

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: P191759

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-AFL-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5166 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

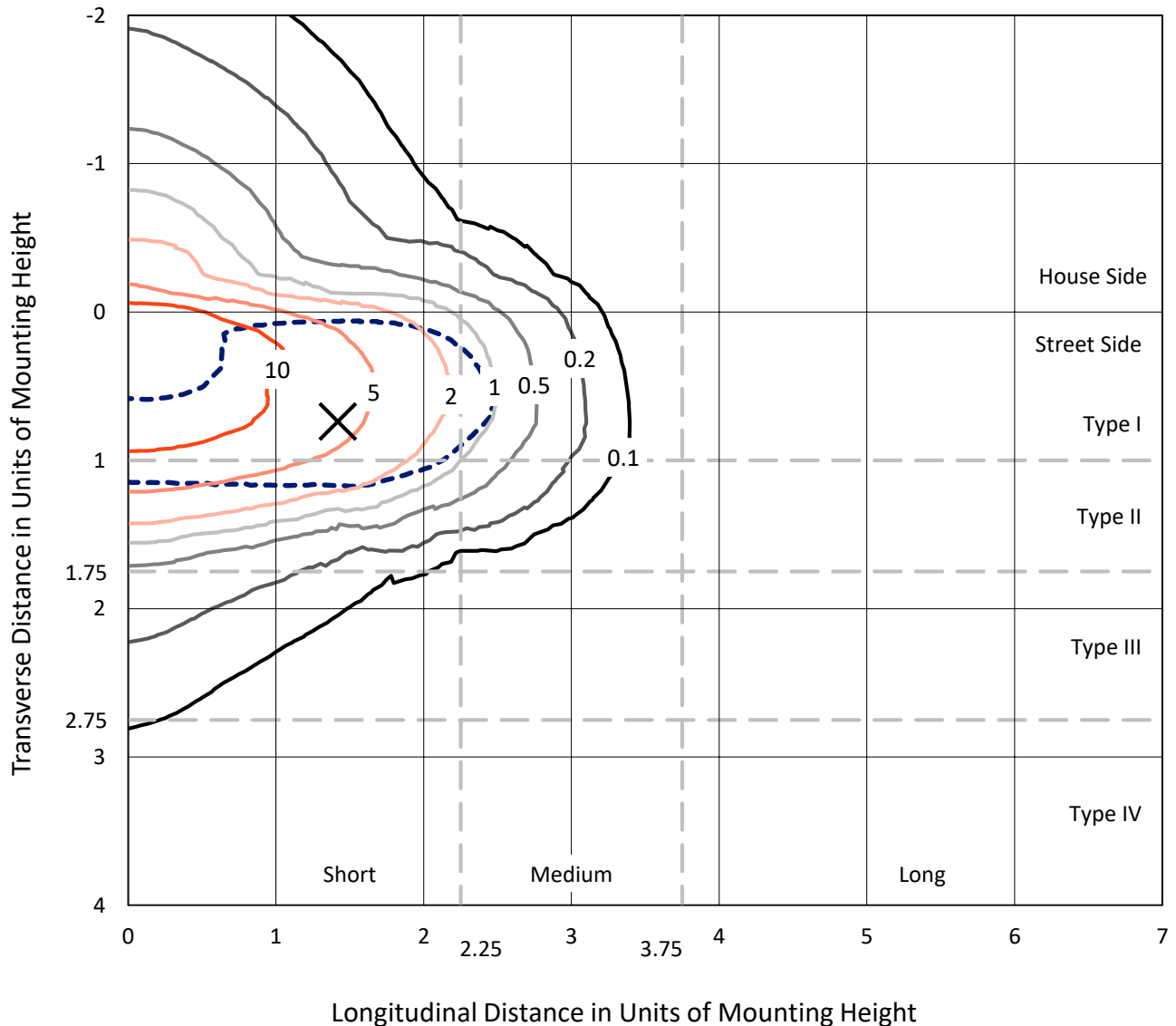


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### Iso-Footcandle Lines of Horizontal Illumination

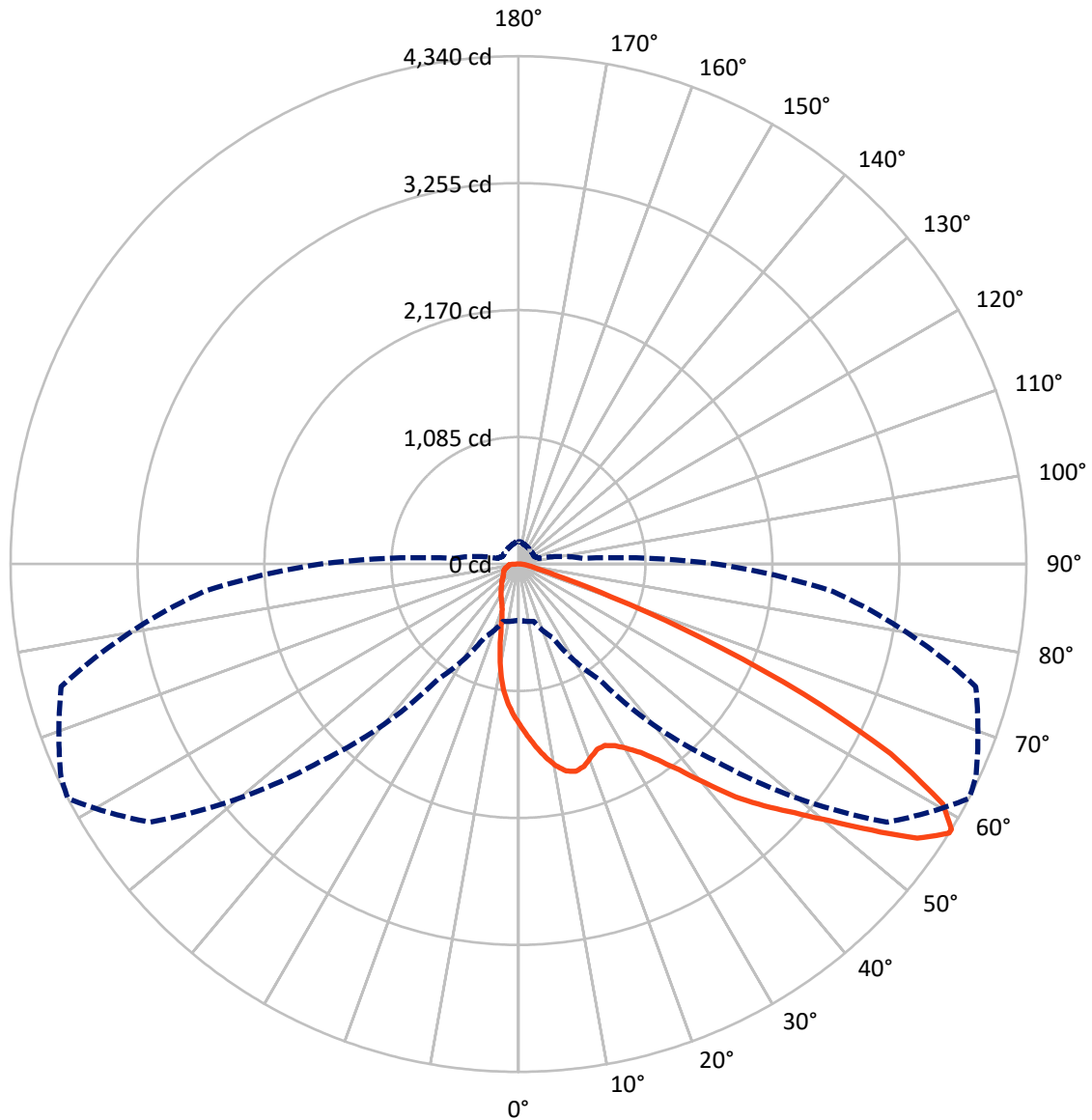
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	787.8	0.0	787.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	4378.2	0.0	4378.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	5166.0	0.0	5166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.7	2.4
10°-20°	313.7	6.1
20°-30°	507.1	9.8
30°-40°	805.1	15.6
40°-50°	1178.0	22.8
50°-60°	1232.0	23.8
60°-70°	727.9	14.1
70°-80°	205.1	4.0
80°-90°	74.4	1.4
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°	5166.0	100.0
0°-180°	5166.0	100.0

**Coefficient of Utilization**



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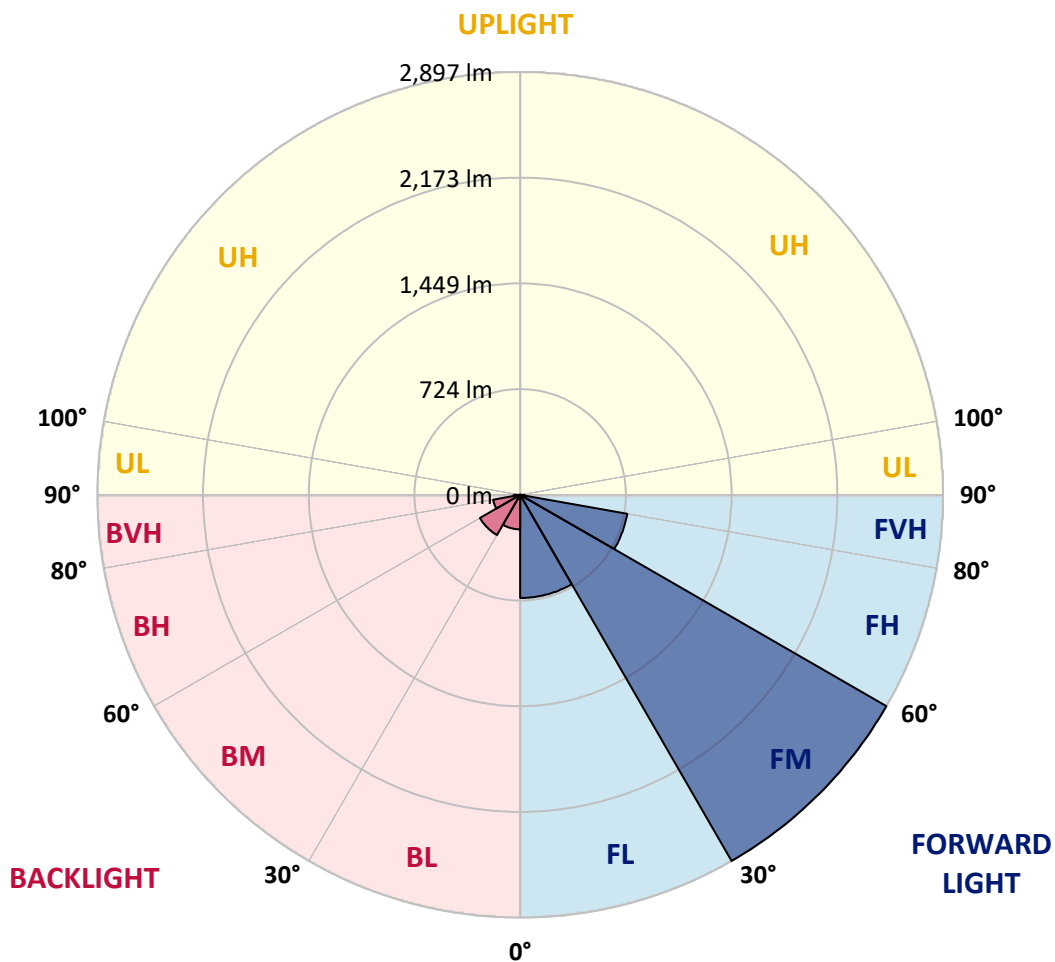
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	706.8	13.7			
FM	(30°-60°)	2897.1	56.1			
FH	(60°-80°)	745.0	14.4			G1/1800
FVH	(80°-90°)	29.4	0.6			G1/100
BL	(0°-30°)	236.8	4.6	B1/500		
BM	(30°-60°)	318.0	6.2	B1/1000		
BH	(60°-80°)	188.0	3.6	B1/500		G1/500
BVH	(80°-90°)	45.1	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2
