

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: P194080

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10967 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

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

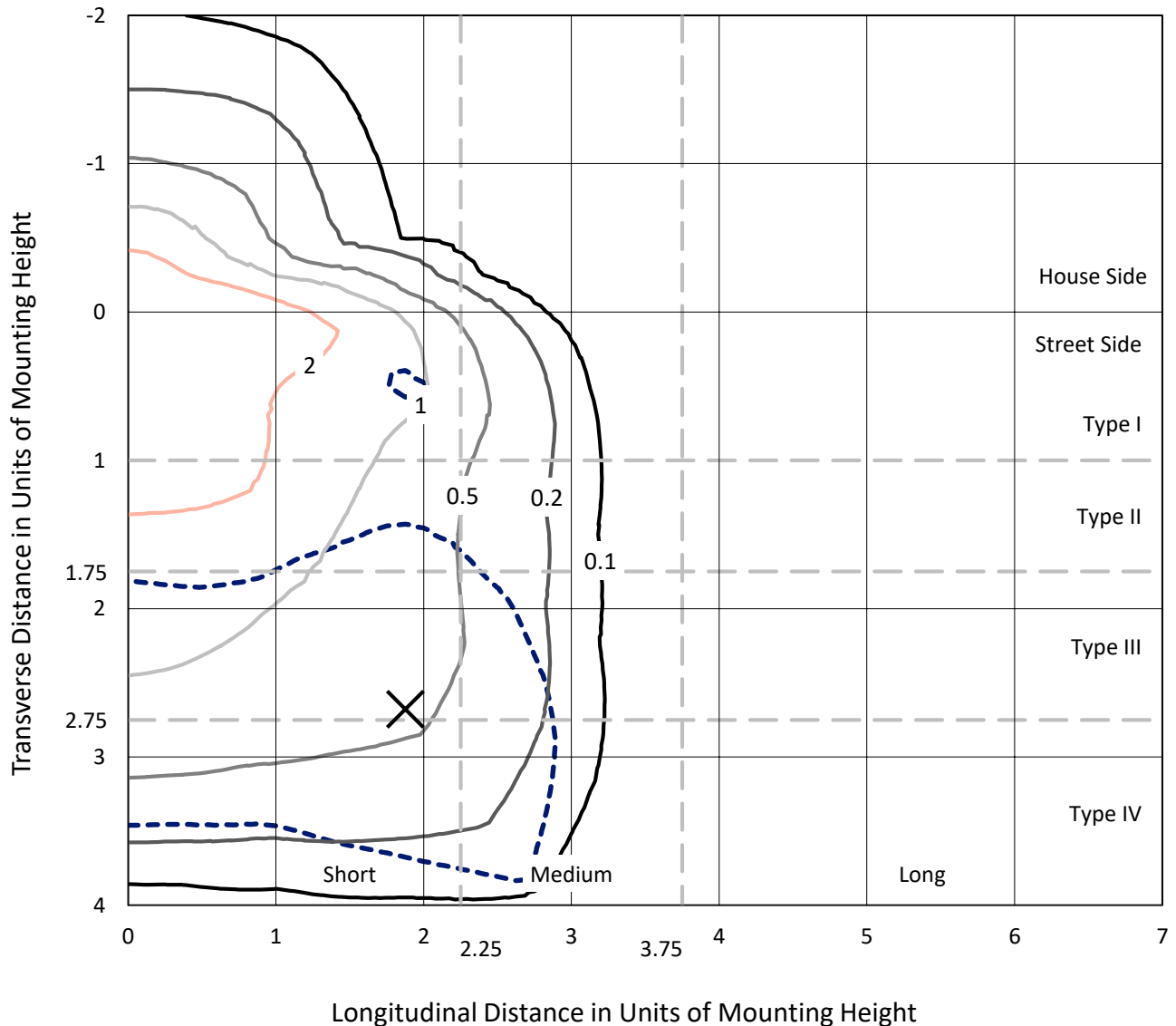


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

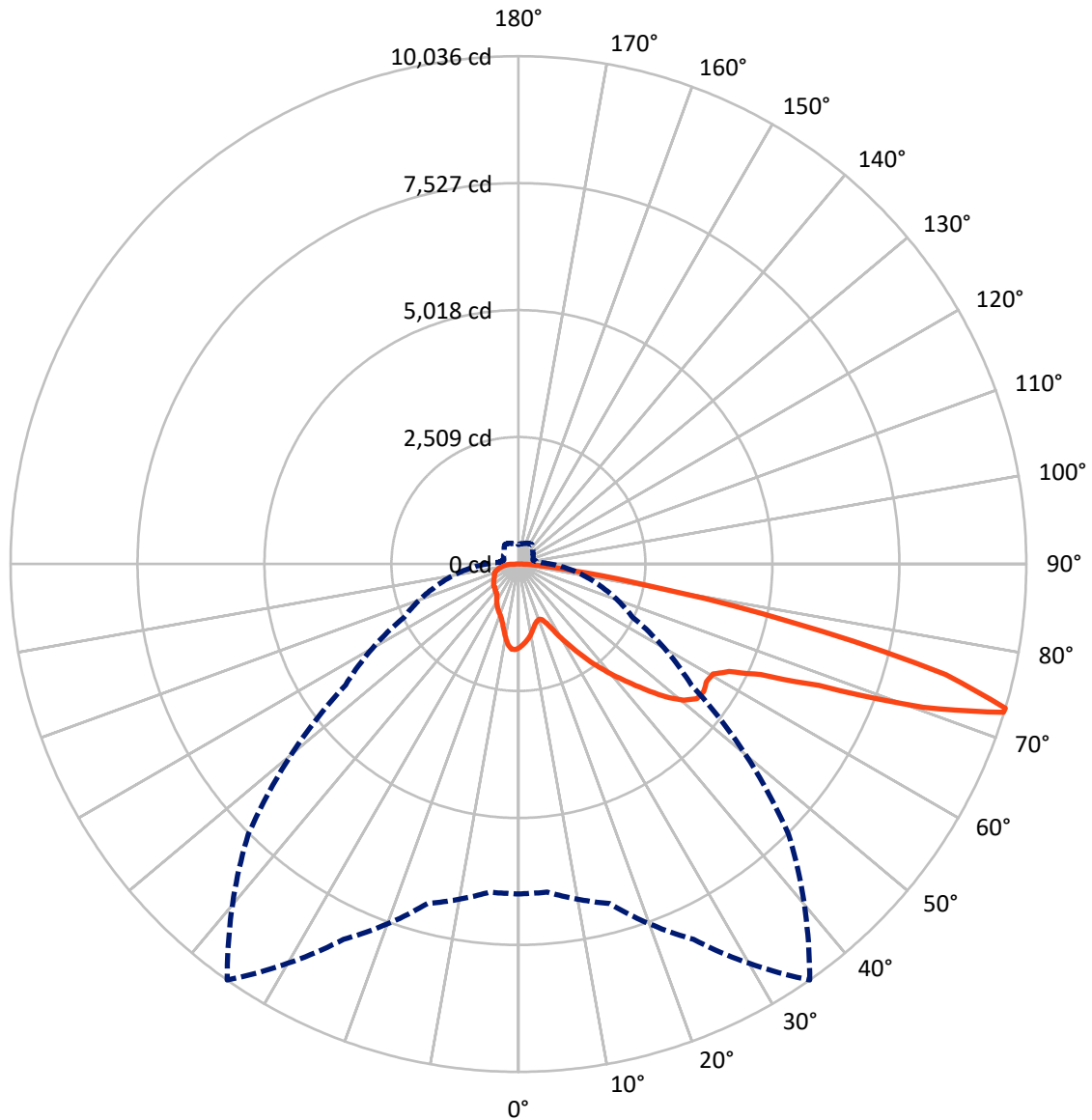


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2091.7	0.0	2091.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	8875.3	0.0	8875.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	10967.0	0.0	10967.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	1.4
10°-20°	374.0	3.4
20°-30°	604.6	5.5
30°-40°	1013.9	9.2
40°-50°	1562.8	14.3
50°-60°	2096.7	19.1
60°-70°	2793.2	25.5
70°-80°	2130.4	19.4
80°-90°	241.5	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°	10967.0	100.0
0°-180°	10967.0	100.0

