

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: P191580

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-T4W-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13571.5 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

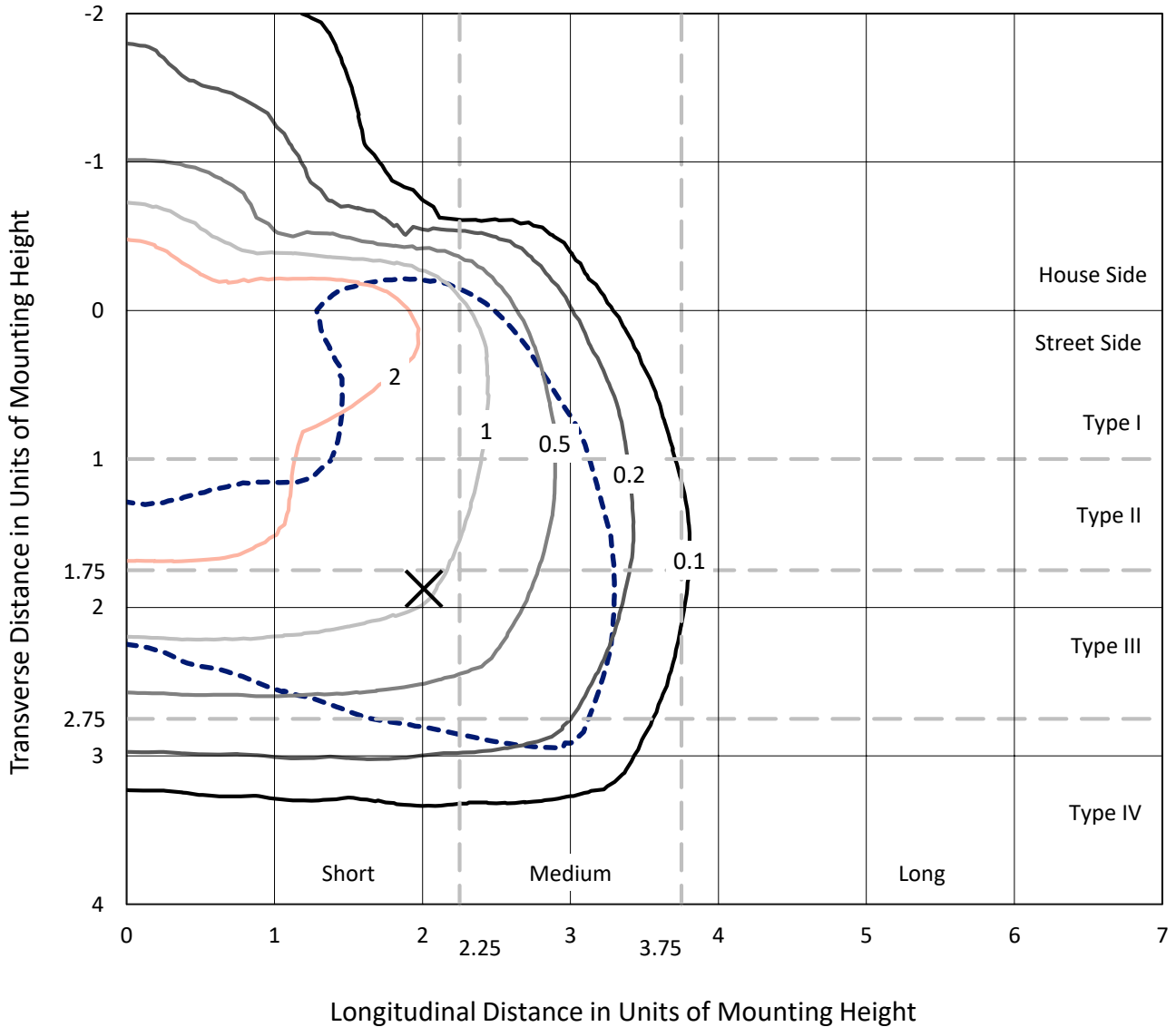
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

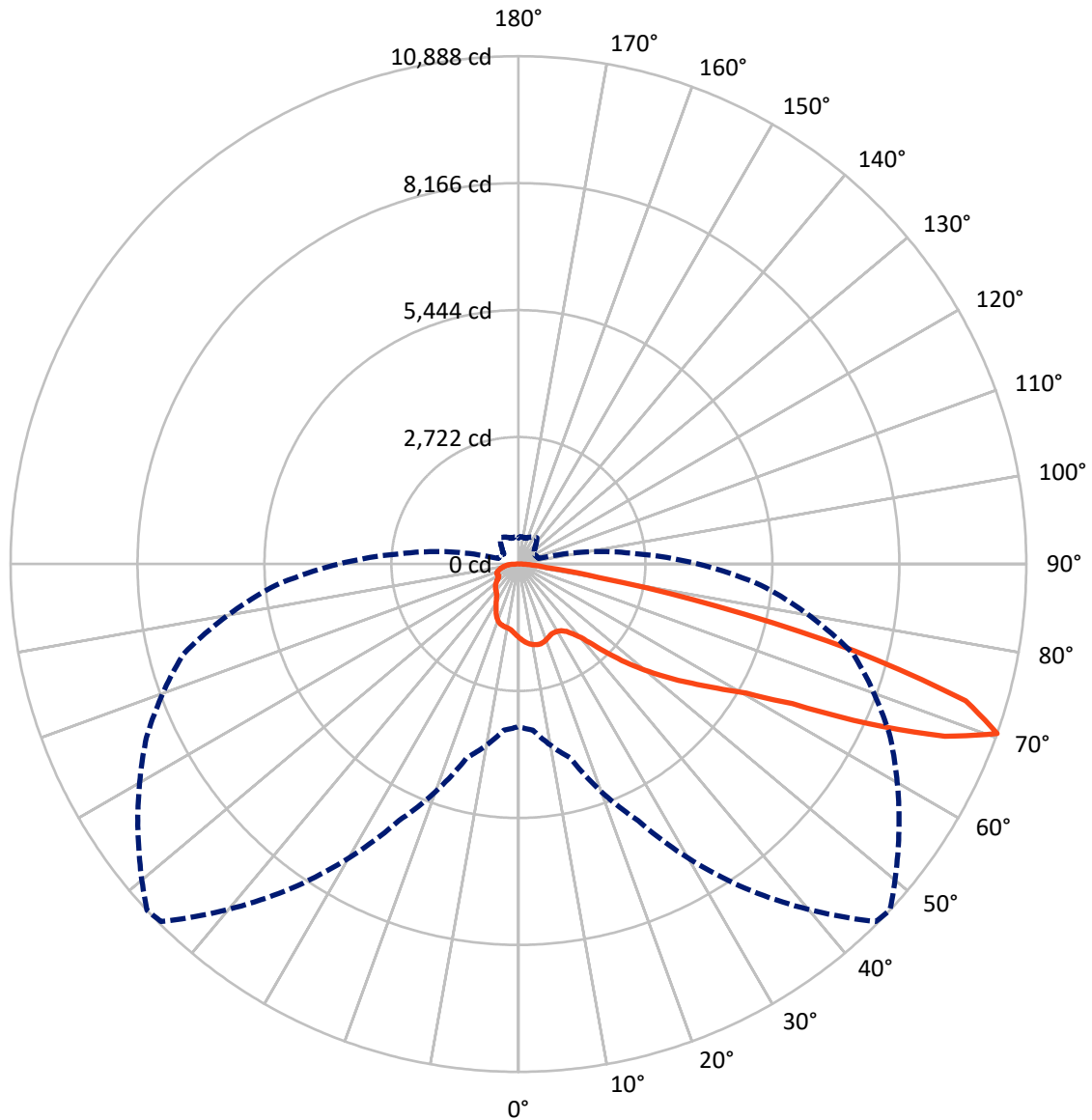
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2831.3	0.0	2831.3
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	10740.2	0.0	10740.2
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	13571.5	0.0	13571.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	1.1
10°-20°	442.7	3.3
20°-30°	653.7	4.8
30°-40°	950.1	7.0
40°-50°	1709.9	12.6
50°-60°	2962.2	21.8
60°-70°	4227.9	31.2
70°-80°	2170.4	16.0
80°-90°	303.9	2.2
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°	13571.5	100.0
0°-180°	13571.5	100.0

**Coefficient of Utilization**



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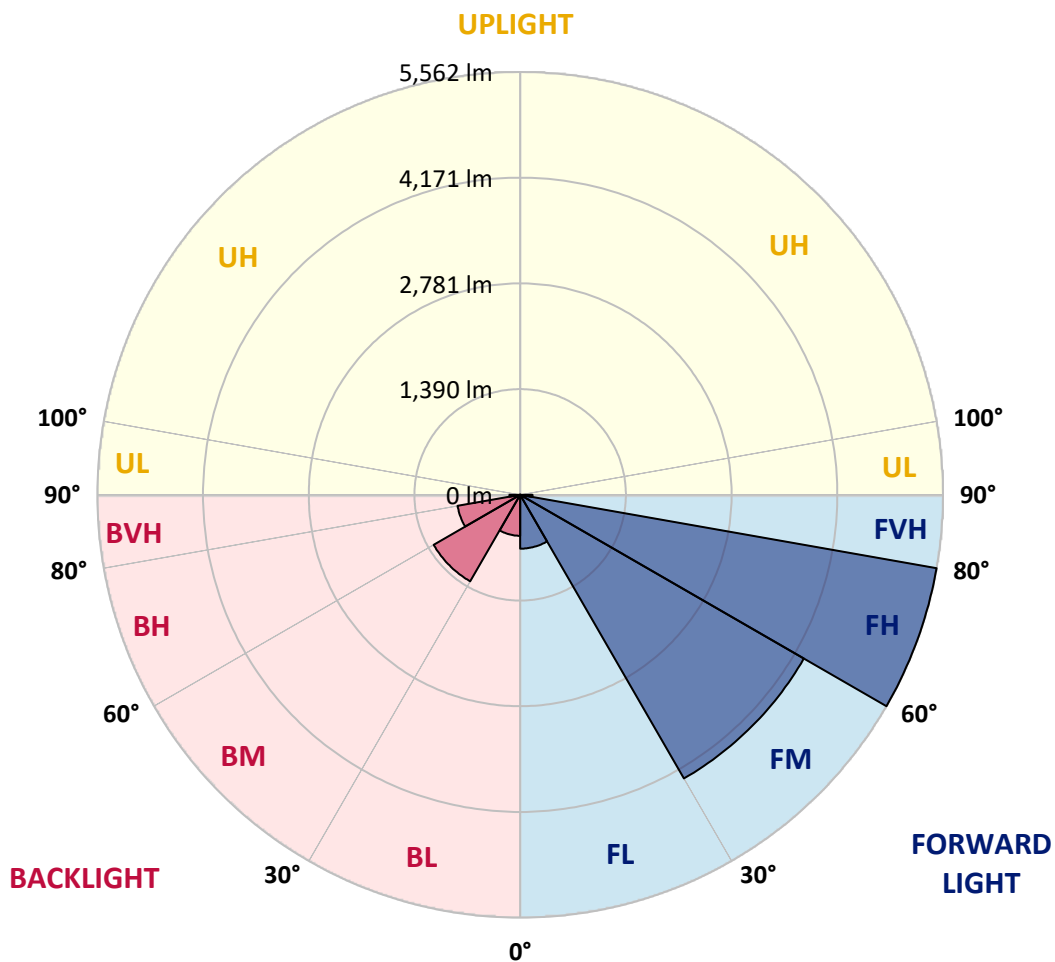
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	708.1	5.2			
FM	(30°-60°)	4308.0	31.7			
FH	(60°-80°)	5562.0	41.0			G3/7500
FVH	(80°-90°)	162.1	1.2			G2/225
BL	(0°-30°)	539.1	4.0	B2/1000		
BM	(30°-60°)	1314.2	9.7	B2/2500		
BH	(60°-80°)	836.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	141.7	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°	47°	55°	65°	75°	85°
