

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: P940087

Luminaire Tested: **GALN-SB3A-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12492 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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

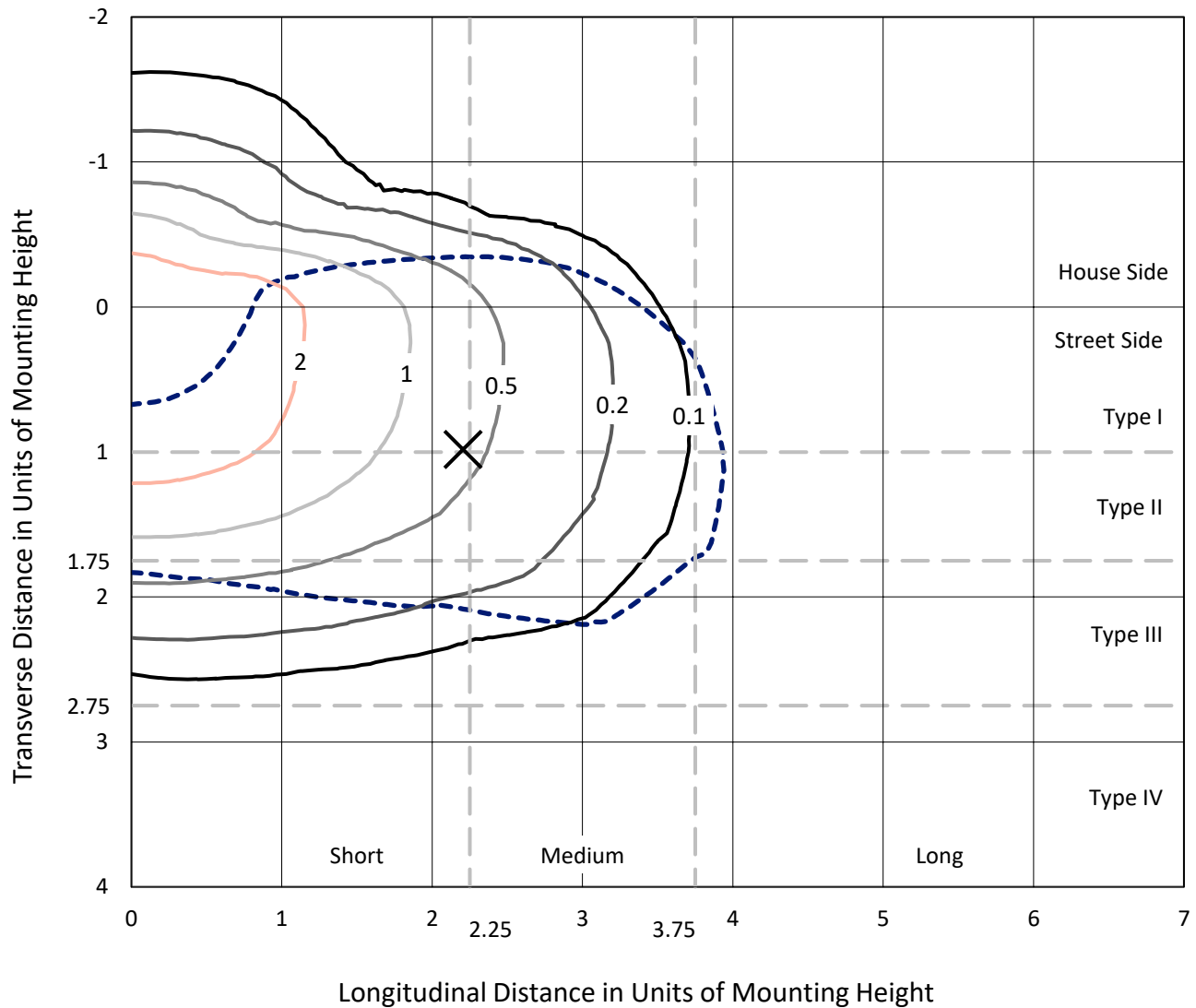


REPORT NUMBER: P940087

CATALOG NUMBER: GALN-SB3A-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

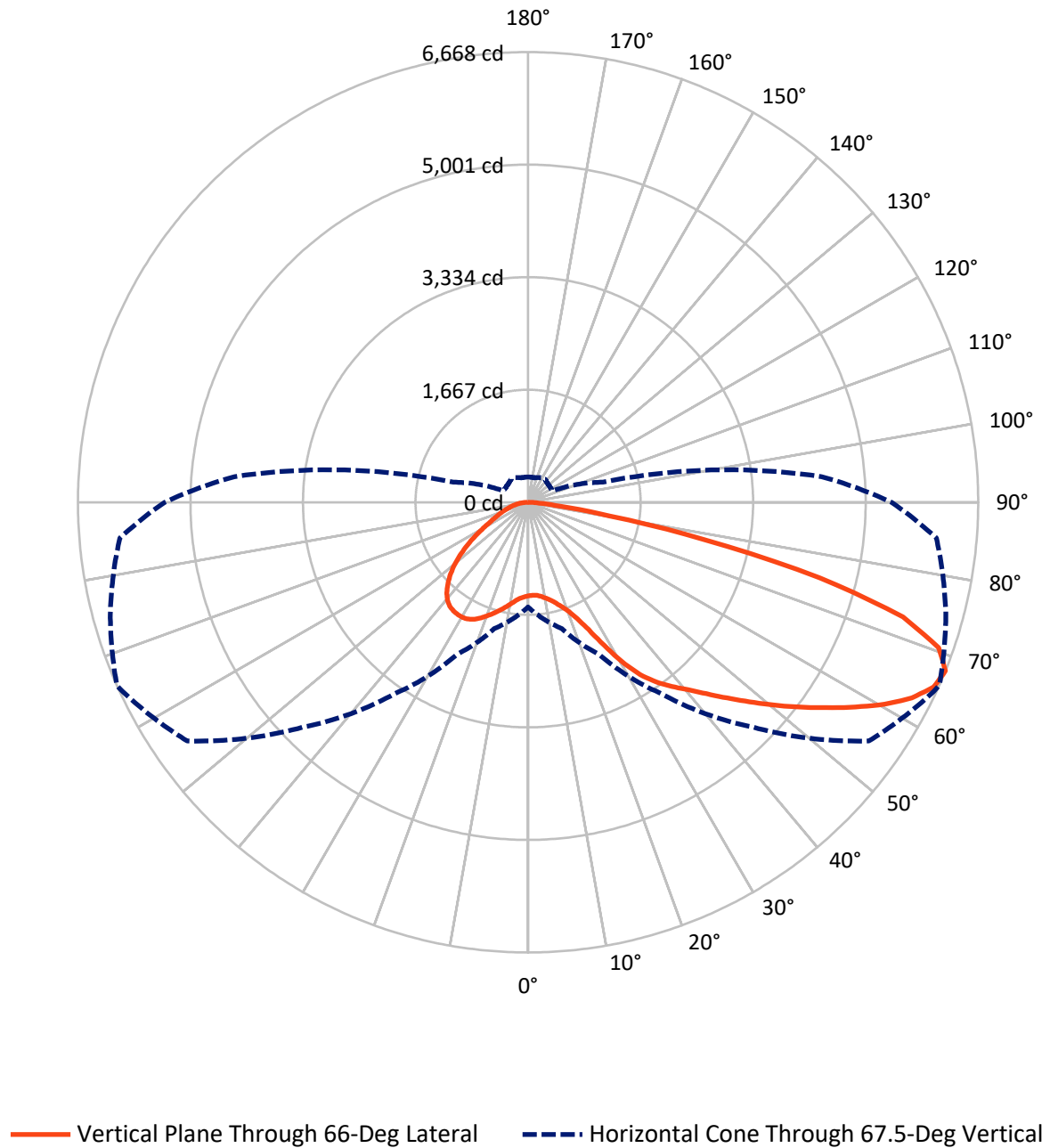


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Short - N/A

REPORT NUMBER: P940087

CATALOG NUMBER: GALN-SB3A-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P940087

CATALOG NUMBER: GALN-SB3A-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3106.1	0.0	3106.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	9385.9	0.0	9385.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	12492.0	0.0	12492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	1.1
10°-20°	453.9	3.6
20°-30°	874.8	7.0
30°-40°	1533.8	12.3
40°-50°	2280.3	18.3
50°-60°	2890.4	23.1
60°-70°	2828.2	22.6
70°-80°	1349.1	10.8
80°-90°	144.2	1.2
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°	12492.0	100.0
0°-180°	12492.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940087

