1521.5	1509.1	1508.2	1509.1
25°	1675.5	1675.0	1686.9	1669.5	1612.7	1541.6	1482.6	1450.0	1443.2	1448.6	1457.8
27.5°	1726.7	1731.7	1737.7	1674.1	1562.3	1455.1	1395.1	1372.6	1379.4	1392.8	1401.5
30°	1792.3	1806.0	1793.2	1662.6	1489.9	1356.1	1298.9	1292.4	1311.2	1330.0	1339.2
32.5°	1855.9	1877.4	1846.3	1632.8	1396.4	1251.2	1206.7	1205.0	1227.9	1246.1	1259.0
35°	1907.3	1949.9	1886.2	1573.8	1288.3	1154.6	1122.0	1109.7	1117.9	1139.4	1154.1
37.5°	1974.1	2045.1	1913.7	1483.5	1171.0	1074.8	1036.8	1008.4	1001.0	1009.8	1017.1
40°	2096.4	2190.4	1926.5	1357.5	1056.5	995.1	956.6	914.9	886.1	864.9	865.4
42.5°	2296.3	2379.6	1918.2	1204.5	950.6	917.2	873.7	825.5	778.9	731.2	727.5
45°	2620.6	2660.9	1893.6	1042.3	857.7	835.7	794.9	746.8	684.5	630.4	625.3
47.5°	3139.7	3050.4	1855.0	900.7	775.6	766.5	728.9	673.5	607.5	564.0	560.3
50°	3847.5	3612.4	1836.3	788.0	703.2	706.0	675.3	616.7	554.4	522.3	518.6
52.5°	4694.2	4267.1	1872.4	701.0	645.1	654.7	631.8	576.8	524.6	499.4	495.7
55°	5572.4	4945.2	1911.3	637.7	590.1	608.9	601.1	555.8	508.5	485.1	482.0
57.5°	6324.3	5451.5	1833.5	586.4	541.0	570.4	577.3	542.4	500.3	479.2	475.6
60°	6797.5	5655.3	1629.2	538.3	502.1	539.7	563.5	538.8	503.5	501.6	498.9
62.5°	7022.0	5637.4	1322.7	500.3	477.9	526.4	573.6	559.4	540.1	556.7	558.0
65°	6921.2	5368.1	985.0	475.1	460.5	531.4	603.8	598.3	550.7	567.2	569.5
67.5°	6257.9	4725.3	729.4	453.1	441.2	545.6	658.8	611.2	530.1	542.0	534.6
70°	5057.9	3746.2	562.6	428.3	421.5	543.8	683.6	603.4	507.6	510.4	490.6
72.5°	3487.9	2554.6	457.7	405.5	393.1	495.7	666.1	584.2	488.9	467.7	441.6
75°	1896.7	1371.2	388.9	381.7	343.2	435.2	634.1	570.4	471.9	444.0	429.3
77.5°	746.4	569.0	337.7	349.1	300.1	384.4	598.3	544.3	448.5	411.8	404.6
80°	304.7	290.5	279.9	301.9	257.9	336.3	555.3	513.6	420.6	382.1	367.4
82.5°	172.7	180.5	217.6	238.2	209.4	309.7	534.6	488.9	387.2	342.3	324.8
85°	88.4	105.8	151.7	170.8	153.9	263.4	492.5	428.0	310.6	262.0	263.4
87.5°	42.6	59.1	95.8	107.2	99.9	190.6	367.9	310.2	241.9	191.5	185.6
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)