

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: P269074

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6972.4 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

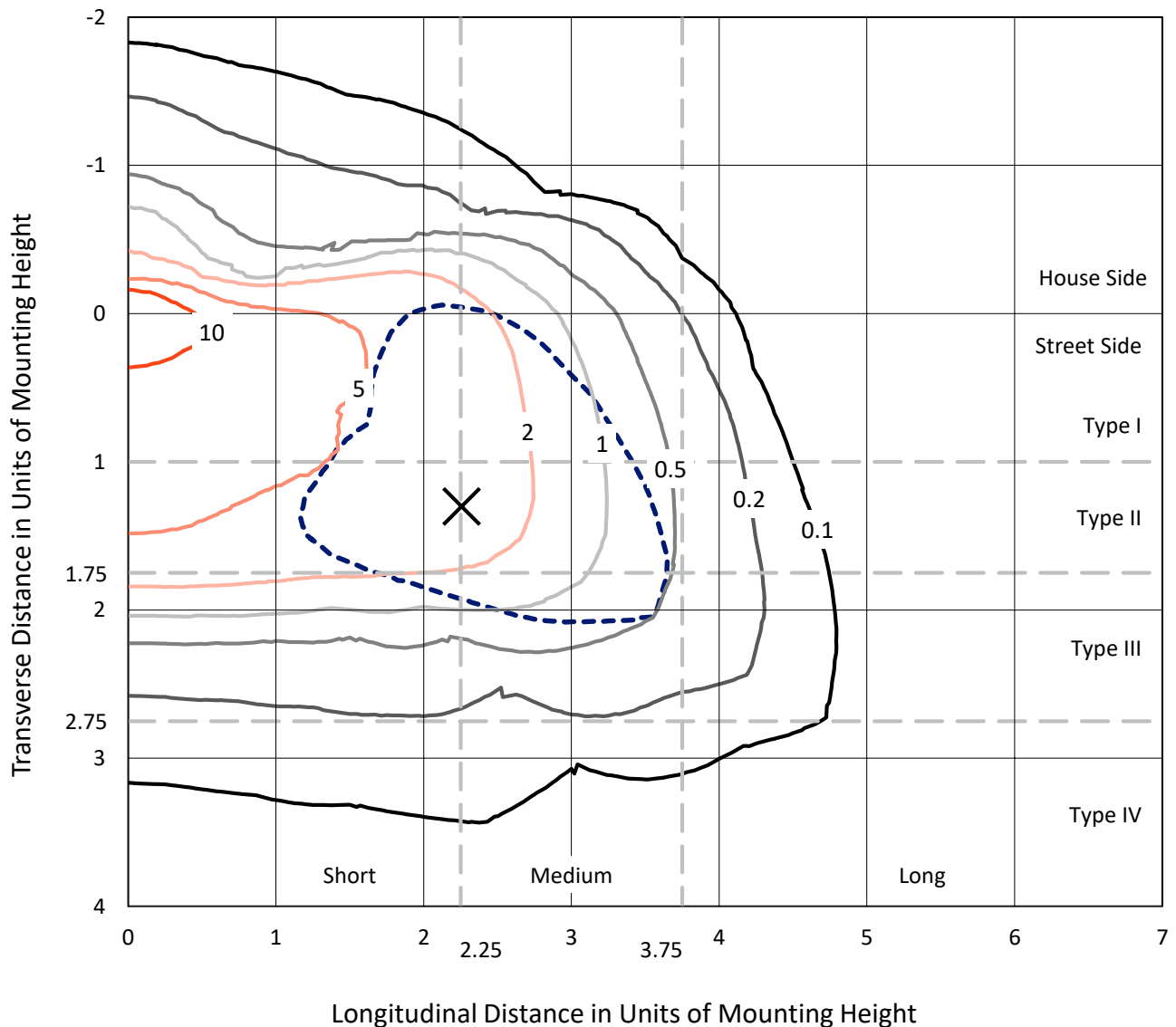
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

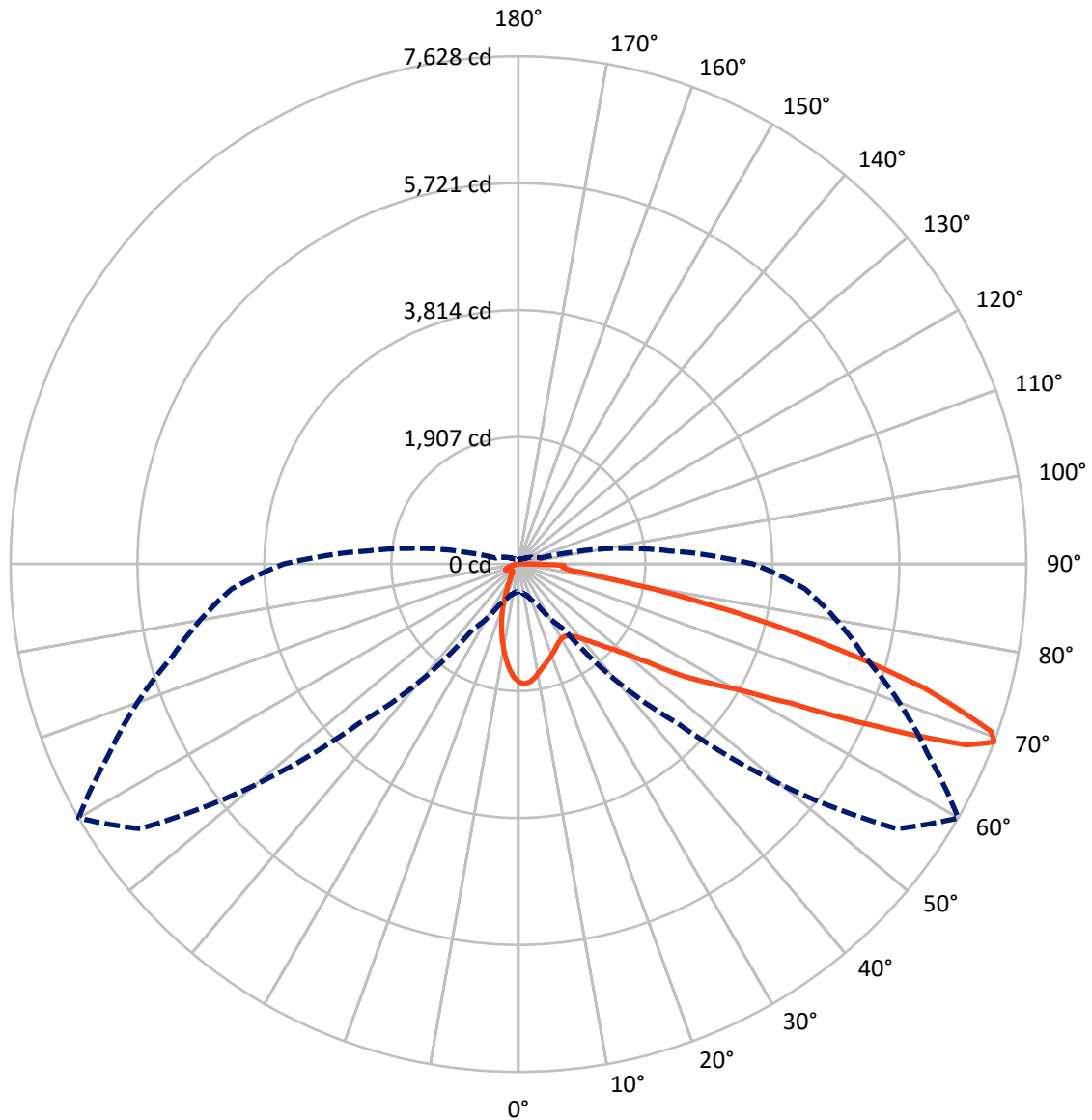
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	992.0	0.0	992.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5980.5	0.0	5980.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	6972.4	0.0	6972.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	2.2
10°-20°	320.1	4.6
20°-30°	407.8	5.8
30°-40°	560.6	8.0
40°-50°	909.7	13.0
50°-60°	1458.9	20.9
60°-70°	1941.7	27.8
70°-80°	1048.4	15.0
80°-90°	174.9	2.5
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°	6972.4	100.0
0°-180°	6972.4	100.0

Coefficient of Utilization



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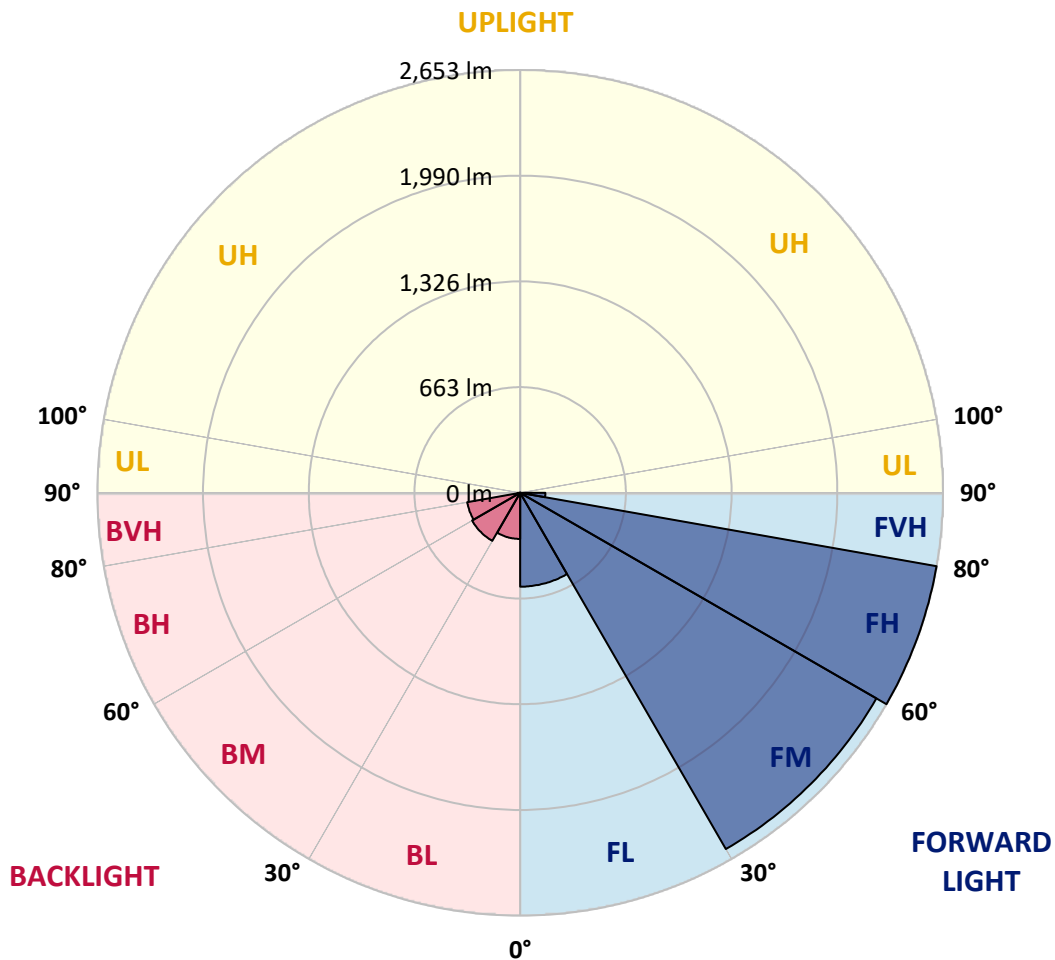
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.7	8.4			
FM (30°-60°)	2580.8	37.0			
FH (60°-80°)	2652.9	38.0			G2/5000
FVH (80°-90°)	158.1	2.3			G2/225
BL (0°-30°)	289.4	4.2	B1/500		
BM (30°-60°)	348.5	5.0	B1/1000		
BH (60°-80°)	337.2	4.8	B1/500		G1/500
BVH (80°-90°)	16.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7
2.5°	1813.0	1817.1	1815.5	1814.3	1817.5	1812.7	1803.0	1799.9	1795.3	1784.2	1765.2
