

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: P299235

Luminaire Tested: **GLNA-AF-04-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-T3-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12866.6 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full 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

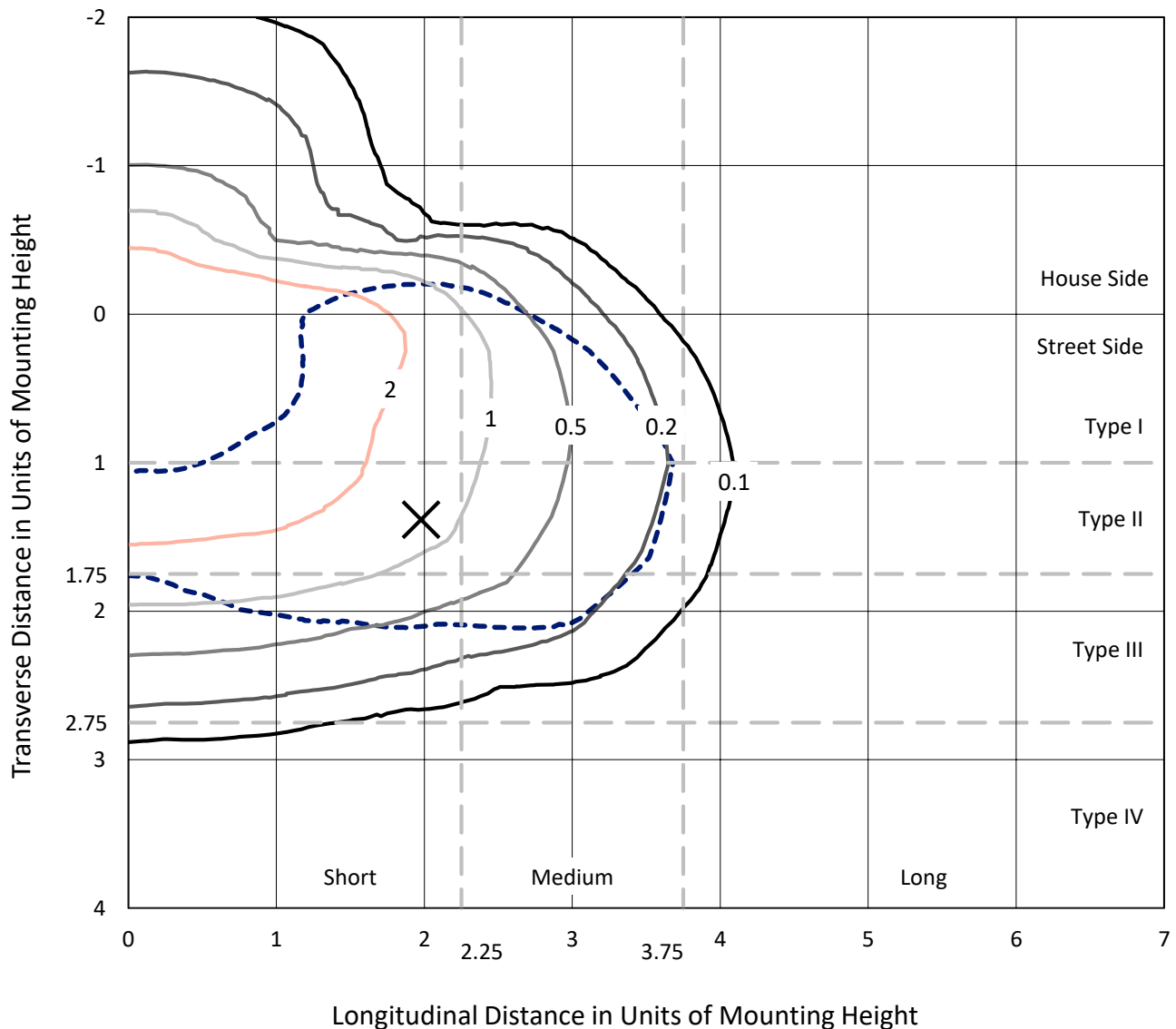


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

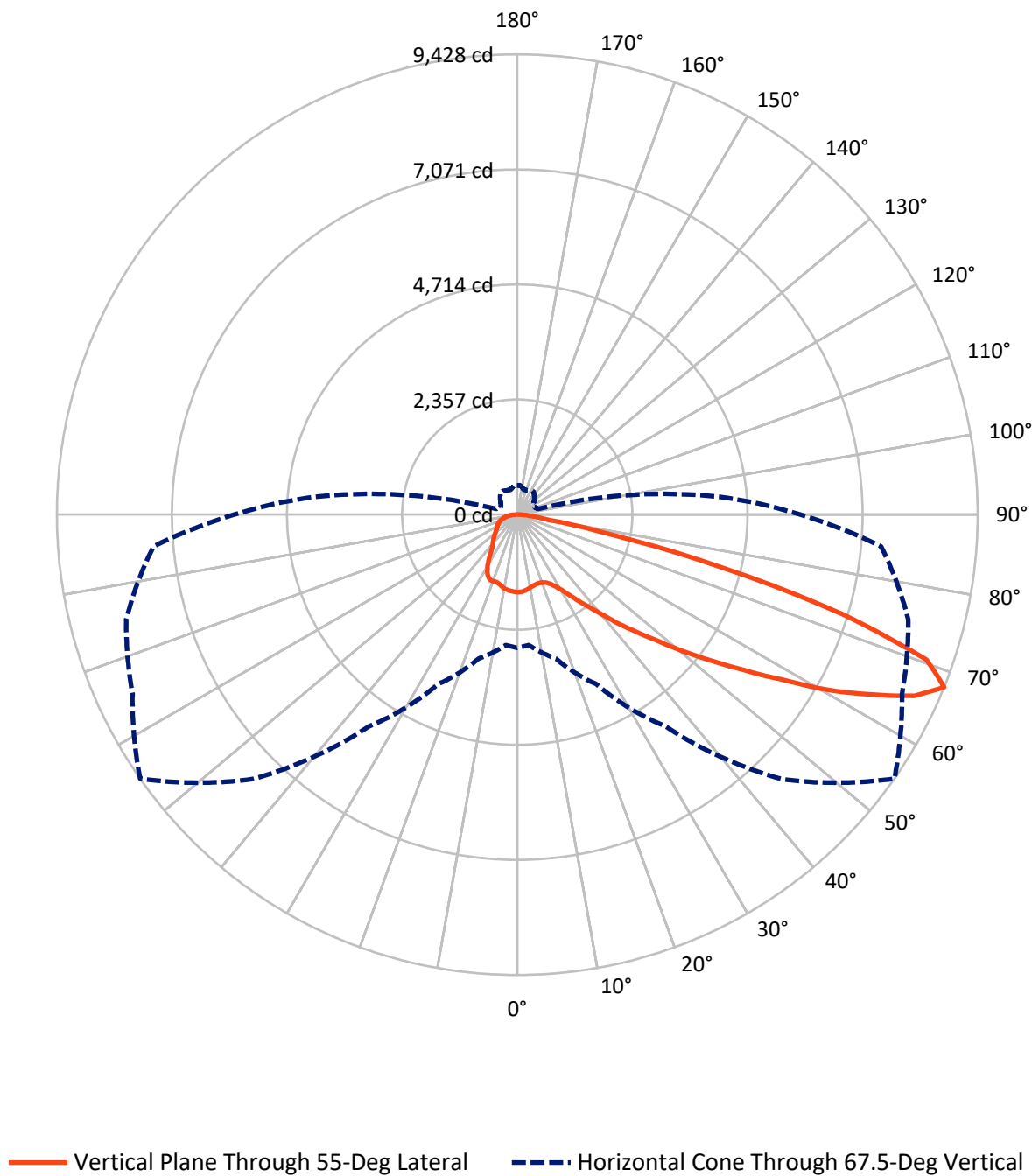


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2779.5	0.0	2779.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10087.2	0.0	10087.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	12866.6	0.0	12866.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.2
10°-20°	419.4	3.3
20°-30°	702.6	5.5
30°-40°	1155.3	9.0
40°-50°	1944.8	15.1
50°-60°	3061.0	23.8
60°-70°	3652.9	28.4
70°-80°	1568.6	12.2
80°-90°	213.9	1.7
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°	12866.6	100.0
0°-180°	12866.6	100.0

Coefficient of Utilization



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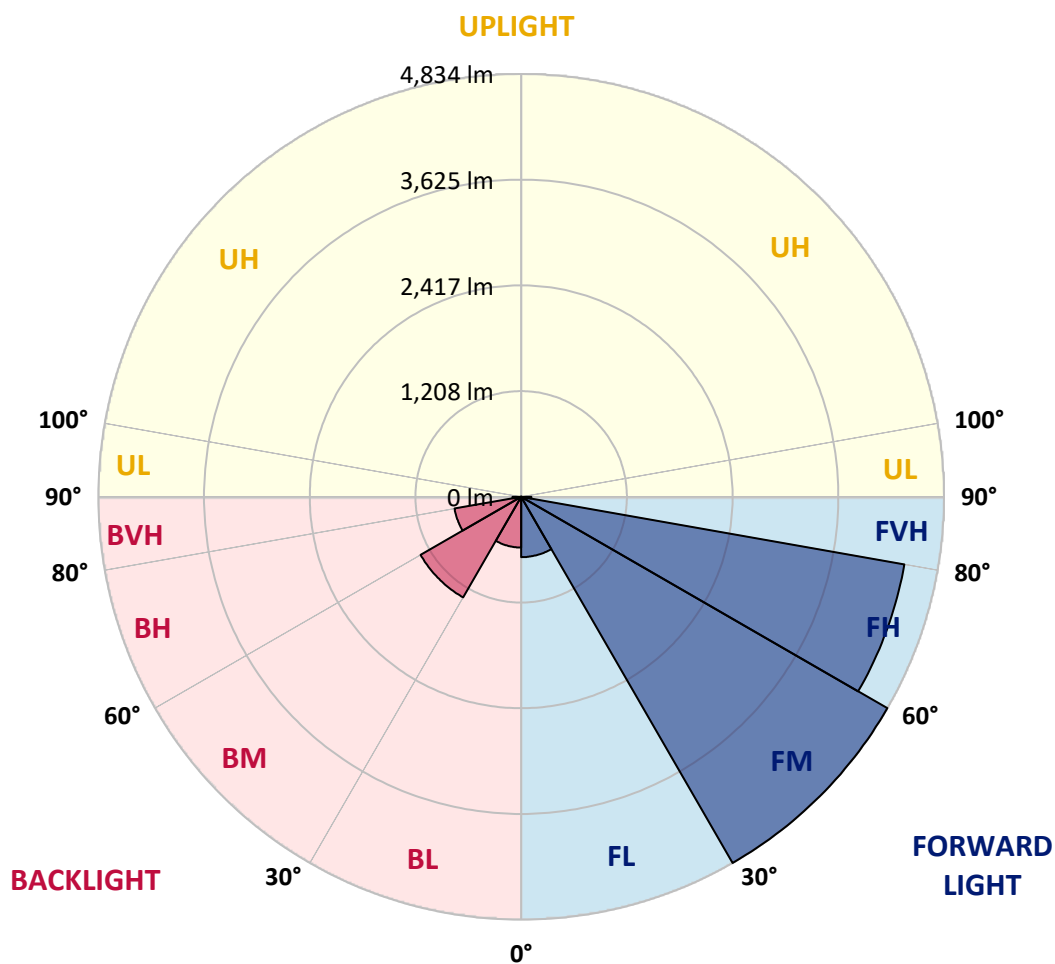
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	689.7	5.4			
FM	(30°-60°)	4833.7	37.6			
FH	(60°-80°)	4448.1	34.6			G2/5000
FVH	(80°-90°)	115.8	0.9			G2/225
BL	(0°-30°)	580.4	4.5	B2/1000		
BM	(30°-60°)	1327.4	10.3	B2/2500		