**Coefficient of Utilization**



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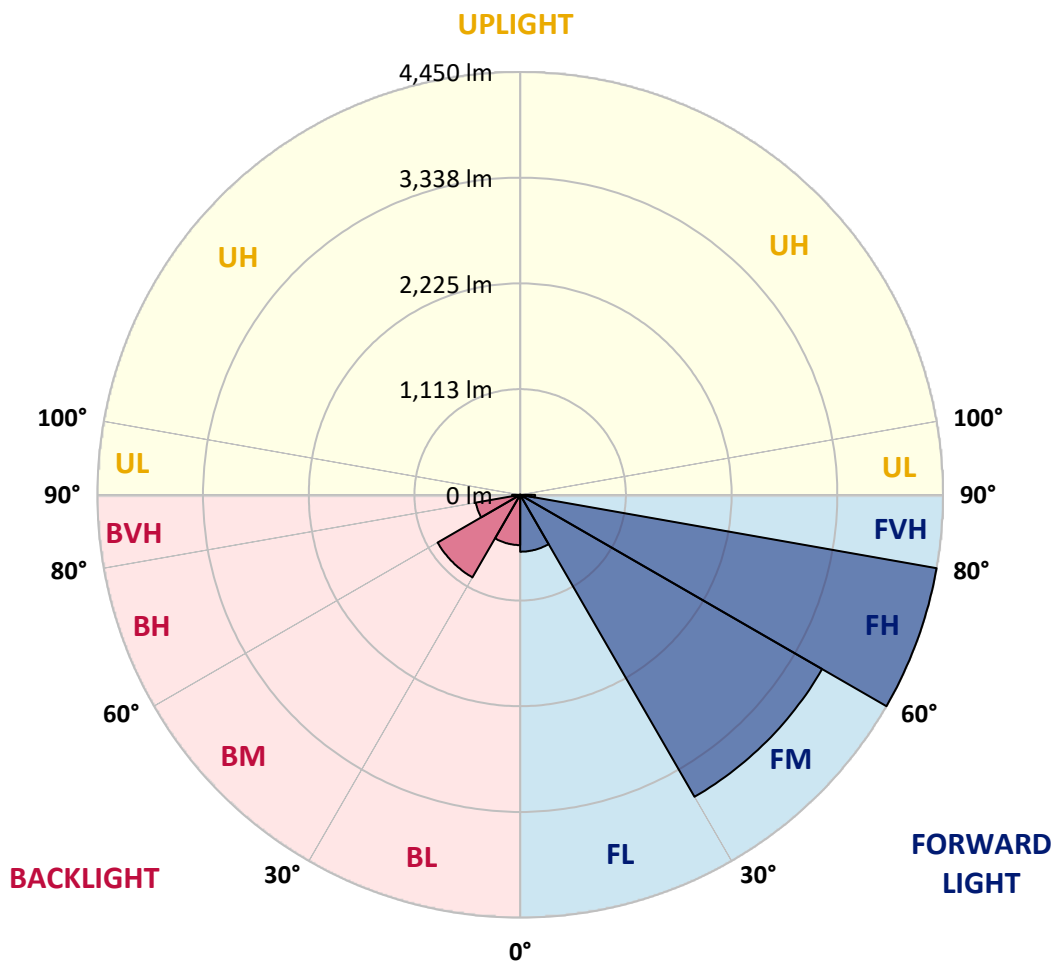
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	599.2	5.5			
FM	(30°-60°)	3669.6	33.5			
FH	(60°-80°)	4450.4	40.6			G2/5000
FVH	(80°-90°)	156.1	1.4			G2/225
BL	(0°-30°)	529.3	4.8	B2/1000		
BM	(30°-60°)	1003.8	9.2	B2/2500		
BH	(60°-80°)	473.2	4.3	B1/500		G1/500
BVH	(80°-90°)	85.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3
2.5°	1590.0	1593.1	1589.4	1594.2	1602.1	1610.5	1616.3	1624.7	1634.2	1647.4	1650.5
5°	1515.2	1519.9	1519.9	1528.3	1543.6	1557.3	1569.9	1583.6	1603.6	1626.3	1635.2
7.5°	1433.0	1435.6	1440.4	1453.0	1475.1	1494.6	1512.5	1534.7	1562.0	1592.1	1607.9
10°	1334.0	1337.7	1345.1	1363.0	1393.0	1419.8	1445.7	1476.2	1511.0	1548.4	1568.4
12.5°	1264.0	1262.9	1266.1	1279.2	1305.6	1338.2	1375.6	1414.6	1457.2	1501.0	1525.2
15°	1240.3	1234.5	1222.4	1219.2	1233.4	1266.1	1309.3	1357.2	1408.3	1460.9	1490.9
17.5°	1255.0	1245.0	1211.8	1187.6	1185.5	1210.2	1256.1	1309.8	1368.8	1433.0	1470.4
20°	1347.7	1324.0	1242.4	1186.0	1166.5	1178.6	1218.7	1275.5	1345.1	1430.4	1478.3
22.5°	1569.4	1534.7	1361.4	1256.6	1190.8	1176.0	1206.0	1266.6	1347.7	1463.0	1524.1
25°	1892.3	1842.7	1565.7	1432.5	1296.6	1218.1	1225.0	1287.1	1385.1	1538.9	1612.6
27.5°	2147.2	2115.0	1832.7	1680.5	1489.4	1331.9	1286.6	1338.7	1461.5	1663.2	1738.5
30°	2298.8	2279.3	2118.2	1961.8	1735.3	1513.1	1404.6	1435.6	1581.0	1835.4	1897.5
32.5°	2474.7	2463.1	2384.1	2240.4	2000.7	1751.1	1591.5	1580.5	1741.1	2042.3	2070.8
35°	2656.9	2653.3	2606.9	2503.7	2285.7	2065.0	1839.6	1764.8	1915.4	2257.2	2239.3
37.5°	2826.5	2820.2	2793.4	2733.3	2583.7	2402.1	2092.4	1953.9	2103.4	2462.6	2383.1
40°	3138.8	3089.3	2997.2	2951.9	2885.0	2685.9	2293.0	2130.3	2298.3	2658.5	2507.4
42.5°	3519.6	3439.0	3267.3	3205.2	3195.7	2909.7	2430.0	2301.5	2494.7	2852.9	2629.6
45°	3819.3	3743.4	3595.4	3517.0	3551.7	3112.5	2567.4	2484.2	2697.0	3056.7	2755.4