5°	1745.0	1757.2	1756.5	1765.6	1780.7	1784.8	1780.4	1781.1	1772.3	1758.5	1727.3
7.5°	1627.5	1632.5	1635.3	1655.0	1682.7	1705.0	1723.8	1729.9	1725.9	1714.1	1673.6
10°	1506.2	1510.3	1516.7	1540.0	1574.9	1605.6	1641.4	1661.9	1670.6	1668.6	1623.4
12.5°	1402.2	1406.1	1414.7	1440.9	1482.7	1520.4	1572.3	1597.8	1618.7	1631.2	1582.6
15°	1308.8	1317.6	1325.7	1356.0	1402.9	1452.3	1510.9	1543.3	1575.5	1603.6	1546.6
17.5°	1236.1	1244.8	1249.6	1277.2	1327.1	1387.6	1456.4	1494.4	1534.8	1580.7	1510.9
20°	1193.9	1198.0	1196.1	1211.5	1256.3	1320.7	1402.2	1446.4	1495.0	1559.1	1475.2
22.5°	1182.2	1182.6	1175.2	1173.5	1202.4	1256.6	1344.3	1397.8	1457.7	1544.9	1444.6
25°	1210.8	1209.8	1189.6	1173.1	1176.2	1207.9	1288.3	1350.6	1426.4	1541.9	1420.9
27.5°	1274.4	1277.5	1247.6	1216.6	1185.9	1185.0	1245.9	1311.5	1400.7	1555.8	1410.9
30°	1363.7	1368.7	1336.8	1297.4	1239.8	1192.3	1229.4	1288.3	1384.9	1584.4	1409.3
32.5°	1461.5	1466.8	1442.6	1401.1	1325.7	1238.1	1240.7	1290.3	1384.3	1624.5	1420.7
35°	1565.4	1571.6	1559.1	1524.1	1440.3	1322.7	1284.5	1323.1	1406.1	1685.8	1451.3
37.5°	1681.6	1691.1	1694.6	1661.1	1571.6	1434.1	1356.4	1384.9	1455.8	1771.0	1507.5
40°	1849.2	1862.2	1861.2	1813.4	1722.1	1584.7	1467.1	1474.6	1532.9	1884.9	1597.5
42.5°	2169.8	2172.5	2088.6	1984.4	1887.9	1743.0	1597.8	1591.7	1639.2	2028.9	1729.9
45°	2577.6	2566.5	2379.9	2178.7	2060.9	1924.9	1768.0	1738.3	1774.3	2204.8	1895.6