2.5°	1568.1	1555.4	1547.4	1540.3	1531.1	1511.4	1484.9	1468.1	1459.6	1430.6	1396.3
5°	1721.8	1710.6	1702.3	1692.9	1676.3	1645.4	1602.6	1568.6	1551.8	1493.9	1425.3
7.5°	1685.8	1690.4	1704.8	1729.8	1751.2	1747.1	1708.9	1665.6	1643.5	1563.0	1458.8
10°	1468.8	1476.8	1501.7	1560.3	1655.2	1752.5	1782.1	1752.2	1729.8	1631.3	1493.4
12.5°	1425.3	1425.0	1427.0	1442.5	1499.0	1635.9	1784.6	1814.7	1801.4	1696.5	1528.7
15°	1443.0	1443.5	1442.1	1448.6	1466.1	1520.4	1710.1	1838.8	1848.3	1762.2	1565.1
17.5°	1489.7	1488.5	1482.9	1482.9	1489.3	1510.4	1622.6	1816.4	1860.2	1820.3	1597.3
20°	1568.1	1562.5	1547.6	1534.0	1527.2	1538.6	1586.6	1764.9	1839.5	1871.2	1623.8
22.5°	1662.9	1658.6	1634.5	1605.3	1581.7	1581.4	1605.0	1719.9	1803.8	1919.1	1646.2
25°	1785.5	1778.5	1742.7	1696.0	1654.7	1638.9	1645.4	1717.7	1784.3	1971.2	1666.1
27.5°	1929.6	1916.7	1874.3	1807.0	1746.1	1714.3	1704.8	1757.3	1802.1	2035.6	1693.8
30°	2104.2	2089.4	2035.1	1947.3	1861.4	1809.1	1789.0	1827.6	1861.0	2114.2	1738.4
32.5°	2303.0	2281.6	2218.8	2122.0	2009.1	1929.3	1896.5	1920.6	1947.1	2208.8	1794.1
35°	2577.6	2552.1	2461.3	2327.8	2200.3	2090.6	2038.1	2055.6	2081.4	2349.9	1874.6
37.5°	2764.9	2753.5	2693.2	2567.6	2429.0	2302.7	2221.5	2231.7	2246.3	2526.3	1977.7
40°	2763.2	2767.8	2769.1	2770.3	2675.9	2555.0	2467.7	2456.9	2454.0	2719.9	2095.0
42.5°	2624.8	2643.8	2705.1	2829.4	2886.8	2831.3	2751.3	2720.4	2705.1	2948.1	2219.3