0°	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7
2.5°	1667.1	1663.8	1662.5	1659.8	1656.6	1640.1	1636.8	1624.9	1608.4	1591.2	1573.4
5°	1776.8	1776.0	1768.8	1755.6	1734.5	1698.2	1689.6	1660.6	1621.6	1583.9	1546.3
7.5°	1873.1	1867.2	1853.4	1826.9	1790.0	1740.4	1728.6	1688.3	1634.8	1583.3	1532.5
10°	1943.8	1940.5	1910.2	1873.8	1825.7	1770.8	1756.9	1712.0	1653.3	1587.9	1524.5
12.5°	1984.1	1977.5	1942.5	1898.9	1841.4	1788.0	1774.1	1728.6	1662.5	1587.9	1513.4
15°	1981.5	1976.9	1941.9	1894.3	1836.2	1789.3	1776.8	1731.2	1660.6	1581.3	1498.8
17.5°	1928.6	1930.6	1900.8	1854.0	1806.4	1770.8	1759.6	1717.3	1647.4	1568.1	1481.6
20°	1836.2	1845.4	1825.7	1784.0	1757.6	1733.2	1725.9	1690.2	1626.9	1549.0	1463.1
22.5°	1743.7	1752.3	1744.4	1709.5	1705.5	1690.9	1686.9	1661.2	1609.0	1537.1	1451.9
25°	1675.7	1683.7	1682.3	1652.0	1663.8	1663.2	1659.8	1647.4	1605.1	1537.1	1453.9
27.5°	1657.3	1659.8	1657.3	1629.6	1646.0	1659.2	1656.6	1654.6	1617.0	1556.2	1479.0
30°	1720.6	1716.7	1696.2	1640.1	1655.2	1673.8	1671.1	1672.4	1652.6	1606.4	1535.1
32.5°	1973.5	1955.7	1891.0	1733.2	1692.9	1702.8	1704.1	1725.9	1729.2	1683.7	1622.3
35°	2351.9	2332.0	2248.1	1982.8	1809.8	1775.4	1775.4	1808.5	1828.2	1794.6	1757.6
37.5°	2752.7	2730.9	2686.0	2328.7	2055.4	1901.6	1898.3	1921.3	1949.7	1957.6	1966.9
40°	3208.2	3185.1	3197.6	2717.0	2398.1	2120.1	2073.2	2056.7	2133.3	2184.1	2258.1
42.5°	3706.7	3696.1	3700.7	3149.5	2788.3	2446.9	2380.2	2295.1	2387.5	2478.0	2633.1