47.5°	2916.1	2890.6	2654.8	2377.3	2244.1	2122.5	1967.6	1915.7	1935.7	2404.1	2109.8
50°	3033.7	3014.4	2819.2	2542.3	2417.7	2363.7	2213.6	2140.1	2145.5	2641.9	2360.7
52.5°	3008.5	3005.6	2875.4	2651.1	2580.0	2617.0	2561.7	2462.4	2410.0	2905.9	2631.6
55°	2948.7	2954.5	2907.4	2777.6	2765.5	2861.6	3016.8	2943.3	2780.1	3172.5	2911.3
57.5°	2741.6	2756.4	2860.3	2937.0	3064.3	3207.0	3383.2	3362.4	3178.6	3460.5	3244.1
60°	2208.8	2243.2	2521.4	2905.9	3371.8	3818.4	3897.2	3848.8	3589.4	3817.7	3683.7
62.5°	1547.7	1583.4	1914.1	2516.1	3321.4	4509.0	4816.1	4606.9	4179.5	4344.3	4252.5
65°	828.5	845.8	1098.4	1745.6	2804.0	4651.3	6159.0	5840.7	5113.8	4993.3	4739.3
67.5°	457.1	466.5	563.1	881.4	1795.9	4096.0	7014.4	7254.9	6281.6	5425.4	4650.7
69°	413.3	422.1	485.4	667.6	1201.8	3386.6	6931.0	7627.8	6793.5	5382.6	4323.4
70°	404.1	412.2	469.2	615.3	972.8	2791.6	6651.1	7532.5	6915.4	5229.4	4037.7
72.5°	363.8	372.4	427.8	552.6	831.2	1391.7	5268.4	6368.8	6278.6	4534.1	3062.6
75°	339.2	347.3	440.9	541.3	795.9	880.8	3473.1	4693.9	4615.3	3171.7	1651.4
77.5°	145.2	144.4	204.5	458.0	807.7	852.9	1866.3	2932.2	2675.3	1355.6	474.2
80°	96.9	95.3	96.9	134.7	740.7	857.5	977.7	1488.4	1124.3	345.6	233.7
82.5°	83.5	82.1	85.2	82.1	260.4	978.8	831.2	791.4	534.5	196.4	115.8
85°	56.2	53.9	73.4	73.8	123.0	869.6	936.4	668.6	432.4	116.5	57.2
87.5°	26.9	26.3	42.8	52.2	72.0	353.4	1050.5	685.0	436.1	59.6	27.3
