

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: P319157

Luminaire Tested: **GLEON-SA3B-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319157  
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-SA3B-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12735 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

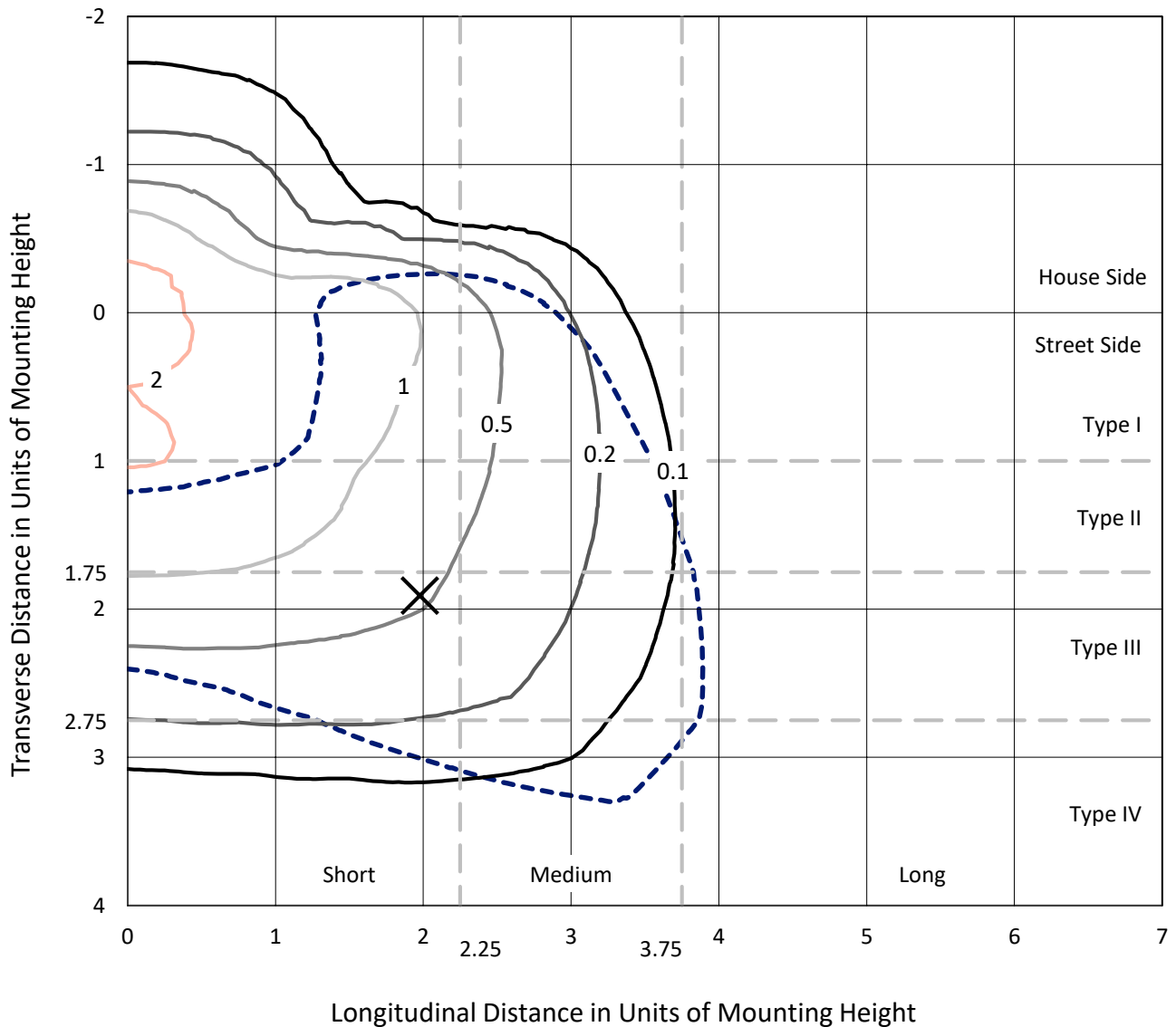
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

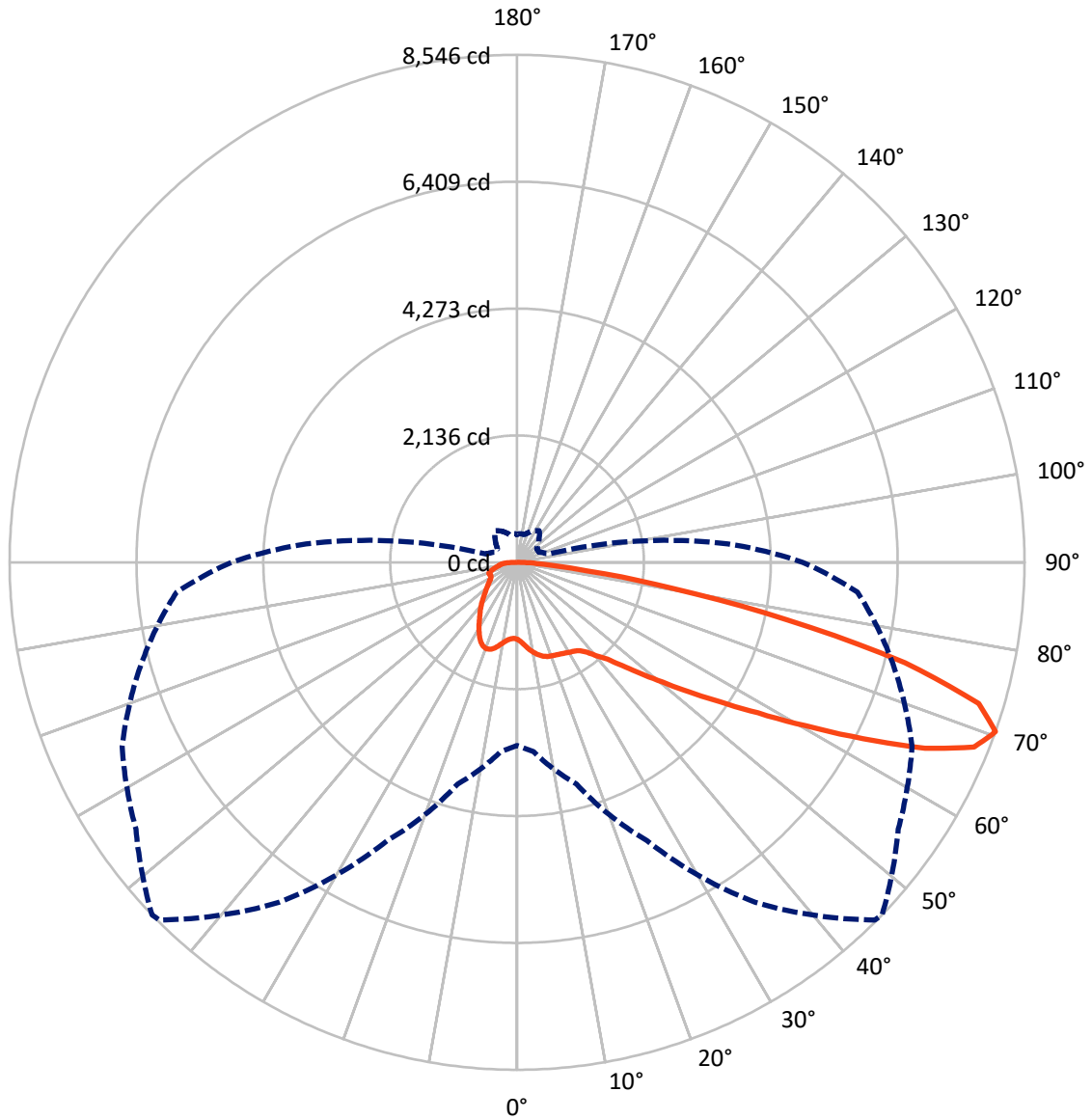
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type 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
<b>House Side</b>	Lumens	2918.8	0.0	2918.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	9816.2	0.0	9816.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	12735.0	0.0	12735.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.3	1.0
10°-20°	440.7	3.5
20°-30°	734.8	5.8
30°-40°	1042.7	8.2
40°-50°	1533.7	12.0
50°-60°	2597.3	20.4
60°-70°	3686.9	29.0
70°-80°	2239.8	17.6
80°-90°	326.9	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°	12735.0	100.0
0°-180°	12735.0	100.0

**Coefficient of Utilization**



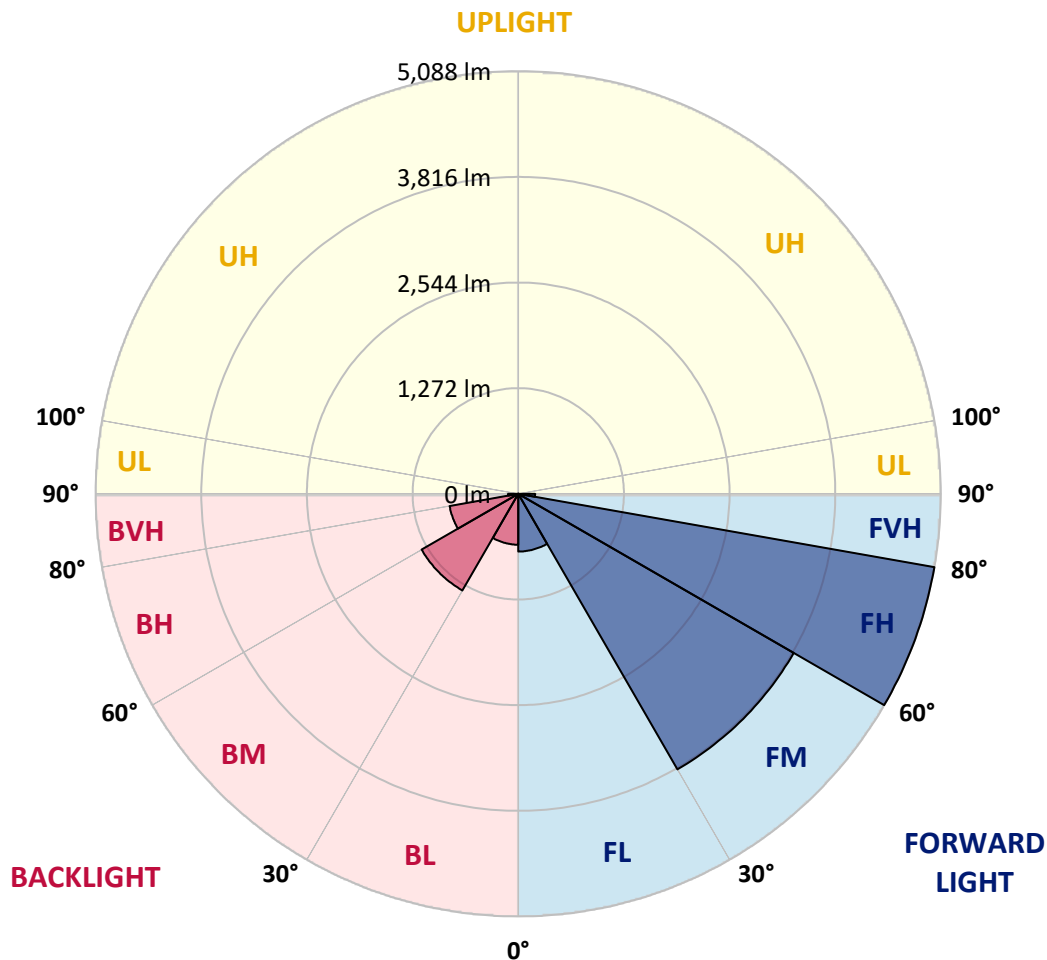
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.9	5.5			
FM (30°-60°)	3830.1	30.1			
FH (60°-80°)	5087.6	39.9			G3/7500
FVH (80°-90°)	203.6	1.6			G2/225
BL (0°-30°)	612.8	4.8	B2/1000		
BM (30°-60°)	1343.6	10.6	B2/2500		