BH	(60°-80°)	773.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	98.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
2.5°	1572.9	1573.5	1574.8	1579.8	1584.1	1582.9	1583.5	1581.0	1580.4	1576.7	1580.4
5°	1553.0	1554.9	1555.5	1563.6	1568.6	1569.8	1568.0	1564.8	1561.1	1557.4	1559.3
7.5°	1507.7	1512.6	1513.3	1524.4	1532.5	1543.1	1543.7	1544.3	1542.5	1540.0	1543.7
10°	1479.1	1480.3	1479.7	1487.8	1494.0	1505.8	1512.6	1524.4	1529.4	1530.7	1533.1
12.5°	1477.2	1476.0	1474.1	1474.1	1472.2	1477.2	1489.6	1506.4	1518.2	1522.0	1525.1
15°	1497.1	1496.5	1490.3	1480.9	1469.1	1465.4	1476.0	1494.6	1510.2	1518.2	1521.3
17.5°	1541.9	1538.1	1528.2	1507.0	1481.6	1471.6	1472.9	1488.4	1506.4	1517.0	1520.1
20°	1623.9	1623.9	1602.8	1563.0	1517.6	1494.0	1482.8	1492.1	1509.5	1523.8	1528.2
22.5°	1765.6	1766.8	1731.4	1666.1	1589.7	1539.4	1511.4	1509.5	1530.0	1546.2	1551.2
25°	1966.3	1961.3	1911.6	1818.4	1702.2	1618.9	1570.4	1559.3	1576.7	1594.7	1600.9
27.5°	2200.0	2182.0	2122.9	2010.4	1860.0	1738.2	1663.7	1645.6	1662.4	1682.9	1689.1
30°	2431.2	2412.5	2342.3	2219.2	2052.1	1897.9	1791.1	1761.8	1785.5	1814.7	1818.4
32.5°	2662.3	2662.3	2584.0	2440.5	2258.4	2088.7	1960.7	1925.9	1965.1	2000.5	2008.6
35°	2938.9	2940.1	2864.3	2691.6	2495.8	2316.2	2175.1	2149.6	2208.7	2233.5	2252.8
37.5°	3278.8	3285.7	3188.1	2979.3	2764.9	2576.0	2408.2	2373.4	2432.4	2500.1	2562.3
40°	3646.1	3654.8	3547.3	3290.0	3075.6	2878.0	2696.5	2633.8	2732.0	2861.2	2941.4