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°	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7	1776.7
2.5°	1759.5	1745.6	1732.2	1716.0	1699.2	1680.4	1670.9	1661.4	1659.1	1656.5	1647.0
5°	1711.0	1691.5	1657.8	1620.7	1581.6	1543.6	1514.6	1496.4	1482.7	1475.6	1463.1
7.5°	1648.4	1619.7	1560.7	1496.8	1431.1	1371.2	1319.3	1286.6	1255.7	1241.2	1224.7
10°	1588.7	1546.0	1454.4	1360.0	1265.7	1175.2	1090.0	1029.6	976.1	946.2	924.9
12.5°	1537.5	1478.9	1351.9	1224.3	1094.9	965.9	838.3	738.0	654.1	609.9	587.4
15°	1487.8	1416.9	1254.7	1092.6	926.6	751.2	583.4	469.5	400.1	372.4	363.1
17.5°	1442.6	1351.9	1156.9	959.8	752.8	540.6	392.0	329.4	302.8	293.7	290.7
20°	1393.7	1286.4	1055.6	821.1	571.6	377.8	306.1	278.6	267.8	265.1	263.7
22.5°	1346.6	1221.7	958.6	672.7	410.5	291.7	263.1	251.5	249.9	252.2	252.2
25°	1306.5	1163.7	853.7	517.3	301.4	245.5	235.4	232.8	239.0	247.9	249.5
27.5°	1276.5	1116.2	742.3	382.0	240.1	213.5	213.2	217.6	233.4	250.3	253.6
30°	1256.0	1071.0	623.2	275.5	201.4	187.9	193.3	202.7	226.1	249.9	256.3
32.5°	1245.5	1037.7	498.7	213.2	172.5	165.1	174.1	185.6	208.4	230.8	239.0
35°	1253.7	1013.1	381.6	177.9	152.3	146.6	155.9	167.1	180.5	189.9	196.4
37.5°	1283.9	1003.3	287.9	159.3	138.3	133.0	140.4	146.9	152.3	155.0	157.9
40°	1349.3	1013.7	230.8	149.8	130.7	124.0	127.0	129.4	132.7	135.5	136.7
42.5°	1445.6	1045.1	206.8	146.2	126.7	116.9	116.2	117.1	121.6	126.7	127.6