BH (60°-80°)	839.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	123.3	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°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4
2.5°	1362.4	1363.3	1365.0	1360.6	1348.4	1345.0	1343.6	1331.0	1322.7	1310.5	1300.1
5°	1471.3	1472.2	1469.6	1457.4	1430.4	1410.3	1408.6	1379.8	1353.7	1325.8	1304.9
7.5°	1585.1	1586.4	1578.1	1555.0	1517.1	1482.2	1480.1	1440.8	1401.2	1358.9	1327.5
10°	1685.8	1680.5	1667.0	1634.8	1589.9	1547.2	1545.4	1504.5	1458.7	1407.7	1365.9
12.5°	1752.9	1748.5	1731.1	1691.9	1642.6	1603.4	1599.9	1562.0	1517.5	1461.8	1411.6
15°	1789.9	1793.0	1769.4	1725.0	1677.0	1643.9	1640.9	1613.9	1574.2	1518.0	1460.4
17.5°	1794.7	1797.3	1774.7	1730.7	1691.4	1668.8	1667.5	1649.6	1620.8	1566.8	1506.6
20°	1766.8	1768.6	1749.8	1713.7	1687.9	1681.0	1680.5	1672.7	1651.3	1603.4	1545.0
22.5°	1726.3	1727.6	1714.1	1687.9	1679.2	1690.1	1693.2	1690.1	1674.9	1630.0	1575.1
25°	1716.3	1715.4	1701.5	1674.9	1682.3	1705.4	1709.3	1710.6	1700.1	1660.9	1613.4
27.5°	1764.7	1761.6	1735.0	1692.3	1697.1	1725.0	1730.2	1742.9	1736.3	1701.9	1657.0
30°	1904.5	1899.3	1844.8	1758.5	1735.0	1749.4	1755.9	1776.0	1777.3	1748.5	1715.0
32.5°	2140.8	2134.2	2036.6	1882.3	1799.1	1774.2	1780.3	1810.4	1826.5	1804.3	1768.1
35°	2439.3	2431.9	2303.8	2092.8	1906.3	1821.7	1826.1	1850.1	1882.3	1850.9	1803.0
37.5°	2750.5	2732.6	2609.3	2340.4	2076.7	1923.3	1923.3	1926.3	1941.6	1876.2	1844.0
40°	3059.9	3042.0	2930.5	2631.5	2297.2	2083.2	2073.2	2005.7	1993.5	1937.2	1926.3