42.5°	3996.6	4041.4	3937.6	3672.8	3442.3	3237.8	3053.9	2962.5	3085.6	3280.7	3350.3
45°	4503.1	4535.4	4354.6	4114.7	3897.8	3669.1	3425.5	3329.2	3501.3	3747.4	3761.7
47.5°	4840.6	4816.3	4724.4	4575.2	4437.9	4224.1	3857.4	3751.8	3980.5	4270.1	4189.9
50°	5020.2	5027.6	5015.2	5023.9	5028.9	4894.6	4386.9	4242.1	4514.9	4864.8	4680.2
52.5°	5188.0	5138.3	5179.3	5383.1	5629.2	5579.5	4963.0	4812.0	5087.9	5524.8	5198.5
55°	5184.2	5108.4	5242.0	5601.9	6135.7	6192.9	5609.9	5435.9	5693.8	6232.7	5747.9
57.5°	5000.9	5004.6	5210.3	5681.4	6488.7	6769.6	6360.7	6099.7	6336.4	6949.8	6249.4
60°	4748.6	4782.8	5079.2	5668.4	6771.5	7242.5	7281.7	6815.0	6966.0	7601.7	6664.6
62.5°	4341.5	4377.6	4786.5	5532.9	6728.6	7698.1	8114.4	7626.6	7624.1	7997.0	6786.4
65°	3699.6	3689.0	4118.4	5026.4	6368.8	8034.9	8941.6	8328.2	8120.0	8003.2	6541.5
67.5°	2728.2	2681.0	3049.5	3828.2	5293.6	7657.7	9428.2	8693.6	8289.1	7476.8	5793.3
70°	1415.7	1368.5	1666.8	2235.4	3481.4	5976.6	8889.4	8504.7	7915.6	6267.5	4538.5
72.5°	605.3	597.2	718.4	980.7	1684.2	3447.3	6970.3	7361.2	6792.0	4669.7	3120.4
75°	407.1	404.6	449.9	534.5	757.6	1398.9	4362.1	5225.3	4969.2	2895.4	1755.0
77.5°	319.4	316.3	343.0	384.1	491.0	551.9	1935.9	2805.3	2596.5	1260.3	768.1
80°	249.8	247.3	264.1	286.5	353.0	348.0	637.0	1116.1	863.8	482.9	373.5
82.5°	197.0	197.0	210.7	211.3	250.4	237.4	332.5	491.6	431.3	281.5	228.7