45°	1580.3	1100.3	205.2	148.5	124.7	111.1	108.2	109.5	116.2	124.0	125.4
47.5°	1752.5	1184.5	218.6	155.5	126.3	108.2	103.0	104.7	113.1	123.5	125.4
50°	1960.9	1302.2	241.1	166.0	133.7	108.8	101.4	102.3	111.1	122.6	124.2
52.5°	2207.1	1468.9	265.8	176.2	141.5	113.1	102.8	100.4	108.4	118.5	120.6
55°	2480.9	1682.7	291.1	185.2	145.4	118.5	105.5	97.6	103.5	111.7	113.5
57.5°	2817.2	1981.8	334.8	194.0	148.2	122.3	108.2	95.0	96.9	103.0	104.5
60°	3272.2	2404.9	412.0	208.4	154.2	123.5	107.7	92.6	90.5	94.0	94.6
62.5°	3817.4	2864.2	476.2	226.7	164.4	124.7	105.8	91.0	85.2	85.2	85.9
65°	4141.0	2987.3	440.6	241.9	172.7	123.5	103.5	89.2	81.1	77.4	77.9
67.5°	3866.7	2627.2	377.6	244.9	172.5	118.8	99.7	86.2	77.2	71.4	71.1
69°	3522.8	2266.8	349.4	236.8	164.4	112.8	95.0	82.9	74.1	68.0	67.7
70°	3245.5	2046.8	330.8	228.0	155.5	108.4	91.3	79.8	71.8	66.0	65.3
72.5°	2359.7	1341.2	282.5	196.0	128.3	91.0	78.8	70.1	64.0	60.6	59.9
75°	1179.1	639.7	229.3	159.0	98.4	72.8	64.7	58.6	55.5	54.8	54.5
77.5°	387.3	293.0	164.0	118.5	73.1	57.0	52.2	47.8	47.2	49.1	48.5
80°	212.9	170.4	104.1	78.5	49.9	41.9	41.1	38.7	39.7	43.1	42.4
82.5°	108.4	88.7	64.3	47.2	33.6	30.0	32.7	31.4	32.7	35.8	35.4
85°	53.5	48.5	40.8	28.7	22.2	19.3	23.3	24.3	25.0	27.3	27.3
87.5°	31.0	28.7	21.6	13.5	11.0	10.2	13.5	13.1	15.5	16.9	16.4
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)