45°	4168.2	4177.4	4172.8	3612.2	3222.7	2845.7	2775.1	2610.0	2700.5	2855.6	3108.5
47.5°	4572.3	4534.0	4593.5	4118.0	3709.3	3292.1	3204.9	2983.7	3075.5	3267.0	3694.8
50°	5062.9	5057.6	4970.4	4792.8	4297.6	3740.3	3626.2	3369.9	3512.6	3778.7	4433.7
52.5°	5578.6	5482.8	5402.9	5317.7	4921.5	4199.9	4059.9	3754.8	4026.2	4361.0	5334.2
55°	5684.1	5641.3	5740.3	5883.6	5523.0	4677.2	4514.2	4237.6	4604.6	5026.6	6372.8
57.5°	5910.0	5909.3	6114.0	6369.5	6142.4	5183.7	5019.3	4820.6	5255.0	5789.2	7475.4
60°	6062.5	6105.4	6485.7	6981.5	6750.5	5768.6	5617.4	5493.3	5994.5	6641.5	8502.8
62.5°	6142.4	6200.5	6719.5	7229.8	7610.1	6742.6	6591.4	6412.5	6972.9	7576.5	9103.6
65°	5810.3	5924.5	6683.1	7444.4	8362.8	8321.2	8253.3	7938.9	8196.4	8315.3	8886.4
67.5°	4891.2	5008.1	5891.5	7244.3	8900.3	9843.8	9858.3	9321.5	8949.2	8378.7	7471.4
70°	3484.9	3576.6	4307.5	6073.7	8490.9	10838.8	10888.3	9958.6	8799.2	7430.5	5220.0
72.5°	1654.6	1710.7	2402.7	3953.0	6738.0	9930.9	10026.7	9145.3	7482.1	5501.2	2847.7
75°	608.1	625.2	812.1	1681.6	3908.1	7323.6	7436.4	6555.7	4959.9	2738.7	1084.8
77.5°	364.5	375.7	455.6	709.8	1537.1	4186.0	4353.1	3565.4	2167.6	1019.5	533.5
80°	254.8	262.8	326.8	441.7	726.3	1595.2	1743.7	1455.2	863.6	645.1	388.2
82.5°	172.4	176.3	229.8	298.4	482.6	569.8	614.7	647.0	582.4	480.0	246.3
85°	112.9	116.8	155.8	196.7	307.0	294.5	301.1	380.9	425.2	326.1	136.7
87.5°	64.8	67.3	93.8	105.0	150.6	124.8	126.1	200.7	272.0	219.8	83.2
