

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: P940768

Luminaire Tested: **GALN-SB4A-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12626 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 114
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



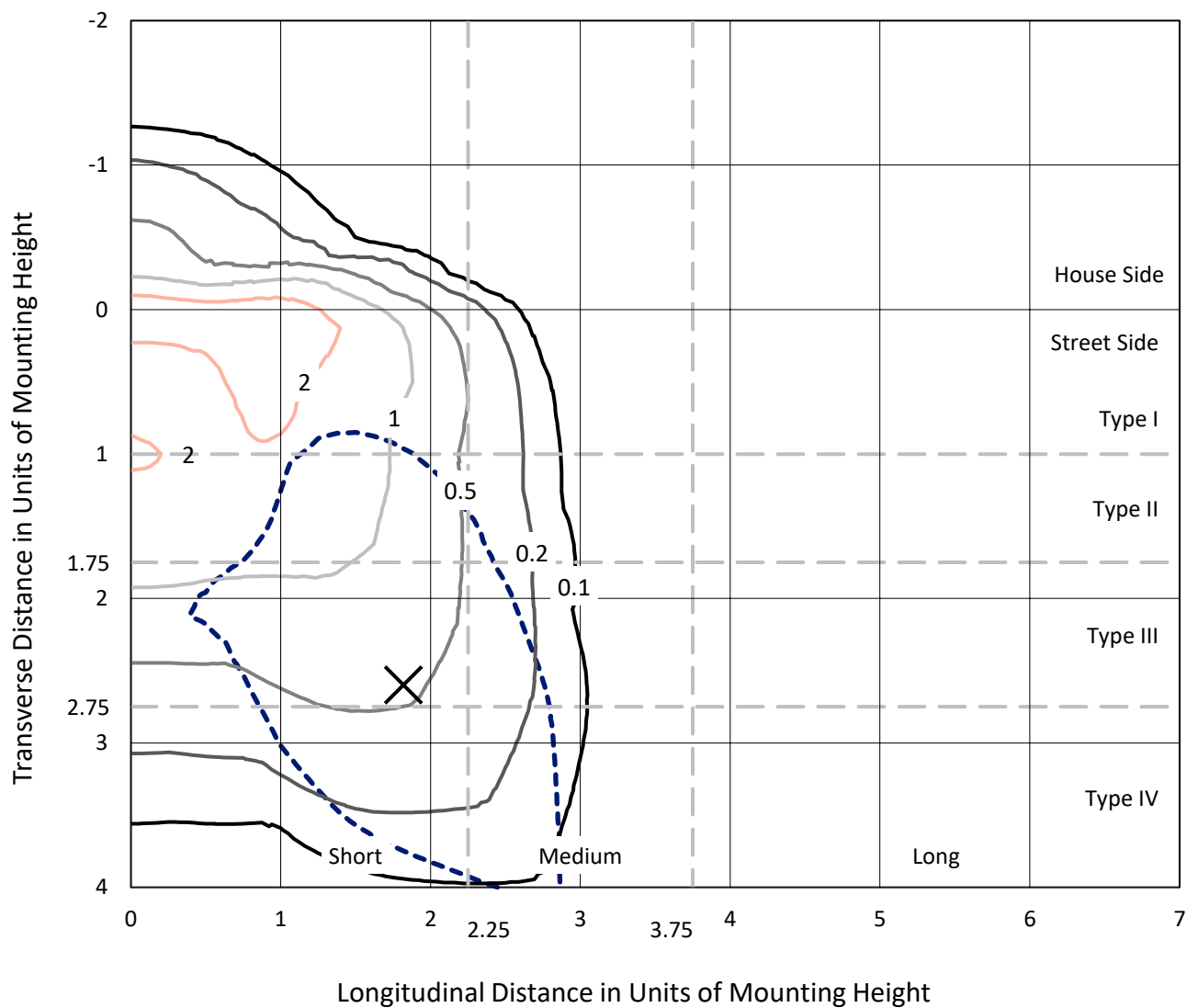
REPORT NUMBER: P940768

CATALOG NUMBER: GALN-SB4A-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

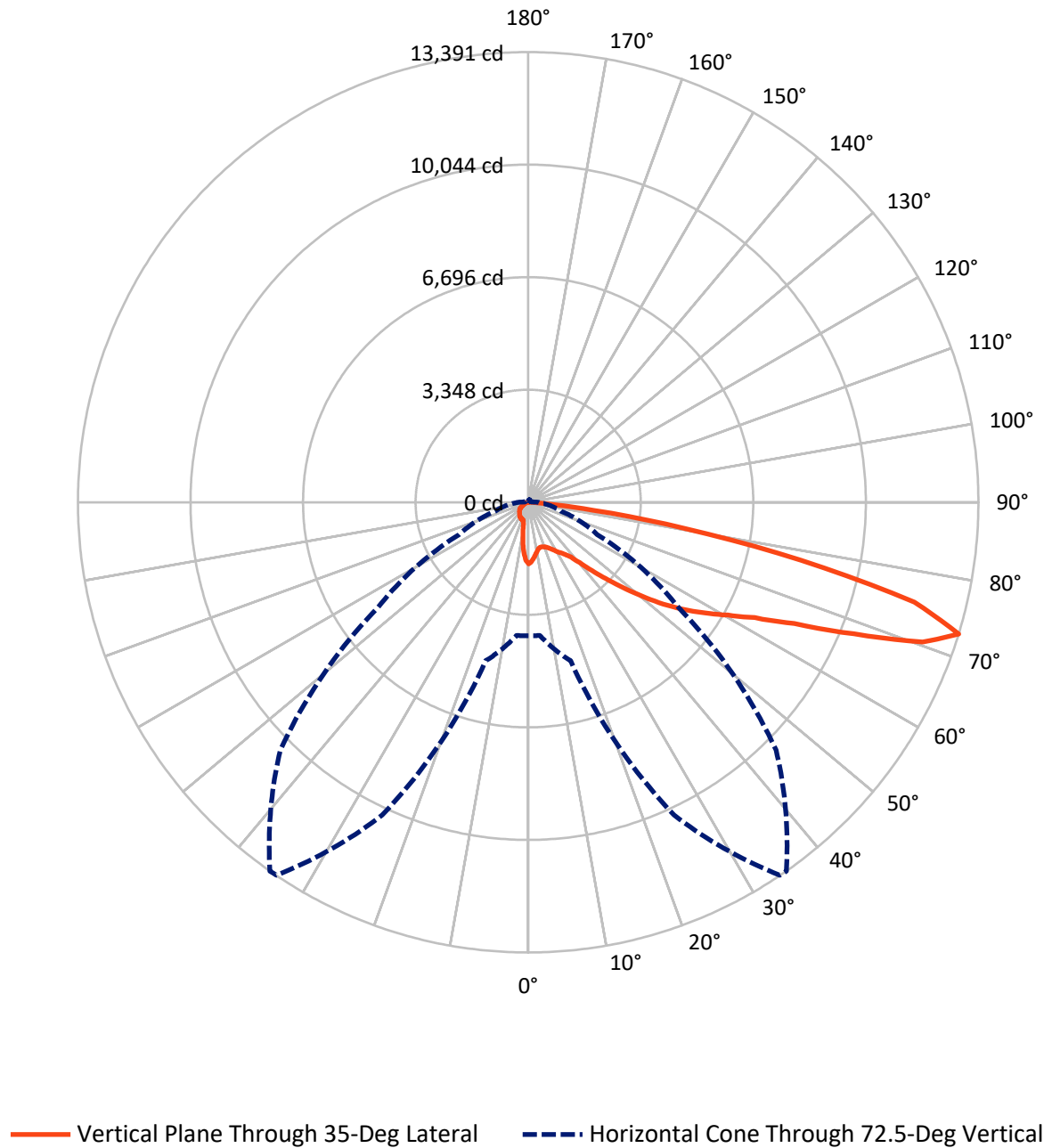
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type IV - Short - N/A

REPORT NUMBER: P940768
CATALOG NUMBER: GALN-SB4A-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P940768

CATALOG NUMBER: GALN-SB4A-727-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1421.0	0.0	1421.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	11205.0	0.0	11205.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	12626.0	0.0	12626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	1.2
10°-20°	351.8	2.8
20°-30°	571.5	4.5
30°-40°	953.5	7.6
40°-50°	1804.0	14.3
50°-60°	2866.5	22.7
60°-70°	3546.1	28.1
70°-80°	2204.3	17.5
80°-90°	178.1	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°	12626.0	100.0
0°-180°	12626.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940768