42.5°	3347.6	3342.3	3276.5	2960.6	2556.1	2240.6	2226.6	2112.0	2114.6	2079.8	2080.2
45°	3653.5	3653.5	3599.9	3292.6	2857.7	2493.3	2479.4	2310.7	2336.9	2320.8	2359.5
47.5°	3903.2	3911.1	3903.7	3638.7	3208.5	2814.5	2789.3	2586.2	2659.4	2714.7	2827.6
50°	4158.2	4170.4	4171.7	4018.3	3632.6	3196.3	3167.6	2951.8	3115.3	3273.9	3495.7
52.5°	4528.2	4555.7	4446.3	4397.0	4152.1	3649.6	3621.3	3422.1	3694.9	3917.6	4299.8
55°	4871.2	4847.2	4769.2	4799.7	4708.2	4165.6	4144.2	3969.5	4340.8	4630.2	5126.6
57.5°	5056.9	5055.1	5133.6	5264.3	5307.9	4801.9	4784.0	4614.1	5069.1	5286.5	5902.8
60°	5274.8	5277.8	5472.2	5769.0	5948.6	5594.2	5586.4	5457.4	5776.4	5899.3	6511.6
62.5°	5305.3	5360.2	5694.9	6205.7	6548.3	6519.9	6537.4	6217.0	6409.2	6388.3	6966.2
65°	4954.4	5026.8	5632.6	6337.7	7144.5	7532.3	7548.5	6981.0	6908.2	6806.3	7128.8
67.5°	4235.3	4342.5	5000.6	6050.5	7341.0	8280.7	8303.3	7573.3	7322.3	6947.9	6737.4
70°	3082.1	3201.1	3863.6	5167.6	6990.6	8519.9	8545.6	7835.2	7338.0	6544.8	5751.6
72.5°	1861.8	1955.1	2501.2	3804.3	5900.2	8084.1	8129.9	7503.1	6699.5	5543.7	4247.1
75°	817.6	878.6	1209.4	2192.2	4224.0	6688.6	6745.7	6422.3	5443.4	4028.8	2510.3
77.5°	348.2	365.7	496.0	952.3	2387.9	4570.5	4648.9	4692.5	3693.2	2192.2	1060.8
80°	217.0	224.0	280.7	431.0	1117.5	2567.0	2651.6	2760.9	1833.9	805.8	370.5
82.5°	132.1	139.9	186.5	260.6	581.8	1163.6	1204.2	1281.3	711.7	348.2	191.8
85°	79.3	85.0	114.2	164.7	331.2	457.6	457.2	505.6	335.1	224.0	101.1