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°	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7
2.5°	1568.8	1560.2	1541.1	1529.1	1518.0	1515.3	1510.7	1510.0	1509.4	1509.4	1507.3
5°	1533.8	1519.3	1489.5	1473.0	1459.1	1457.8	1457.2	1460.5	1461.8	1463.1	1461.2
7.5°	1511.3	1491.6	1454.5	1430.8	1414.2	1410.3	1416.9	1432.1	1442.1	1445.9	1444.0
10°	1497.5	1473.0	1430.1	1404.4	1390.5	1388.6	1397.1	1414.9	1435.4	1443.3	1442.7
12.5°	1481.6	1453.9	1408.3	1381.3	1373.3	1377.3	1388.6	1405.0	1426.2	1438.7	1439.4
15°	1465.8	1433.5	1386.5	1362.8	1359.5	1364.7	1375.4	1387.8	1404.4	1416.9	1418.2
17.5°	1446.7	1413.0	1366.0	1341.6	1339.0	1341.6	1342.3	1348.9	1359.5	1371.4	1374.6
20°	1426.2	1391.8	1342.9	1318.6	1306.6	1296.1	1284.2	1285.5	1288.8	1300.7	1303.3
22.5°	1411.7	1377.3	1325.1	1291.5	1259.8	1228.1	1204.3	1201.0	1202.4	1212.2	1215.6
25°	1413.0	1376.7	1320.5	1262.4	1193.1	1142.2	1110.5	1105.3	1104.6	1111.8	1116.4
27.5°	1438.7	1402.4	1337.7	1232.7	1120.4	1045.1	1011.5	1007.5	1002.3	1004.2	1009.6
30°	1496.2	1462.5	1379.2	1202.4	1041.9	950.1	915.1	911.1	903.9	900.6	904.6
32.5°	1589.9	1562.1	1440.0	1173.3	963.3	868.9	833.3	824.7	820.0	816.1	819.4
35°	1745.8	1733.8	1521.2	1141.6	894.0	806.2	773.9	760.7	754.0	761.3	766.6
37.5°	1990.0	1996.6	1627.5	1092.1	840.6	764.6	737.5	722.3	712.4	718.3	724.4
40°	2336.0	2340.6	1745.1	1022.0	794.3	740.1	711.1	697.2	683.3	672.8	672.2