85°	180.2	180.2	194.5	157.9	163.4	149.8	206.3	291.5	273.4	115.6	99.4
87.5°	90.7	88.2	163.4	139.8	88.9	79.5	100.7	141.1	151.6	64.0	49.7
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°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
2.5°	1579.1	1578.5	1579.8	1580.4	1585.4	1592.2	1595.3	1599.6	1602.1	1600.9
5°	1560.5	1561.7	1566.7	1570.4	1579.1	1590.3	1596.5	1601.5	1605.9	1604.0
7.5°	1545.0	1548.1	1555.5	1558.6	1563.6	1566.7	1566.1	1568.0	1571.7	1567.3
10°	1536.3	1540.0	1545.6	1541.2	1529.4	1512.6	1497.1	1489.0	1491.5	1488.4
12.5°	1527.6	1532.5	1528.2	1507.7	1474.7	1453.0	1441.2	1442.4	1448.0	1449.3
15°	1522.6	1524.4	1505.8	1467.3	1433.7	1430.6	1436.8	1435.6	1436.2	1436.2
17.5°	1522.6	1517.6	1482.8	1444.3	1430.0	1424.4	1405.1	1380.9	1370.3	1366.6
20°	1530.7	1517.6	1475.4	1449.9	1418.8	1370.9	1320.0	1275.2	1255.4	1249.8
22.5°	1554.9	1532.5	1496.5	1452.4	1364.1	1283.9	1203.2	1149.7	1113.7	1107.4
25°	1604.0	1579.1	1538.1	1419.4	1277.1	1162.8	1070.8	1011.1	975.1	970.1
27.5°	1689.8	1673.6	1560.5	1346.7	1161.5	1039.1	953.9	908.0	881.2	879.4
30°	1819.0	1810.9	1549.3	1239.2	1019.2	919.1	878.1	851.4	831.5	830.9
32.5°	2025.3	1960.1	1512.6	1108.1	889.3	834.0	817.2	801.1	785.5	785.5
35°	2290.7	2080.7	1443.0	967.6	810.4	786.8	765.6	740.2	719.7	718.4
37.5°	2602.7	2155.2	1318.1	854.5	773.1	755.1	724.0	686.1	650.1	643.8