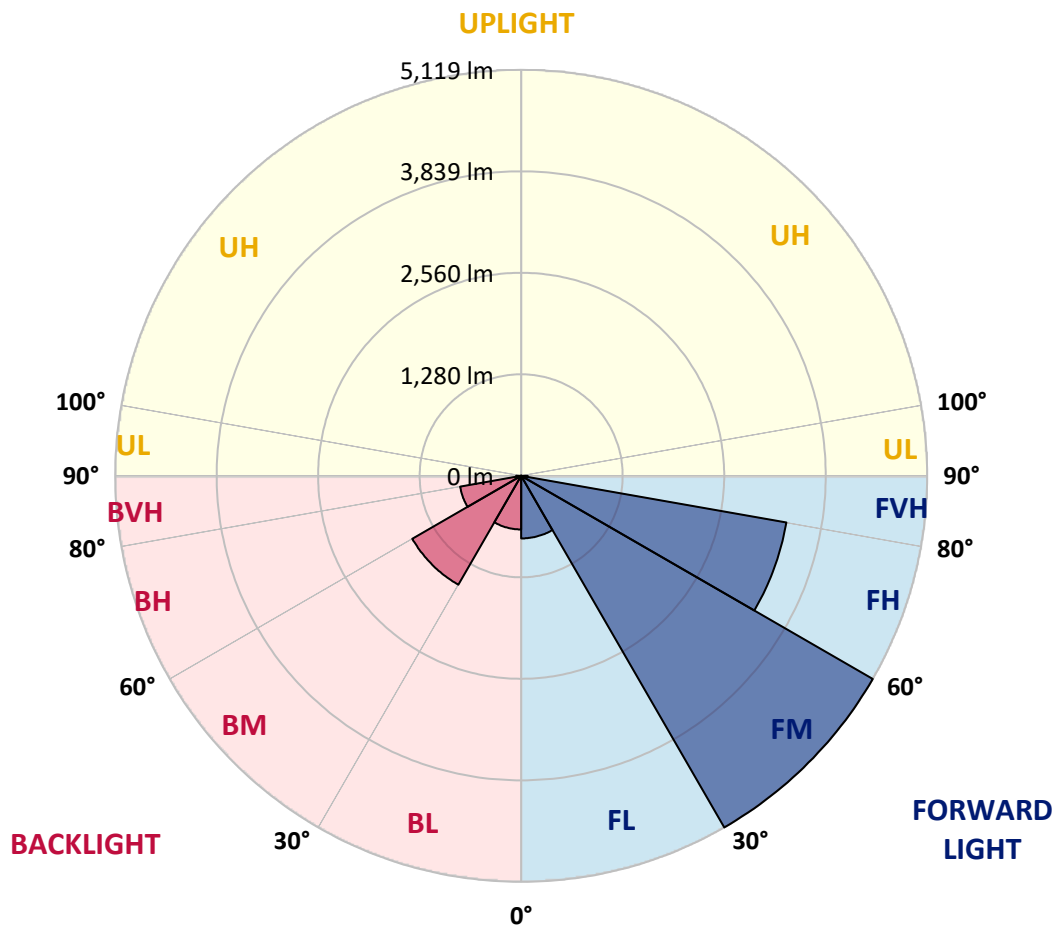
CATALOG NUMBER: GALN-SB3A-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.4	6.3			
FM	(30°-60°)	5119.1	41.0			
FH	(60°-80°)	3395.7	27.2			G2/5000
FVH	(80°-90°)	81.7	0.7			G1/100
BL	(0°-30°)	676.6	5.4	B2/1000		
BM	(30°-60°)	1585.4	12.7	B2/2500		
BH	(60°-80°)	781.6	6.3	B2/1000		G2/1000
BVH	(80°-90°)	62.4	0.5			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