87.5°	37.9	42.3	61.0	85.4	166.9	171.7	160.8	182.2	203.5	146.9	51.0
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°	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4	1297.4
2.5°	1296.6	1294.8	1289.2	1284.8	1283.9	1281.3	1279.1	1280.5	1282.2	1282.6	1282.6
5°	1296.1	1291.3	1283.9	1280.9	1284.8	1290.0	1296.6	1305.3	1310.5	1314.4	1317.1
7.5°	1317.1	1307.9	1299.6	1297.9	1305.7	1319.7	1334.5	1352.8	1365.4	1374.2	1375.9
10°	1351.9	1340.6	1332.3	1334.1	1348.0	1368.1	1389.0	1412.5	1431.7	1443.4	1444.3
12.5°	1392.0	1381.1	1373.3	1380.7	1403.8	1428.2	1450.0	1470.5	1487.9	1499.7	1499.7
15°	1438.2	1430.4	1421.2	1438.2	1469.6	1491.4	1500.5	1510.6	1520.2	1528.9	1527.1
17.5°	1482.7	1475.3	1470.5	1490.5	1523.2	1533.2	1527.1	1519.7	1519.7	1524.5	1525.4
20°	1521.0	1514.5	1517.5	1537.2	1554.1	1543.7	1521.0	1497.5	1487.9	1490.5	1493.1
22.5°	1554.6	1551.5	1560.7	1569.8	1557.6	1521.0	1479.2	1447.4	1435.6	1434.7	1435.6
25°	1593.8	1593.4	1604.7	1588.1	1534.1	1466.5	1410.3	1379.4	1372.8	1378.1	1386.8
27.5°	1642.6	1647.4	1653.1	1592.5	1486.2	1384.2	1327.1	1305.7	1312.3	1324.9	1333.2
30°	1704.9	1718.0	1705.8	1581.6	1417.3	1290.0	1235.6	1229.5	1247.3	1265.2	1273.9
32.5°	1765.5	1786.0	1756.4	1553.3	1328.4	1190.2	1148.0	1146.2	1168.0	1185.4	1197.6
35°	1814.3	1854.9	1794.3	1497.1	1225.5	1098.3	1067.3	1055.6	1063.4	1083.9	1097.8
37.5°	1878.0	1945.5	1820.4	1411.2	1114.0	1022.4	986.3	959.2	952.3	960.6	967.5
40°	1994.3	2083.7	1832.6	1291.3	1005.0	946.6	910.0	870.3	842.9	822.8	823.3