47.5°	4138.9	4019.9	3824.0	3847.7	3923.5	3304.2	2707.5	2680.6	2918.7	3284.7	2911.8
50°	4150.5	4059.4	3973.6	4115.2	4233.2	3480.6	2882.9	2886.6	3189.9	3571.7	3119.9
52.5°	3909.8	3890.4	4026.8	4249.5	4419.6	3620.2	3082.5	3099.3	3537.0	3901.4	3348.4
55°	3825.6	3803.5	3960.9	4202.7	4444.9	3735.5	3298.9	3329.5	3956.7	4249.0	3571.2
57.5°	4031.0	3982.0	3992.5	4180.5	4383.3	3861.9	3534.9	3596.5	4412.8	4552.9	3714.5
60°	4605.0	4500.2	4301.2	4296.4	4416.5	4051.5	3807.7	3883.0	4886.8	4698.2	3658.6
62.5°	5410.3	5305.5	4932.6	4689.8	4671.9	4364.3	4142.6	4162.6	5160.6	4501.3	3317.9
65°	6281.9	6188.1	5771.6	5428.7	5263.3	4882.6	4531.8	4287.5	5071.1	3959.4	2721.7
67.5°	7339.9	7239.3	6881.2	6564.7	6405.6	5718.9	4805.2	4167.9	4502.9	3067.2	1956.5
70°	8079.9	7977.2	7836.0	8092.5	8481.7	6925.4	4840.4	3681.8	3363.2	2038.7	1177.6
72.5°	7114.5	7066.6	7324.1	8404.3	10025.3	7657.5	4375.4	2680.6	1953.3	1082.3	681.5
73°	6518.3	6507.8	6947.0	8185.7	10036.4	7544.8	4171.6	2491.6	1675.3	957.4	623.0
75°	2943.4	3028.2	3991.0	6252.4	8719.7	6217.1	2936.1	1429.3	946.4	661.5	470.3
77.5°	707.3	736.8	1248.7	2969.3	5506.7	3705.0	1330.3	706.8	605.1	467.1	343.4
80°	301.2	311.3	480.8	1097.0	2592.7	1492.0	613.0	473.5	418.7	326.0	240.7
82.5°	167.5	178.0	272.8	497.7	1046.5	508.7	373.9	329.7	275.4	196.4	156.4
85°	94.8	100.6	159.6	278.1	443.4	204.3	223.8	219.1	155.4	101.1	76.9
87.5°	44.8	48.5	76.9	129.0	173.8	80.1	113.8	125.3	97.4	61.6	40.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3	1655.3
2.5°	1654.2	1663.7	1674.7	1680.5	1685.8	1692.1	1698.4	1698.4	1699.5	1700.0
5°	1642.6	1662.1	1679.5	1686.9	1688.4	1688.4	1686.9	1678.4	1671.1	1674.2
7.5°	1618.4	1646.8	1661.6	1658.9	1638.9	1615.8	1596.3	1572.6	1560.5	1558.4
10°	1583.6	1616.3	1618.9	1592.6	1543.1	1493.6	1452.5	1412.5	1393.5	1388.8
12.5°	1545.2	1575.2	1558.4	1504.1	1424.6	1352.4	1300.3	1259.7	1241.8	1237.1
15°	1514.1	1534.7	1492.0	1406.7	1306.6	1230.3	1187.1	1157.1	1144.4	1140.7
17.5°	1497.8	1502.0	1424.1	1308.7	1202.3	1138.6	1111.8	1097.5	1092.8	1090.2