REPORT NUMBER: P940087

CATALOG NUMBER: GALN-SB3A-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5
2.5°	1371.1	1379.0	1377.0	1373.7	1373.1	1374.4	1376.3	1378.3	1377.7	1380.9	1386.2
5°	1367.2	1375.0	1374.4	1374.4	1377.0	1382.2	1385.5	1388.8	1385.5	1389.5	1396.7
7.5°	1369.8	1375.7	1378.3	1380.9	1387.5	1397.3	1405.2	1412.4	1408.5	1413.1	1422.3
10°	1403.2	1407.8	1410.5	1410.5	1415.1	1426.2	1434.1	1447.2	1443.9	1451.2	1463.0
12.5°	1464.3	1468.9	1468.9	1466.3	1469.5	1476.8	1479.4	1493.8	1487.9	1499.7	1511.5
15°	1539.1	1548.3	1541.1	1536.5	1537.8	1545.0	1544.4	1555.5	1549.6	1559.5	1570.0
17.5°	1621.8	1633.6	1621.8	1621.2	1618.5	1626.4	1627.1	1636.9	1626.4	1633.6	1640.8
20°	1719.6	1736.0	1726.2	1729.4	1723.5	1726.8	1730.1	1744.5	1728.1	1733.4	1731.4
22.5°	1857.4	1877.1	1866.6	1879.1	1875.2	1872.5	1871.9	1897.5	1871.9	1873.8	1854.8
25°	2058.3	2081.9	2063.5	2080.6	2080.6	2089.1	2099.0	2131.8	2089.1	2076.7	2027.4
27.5°	2354.9	2378.6	2342.5	2353.0	2349.7	2370.7	2360.2	2441.6	2395.6	2375.3	2276.2
30°	2712.0	2754.0	2685.7	2683.1	2679.8	2713.3	2728.4	2782.2	2735.6	2715.3	2595.8
32.5°	3097.9	3141.9	3060.5	3036.9	3024.4	3044.7	3032.3	3075.6	3043.4	3011.9	2864.3
35°	3506.2	3549.5	3472.0	3426.1	3376.2	3333.5	3288.9	3300.1	3269.9	3222.0	3069.0
37.5°	3892.1	3971.5	3889.5	3840.2	3748.3	3665.0	3540.3	3488.4	3460.2	3416.2	3262.0
40°	4285.2	4330.5	4268.2	4226.2	4126.4	3995.8	3796.3	3686.6	3648.6	3605.9	3475.3
42.5°	4574.7	4618.0	4584.5	4555.6	4477.5	4325.9	4068.0	3930.8	3875.7	3827.8	3716.8
45°	4804.4	4836.5	4815.5	4826.0	4792.6	4645.6	4349.5	4192.7	4135.6	4077.2	3989.9
47.5°	4896.9	4931.1	4964.5	5026.9	5084.0	4975.7	4652.1	4476.2	4415.8	4356.1	4270.1
50°	4886.4	4921.2	5018.4	5150.9	5328.1	5292.0	4971.1	4778.1	4722.3	4654.1	4574.7
52.5°	4802.4	4841.8	4966.5	5187.0	5469.3	5529.0	5296.0	5089.9	5037.4	4956.0	4876.6
55°	4581.9	4605.5	4792.6	5105.0	5502.7	5694.4	5614.3	5422.0	5369.5	5255.9	5169.3
57.5°	4173.0	4207.1	4479.5	4883.8	5418.7	5806.6	5893.9	5771.2	5720.6	5557.2	5466.6
60°	3639.4	3693.9	4005.6	4512.3	5204.8	5806.0	6147.9	6114.4	6072.4	5853.9	5759.4
62.5°	3035.6	3098.6	3398.5	3987.2	4830.6	5641.2	6306.7	6401.9	6380.3	6127.6	6006.8
65°	2331.3	2374.6	2673.3	3307.9	4248.5	5287.5	6325.1	6598.2	6602.1	6335.6	6136.1
67.5°	1552.2	1676.9	1936.2	2482.3	3468.7	4709.2	6163.7	6630.3	6668.4	6407.2	6071.1
70°	757.4	921.5	1175.5	1613.3	2482.3	3822.5	5741.6	6366.5	6451.1	6198.4	5683.9
72.5°	314.4	367.5	506.0	796.1	1424.9	2579.4	4893.7	5651.1	5807.9	5492.2	4778.8
75°	212.0	229.7	289.4	408.2	649.1	1272.0	3529.1	4213.7	4466.4	4148.1	3390.6
77.5°	163.4	174.6	210.7	285.5	385.9	481.1	1888.9	2539.4	2670.0	2471.8	1764.2
80°	128.6	137.2	157.5	208.1	273.7	257.3	643.9	1150.6	1226.0	1028.5	567.1
82.5°	111.6	114.9	112.9	141.1	181.8	150.3	211.3	424.7	468.6	340.0	185.1
85°	80.7	89.9	93.9	87.3	96.5	76.1	86.6	150.3	165.4	147.7	104.4
87.5°	32.8	48.6	59.7	56.4	35.4	21.7	26.9	44.0	50.5	55.1	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940087