42.5°	2790.2	2743.3	1860.6	946.1	740.8	725.0	692.6	675.5	654.3	625.2	619.3
45°	3329.0	3164.6	1948.4	859.0	680.8	706.4	672.2	648.3	615.4	583.7	580.3
47.5°	3949.6	3616.8	1991.4	768.5	624.6	679.4	647.0	609.4	567.8	552.0	550.0
50°	4707.6	4153.7	2011.8	680.8	575.7	643.7	610.7	566.5	531.5	528.3	526.2
52.5°	5570.6	4799.4	2018.4	608.8	535.5	597.5	581.0	538.1	510.4	513.0	513.0
55°	6473.8	5466.2	1928.6	556.6	498.5	550.0	561.2	526.9	503.8	514.3	518.3
57.5°	7303.2	6057.2	1646.0	516.3	463.5	513.7	553.9	537.5	521.6	564.6	567.1
60°	7939.6	6406.4	1229.4	480.0	437.7	501.1	573.1	577.8	581.6	684.0	697.9
62.5°	8072.9	6290.2	845.2	451.6	425.9	511.7	608.1	608.8	604.2	675.5	684.0
65°	7460.9	5555.4	614.7	435.8	415.9	530.8	637.8	623.9	593.6	647.7	631.9
67.5°	5925.1	4185.4	511.7	423.9	401.4	529.5	669.5	637.8	587.6	634.5	608.8
70°	3846.0	2530.8	455.6	414.0	384.2	504.4	688.0	636.5	570.5	590.2	559.9
72.5°	1876.5	1131.7	418.0	399.5	366.4	469.4	687.3	624.6	552.6	551.3	534.8
75°	734.2	518.3	383.6	377.7	336.0	429.8	668.8	607.4	531.5	510.4	504.4
77.5°	429.8	369.7	340.0	345.3	299.7	390.3	641.8	577.8	502.5	477.4	470.8
80°	312.9	276.6	289.9	298.4	256.1	350.6	605.5	541.4	470.1	482.6	473.4
82.5°	200.7	178.3	235.1	243.7	213.3	310.4	565.8	503.1	424.5	385.6	376.3
85°	102.3	112.9	174.9	185.6	164.4	254.8	517.6	452.2	373.1	320.9	326.1
87.5°	57.5	77.2	111.6	124.8	116.2	196.1	419.9	373.1	304.3	247.6	217.9
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)