45°	2412.9	2423.1	2538.0	2780.7	2994.8	3105.0	3044.4	2947.1	2919.4	3157.8	2322.4
47.5°	2303.7	2314.9	2387.1	2651.8	2993.6	3326.1	3361.2	3175.8	3126.2	3340.2	2411.5
50°	2043.6	2067.0	2158.0	2427.5	2884.4	3427.8	3692.2	3448.2	3345.6	3517.8	2500.7
52.5°	1566.1	1602.1	1704.1	2058.7	2607.3	3377.5	3957.1	3778.6	3633.6	3701.7	2577.4
55°	987.9	1014.6	1100.3	1454.0	2085.7	3115.5	4057.6	4135.9	4007.0	3875.9	2643.8
57.5°	537.1	549.0	581.2	802.8	1356.7	2536.3	3911.2	4339.3	4285.8	4023.8	2693.9
58°	480.7	488.7	508.7	695.7	1203.2	2377.9	3846.2	4340.0	4313.3	4045.5	2697.8
60°	356.6	352.5	334.7	397.0	669.7	1642.8	3453.6	4166.4	4244.9	4072.0	2678.8
62.5°	313.3	303.3	267.1	263.0	325.7	756.8	2642.6	3568.9	3754.5	3920.7	2563.5
65°	294.3	283.6	236.9	221.9	235.0	320.1	1556.6	2676.6	2909.4	3461.9	2268.7
67.5°	280.2	266.4	217.7	197.0	198.0	211.6	624.0	1685.8	1947.8	2628.4	1764.6
70°	266.6	251.5	201.4	177.6	172.0	167.4	248.1	843.9	1081.5	1660.3	1125.1
72.5°	252.0	237.2	187.1	162.3	151.3	136.0	162.0	345.2	482.1	785.5	510.4
75°	230.9	217.5	172.7	148.6	133.1	112.6	122.4	180.3	216.3	312.8	245.9
77.5°	204.8	193.9	156.7	137.4	118.0	91.5	94.1	125.0	138.7	179.0	146.2
80°	147.2	151.1	139.4	123.6	105.1	74.2	72.2	91.2	98.5	115.1	95.1
82.5°	103.4	105.6	115.3	101.0	86.8	58.4	53.3	64.2	68.6	75.7	51.3
85°	71.3	68.8	79.1	70.3	62.8	38.9	36.5	43.5	46.2	46.9	26.5
87.5°	42.8	42.8	45.7	37.7	33.8	20.2	19.7	24.8	26.5	25.3	14.6