CATALOG NUMBER: GALN-SB3A-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5	1385.5
2.5°	1386.8	1391.4	1394.7	1398.7	1401.3	1405.2	1413.1	1417.7	1418.3	1421.6	1421.0
5°	1399.3	1405.9	1413.1	1423.6	1435.4	1445.3	1460.4	1470.9	1474.8	1478.1	1477.4
7.5°	1426.2	1435.4	1448.5	1466.9	1484.0	1497.1	1515.5	1528.0	1540.4	1545.0	1545.7
10°	1466.3	1479.4	1498.4	1523.4	1541.7	1558.8	1577.8	1588.3	1600.8	1606.1	1608.7
12.5°	1516.1	1529.9	1554.9	1589.6	1606.7	1618.5	1625.1	1622.5	1625.1	1629.7	1631.0
15°	1573.2	1588.3	1616.6	1654.0	1665.8	1655.3	1640.8	1627.7	1625.7	1627.1	1631.7
17.5°	1640.8	1652.0	1684.8	1716.3	1707.8	1664.5	1633.0	1612.0	1601.5	1598.2	1602.8
20°	1735.4	1735.4	1762.3	1782.0	1724.9	1651.3	1602.1	1568.0	1546.3	1537.1	1535.2
22.5°	1850.2	1839.7	1856.8	1843.0	1721.6	1614.6	1546.3	1487.3	1454.4	1441.3	1439.3
25°	1995.9	1983.5	1978.9	1893.5	1697.9	1556.2	1445.3	1373.7	1344.8	1337.6	1338.9
27.5°	2215.8	2184.3	2124.6	1921.1	1654.6	1464.3	1327.1	1260.8	1244.4	1245.1	1247.0
30°	2508.5	2445.5	2299.1	1925.7	1583.7	1334.3	1206.3	1159.1	1151.2	1154.5	1165.7
32.5°	2779.6	2719.9	2477.7	1904.7	1474.8	1207.0	1098.1	1066.5	1054.7	1058.7	1063.9
35°	2992.2	2975.8	2643.1	1875.2	1340.9	1087.6	1000.9	974.0	951.0	945.8	949.7
37.5°	3193.1	3186.5	2767.1	1833.8	1208.3	1002.9	922.8	887.4	853.9	835.5	836.2
40°	3413.6	3407.0	2848.5	1770.1	1090.8	929.4	852.6	806.0	764.6	731.2	734.4
42.5°	3661.7	3623.0	2887.2	1678.9	991.1	867.0	795.5	732.5	678.0	647.1	649.1
45°	3932.8	3845.5	2886.6	1562.7	907.1	809.9	734.4	645.2	594.6	565.8	564.5
47.5°	4220.2	4058.1	2851.1	1434.1	825.7	746.9	639.9	571.7	538.2	520.5	516.5
50°	4516.9	4257.0	2790.7	1286.4	742.3	675.4	580.9	534.3	508.7	492.3	486.3
52.5°	4795.9	4437.5	2717.9	1119.1	657.6	605.8	554.6	518.5	491.6	473.2	465.3
55°	5055.1	4593.0	2614.8	947.8	588.7	559.2	542.1	511.9	481.1	459.4	450.9
57.5°	5285.5	4694.1	2437.0	786.9	539.5	527.0	529.0	500.8	465.3	447.0	435.2
60°	5477.1	4768.3	2173.8	638.0	499.5	495.5	508.7	479.8	438.4	417.4	408.2
62.5°	5592.0	4767.0	1850.9	522.4	465.3	466.7	481.8	453.5	411.5	391.8	385.9
65°	5582.1	4650.1	1496.4	447.0	432.5	433.8	453.5	424.7	389.2	377.4	376.7
67.5°	5384.6	4365.3	1147.9	397.7	396.4	402.3	425.3	405.0	375.4	374.1	376.1
70°	4849.7	3773.9	827.0	358.4	359.0	367.5	397.7	392.5	368.2	370.8	370.2
72.5°	3888.8	2877.4	555.3	317.0	317.7	331.5	371.5	382.6	361.0	395.8	401.0
75°	2589.9	1794.4	357.0	273.0	273.7	291.4	348.5	363.6	341.3	394.5	397.7
77.5°	1244.4	806.6	258.6	229.7	229.7	246.1	301.3	325.5	290.8	306.5	280.9
80°	429.9	303.2	203.5	185.1	181.1	192.3	254.0	282.2	250.7	231.0	216.6
82.5°	169.3	157.5	163.4	143.7	130.6	137.8	197.6	233.0	184.4	166.7	166.1
85°	97.1	102.4	115.5	95.2	75.5	84.7	145.1	167.4	139.1	122.7	125.4
87.5°	26.3	36.1	53.2	49.2	34.1	36.1	68.9	92.5	80.1	61.7	63.7
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)