40°	2917.8	2177.6	1142.2	784.9	749.5	723.4	685.5	640.7	605.9	604.1
42.5°	3206.8	2134.7	955.8	737.1	725.9	691.1	651.3	611.5	584.2	583.6
45°	3449.1	2023.5	799.2	691.7	701.0	661.9	626.4	594.1	573.0	568.6
47.5°	3677.2	1866.3	689.2	643.8	676.2	645.7	615.9	585.4	564.9	561.8
50°	3941.9	1696.6	612.1	597.2	654.4	640.1	624.6	592.9	558.7	555.0
52.5°	4262.6	1549.9	551.9	556.2	637.6	647.6	646.9	614.0	554.3	549.4
55°	4620.6	1387.1	506.5	522.7	630.8	661.2	652.5	633.9	558.1	550.6
57.5°	4972.9	1196.9	474.8	497.2	620.8	660.0	625.8	599.1	566.8	556.2
60°	5237.1	941.5	450.6	474.8	599.1	639.5	596.6	561.2	564.9	556.8
62.5°	5254.5	727.7	421.4	455.5	566.2	619.0	577.3	544.4	573.0	565.5
65°	4945.6	550.0	393.4	432.5	530.7	605.9	558.7	535.1	589.8	581.7
67.5°	4163.8	442.5	369.8	408.9	495.3	578.6	541.9	526.4	604.7	590.4
70°	3006.0	377.2	346.8	380.3	463.6	547.5	527.0	510.8	564.3	541.9
72.5°	1850.7	326.9	320.7	342.4	439.4	515.2	504.6	481.6	508.4	490.3
75°	924.1	283.4	291.5	305.1	405.2	478.5	467.3	444.3	448.1	444.3
77.5°	442.5	242.4	257.3	267.9	361.1	436.9	425.1	401.5	397.1	397.7
80°	280.3	202.6	216.9	224.3	322.5	388.4	376.6	353.0	402.7	373.5
82.5°	175.3	164.7	168.4	182.1	280.9	338.1	322.5	301.4	362.9	287.1
85°	96.9	115.0	119.9	131.8	216.3	282.8	267.2	240.5	215.6	211.9
87.5°	57.8	68.4	70.2	78.9	145.4	204.5	180.8	171.5	142.3	141.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)