42.5°	2184.3	2263.7	1824.8	1145.8	904.3	872.5	831.1	785.4	740.9	695.6	692.1
45°	2492.9	2531.3	1801.3	991.5	815.9	794.9	756.2	710.4	651.1	599.7	594.9
47.5°	2986.7	2901.7	1764.7	856.8	737.8	729.1	693.4	640.7	577.9	536.5	533.0
50°	3660.0	3436.5	1746.8	749.6	669.0	671.6	642.4	586.6	527.3	496.8	493.4
52.5°	4465.4	4059.3	1781.2	666.8	613.6	622.8	601.0	548.7	499.0	475.0	471.6
55°	5300.9	4704.3	1818.3	606.7	561.3	579.2	571.8	528.7	483.8	461.5	458.5
57.5°	6016.1	5185.9	1744.2	557.9	514.7	542.6	549.1	516.0	475.9	455.9	452.4
60°	6466.3	5379.8	1549.8	512.1	477.7	513.4	536.1	512.5	479.0	477.2	474.6
62.5°	6679.9	5362.8	1258.2	475.9	454.6	500.8	545.7	532.1	513.8	529.5	530.8
65°	6584.0	5106.5	937.0	451.9	438.0	505.6	574.4	569.2	523.9	539.5	541.7
67.5°	5952.9	4495.1	693.8	431.0	419.7	519.1	626.7	581.4	504.2	515.6	508.6
70°	4811.5	3563.7	535.2	407.5	401.0	517.3	650.2	574.0	482.9	485.5	466.8
72.5°	3317.9	2430.2	435.4	385.7	373.9	471.6	633.7	555.7	465.0	445.0	420.1
75°	1804.3	1304.4	370.0	363.0	326.4	414.0	603.2	542.6	448.9	422.3	408.4
77.5°	710.0	541.3	321.2	332.1	285.5	365.7	569.2	517.8	426.7	391.8	384.8
80°	289.8	276.3	266.3	287.2	245.4	319.9	528.2	488.6	400.1	363.5	349.5
82.5°	164.3	171.7	207.0	226.6	199.2	294.6	508.6	465.0	368.3	325.6	309.0
85°	84.1	100.7	144.3	162.6	146.4	250.6	468.5	407.1	295.5	249.3	250.6
87.5°	40.5	56.2	91.1	102.0	95.0	181.3	350.0	295.1	230.1	182.2	176.5
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)