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°	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2	1372.2
2.5°	1375.9	1358.6	1321.9	1292.5	1255.2	1216.6	1194.9	1171.8	1156.0	1144.5	1162.8
5°	1386.4	1351.1	1275.2	1203.2	1123.6	1040.9	978.2	919.8	879.1	853.9	877.7
7.5°	1402.9	1348.6	1227.7	1104.7	961.9	824.2	701.1	624.0	579.0	556.8	570.7
10°	1421.9	1344.8	1172.0	971.1	766.8	593.3	501.4	470.2	460.0	455.9	457.8
12.5°	1437.7	1336.5	1103.7	809.6	575.8	468.5	442.0	441.3	443.5	444.0	444.7
15°	1448.9	1324.3	1002.2	641.2	460.5	426.9	425.5	429.8	434.0	435.7	436.7
17.5°	1456.4	1299.3	887.7	507.0	412.6	406.7	410.1	415.7	420.1	421.3	422.3
20°	1455.7	1262.5	751.2	422.8	386.5	386.5	392.4	396.8	397.0	395.5	396.3
22.5°	1448.1	1212.2	618.9	378.0	363.4	367.6	373.4	369.3	352.2	341.1	341.8
25°	1435.5	1152.1	505.5	349.6	342.0	349.3	347.6	316.5	292.2	281.2	281.2
27.5°	1424.3	1081.1	418.4	324.8	320.6	329.6	299.5	271.2	261.0	255.9	254.2
30°	1416.3	1004.4	360.3	300.9	300.4	293.9	259.8	252.0	250.3	246.2	244.7
32.5°	1418.2	926.8	323.1	280.0	281.7	251.5	240.8	242.5	241.1	236.7	234.7
35°	1434.3	853.1	298.7	261.0	255.9	227.2	229.6	232.8	232.3	226.2	224.3
37.5°	1463.0	783.3	282.7	245.2	223.3	215.0	218.9	223.8	222.6	218.4	217.0
40°	1493.1	717.6	269.5	232.8	204.1	206.8	210.2	212.9	214.1	215.3	214.3
42.5°	1522.6	649.0	253.5	220.2	196.1	199.0	200.4	203.1	209.7	214.3	214.1