20°	1505.7	1476.2	1359.3	1217.6	1117.0	1072.3	1065.9	1062.3	1061.2	1059.6
22.5°	1545.2	1468.3	1299.8	1131.2	1042.2	1022.8	1028.0	1027.5	1026.4	1025.4
25°	1615.8	1475.1	1241.8	1049.1	979.6	975.4	984.8	984.8	980.6	980.6
27.5°	1709.0	1489.4	1177.1	971.1	922.7	923.2	930.6	928.5	923.7	920.6
30°	1822.7	1498.3	1101.2	901.1	869.5	867.4	869.5	860.5	846.3	845.3
32.5°	1939.1	1487.3	1013.3	839.0	813.1	808.4	806.8	794.2	777.9	773.1
35°	2044.5	1446.7	923.7	789.4	759.4	748.9	756.3	752.1	737.3	733.6
37.5°	2121.3	1371.4	843.2	745.7	721.0	718.4	723.1	724.7	707.3	703.6
40°	2173.0	1269.2	774.2	708.9	713.6	703.6	687.8	676.7	671.5	669.9
42.5°	2214.6	1162.8	716.2	691.5	715.2	686.2	652.0	634.1	643.6	647.8
45°	2262.5	1059.1	667.8	669.9	707.3	666.2	627.2	609.9	613.5	614.6
47.5°	2328.3	932.7	615.7	635.1	681.0	652.5	612.0	587.2	569.8	561.9
50°	2419.4	783.1	561.4	596.2	655.2	642.5	588.3	561.9	529.8	522.4
52.5°	2482.6	643.6	516.6	563.5	632.0	622.5	569.3	535.1	501.4	495.1
55°	2448.4	534.5	477.7	527.2	601.4	597.7	553.5	507.7	481.4	476.1
57.5°	2277.2	465.6	447.7	492.9	564.0	576.7	532.4	484.5	465.6	461.9
60°	1950.7	422.4	428.7	469.8	533.5	555.6	511.4	471.9	459.2	456.6
62.5°	1513.6	393.4	414.5	452.9	509.8	540.9	499.8	470.3	465.6	462.4
65°	1084.4	370.2	399.2	436.1	488.2	527.2	495.6	468.2	469.2	466.6
67.5°	736.8	349.7	380.8	417.1	467.1	515.1	489.8	460.8	474.0	470.8
70°	515.6	329.7	359.2	392.9	440.8	498.2	479.3	449.8	448.7	436.1
72.5°	402.4	303.4	329.7	359.2	407.1	474.5	458.2	425.0	407.6	394.5
73°	383.9	297.0	322.3	351.8	399.7	468.7	452.4	418.2	398.7	386.6
75°	317.6	269.6	292.8	319.1	368.1	441.3	424.0	387.1	362.3	355.0
77.5°	249.6	230.7	252.8	276.5	324.4	401.3	381.8	346.5	332.8	326.5
80°	184.9	191.2	210.7	231.7	281.2	358.6	341.3	306.0	367.1	351.8
82.5°	130.1	144.8	162.7	181.7	235.9	317.0	296.0	259.6	268.6	223.3
85°	76.9	94.8	111.6	128.0	170.1	262.8	244.4	207.0	169.6	161.7
87.5°	44.8	52.7	57.4	74.3	116.9	198.0	172.2	153.3	88.0	59.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)