45°	1540.1	584.6	236.9	202.2	189.7	191.4	190.5	195.8	203.9	211.4	211.6
47.5°	1559.6	534.4	223.8	185.6	183.7	184.9	182.0	187.3	194.6	203.9	204.8
50°	1583.2	504.5	213.3	172.5	175.4	175.4	174.7	179.5	189.7	200.4	202.4
52.5°	1609.9	498.7	204.6	163.0	167.1	166.9	167.6	174.9	186.1	196.6	198.3
55°	1642.5	514.5	195.1	155.9	159.1	160.1	162.5	170.8	180.3	192.2	192.9
57.5°	1680.5	546.6	187.6	150.3	151.8	155.0	158.9	166.4	176.6	189.7	190.5
58°	1686.8	553.4	186.3	149.8	150.3	154.0	158.4	165.7	175.9	190.2	191.0
60°	1687.0	576.0	183.7	147.7	144.7	150.8	155.7	163.0	174.7	191.9	193.6
62.5°	1627.2	575.8	181.7	144.5	138.9	146.4	152.0	160.6	173.4	196.1	199.5
65°	1432.8	523.3	172.5	139.6	134.3	142.6	148.9	158.9	176.9	214.1	216.3
67.5°	1120.7	428.9	155.2	132.8	128.2	138.7	146.9	158.6	180.5	218.2	219.7
70°	741.0	320.9	136.2	125.0	121.9	134.0	147.9	166.9	176.4	209.4	205.6
72.5°	384.6	225.3	120.9	115.3	114.6	129.9	162.0	165.9	172.2	197.0	192.2
75°	201.9	156.4	107.5	104.6	105.8	128.9	191.2	161.5	166.9	188.5	197.8
77.5°	123.6	126.3	96.1	94.9	97.3	126.0	191.0	155.9	159.1	173.4	183.7
80°	82.7	102.4	87.3	87.6	89.3	115.3	171.5	147.2	149.6	164.0	174.4
82.5°	52.3	60.6	79.3	83.4	81.2	95.1	145.7	134.0	137.4	187.6	198.3
85°	26.5	37.9	68.8	80.3	73.2	66.7	118.2	117.5	119.2	135.3	141.3
87.5°	12.2	20.9	53.8	70.1	55.2	41.6	85.9	87.1	93.9	96.1	96.1
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)