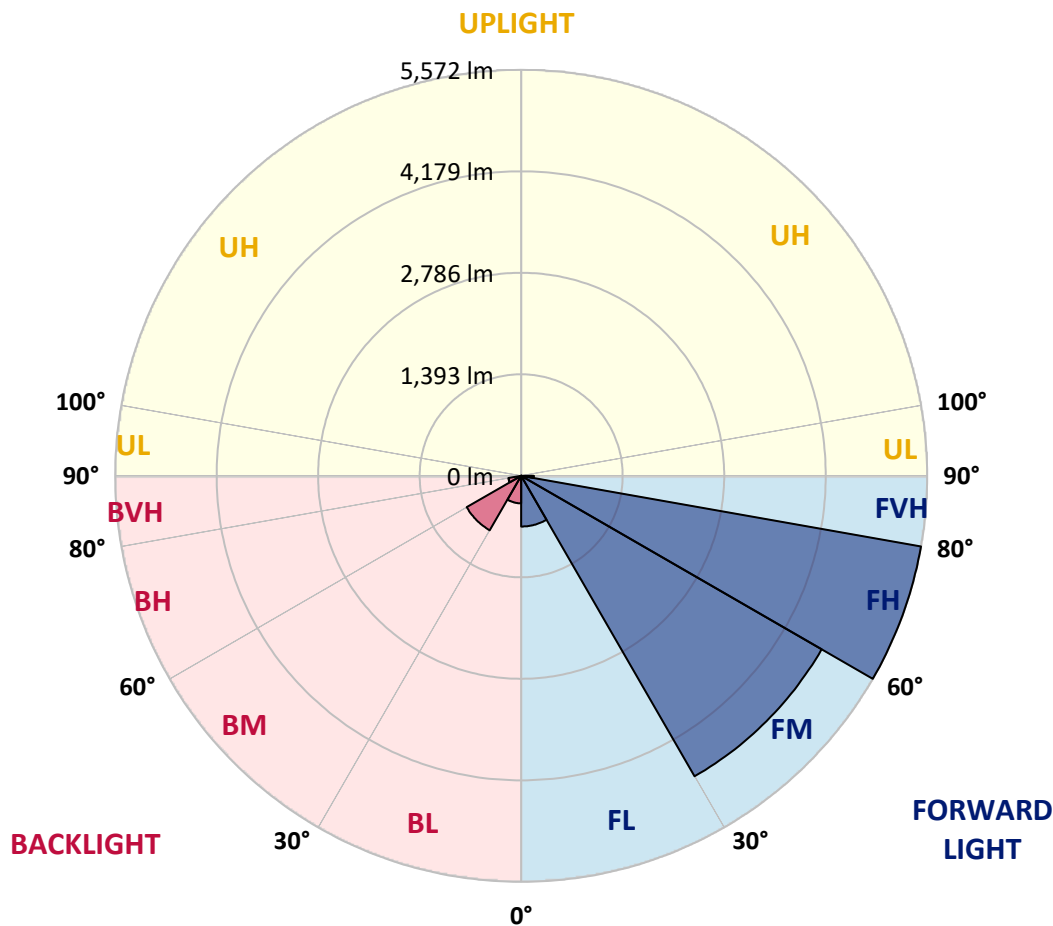
CATALOG NUMBER: GALN-SB4A-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.0	5.5			
FM	(30°-60°)	4761.3	37.7			
FH	(60°-80°)	5572.0	44.1			G3/7500
FVH	(80°-90°)	175.7	1.4			G2/225
BL	(0°-30°)	377.6	3.0	B1/500		
BM	(30°-60°)	862.7	6.8	B1/1000		
BH	(60°-80°)	178.3	1.4	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P940768

CATALOG NUMBER: GALN-SB4A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9
2.5°	1748.5	1763.3	1766.1	1770.7	1770.7	1776.3	1785.5	1798.5	1819.8	1830.9	1838.3
5°	1611.6	1622.7	1636.6	1647.7	1669.0	1671.7	1707.8	1743.0	1792.0	1829.0	1854.9
7.5°	1473.8	1486.7	1505.2	1532.0	1559.8	1568.1	1622.7	1681.9	1759.6	1829.0	1872.5
10°	1376.6	1377.5	1394.2	1421.0	1465.4	1475.6	1542.2	1626.4	1723.5	1817.9	1889.1
12.5°	1322.0	1328.5	1335.9	1356.3	1398.8	1405.3	1476.5	1575.5	1687.5	1811.4	1908.6
15°	1322.0	1326.7	1331.3	1341.5	1375.7	1381.2	1444.1	1543.1	1669.0	1814.2	1940.0
17.5°	1335.9	1343.3	1339.6	1351.6	1387.7	1391.4	1446.9	1533.9	1668.0	1831.8	1988.1
20°	1369.2	1374.8	1367.4	1374.8	1410.8	1418.2	1475.6	1551.5	1683.8	1862.3	2048.3
22.5°	1421.9	1424.7	1407.1	1412.7	1449.7	1458.9	1525.6	1601.4	1721.7	1911.3	2128.8
25°	1488.6	1494.1	1467.3	1473.8	1508.9	1520.0	1596.8	1676.4	1781.8	1978.9	2231.4
27.5°	1565.3	1568.1	1545.0	1544.1	1589.4	1605.1	1682.8	1768.9	1862.3	2064.0	2361.0
30°	1653.2	1661.6	1639.4	1635.7	1693.0	1706.0	1782.7	1882.7	1980.7	2191.7	2545.1
32.5°	1722.6	1729.1	1716.1	1725.4	1783.7	1793.9	1903.9	2043.6	2166.7	2373.0	2795.8
35°	1822.5	1826.2	1796.6	1813.3	1879.9	1905.8	2069.5	2269.4	2400.7	2600.6	3123.3
37.5°	2184.3	2184.3	2058.4	1976.1	2039.9	2063.1	2296.2	2553.4	2689.4	2905.9	3535.9
40°	2684.8	2676.4	2492.3	2324.0	2315.6	2361.0	2619.1	2911.4	3062.2	3272.2	4000.3
42.5°	3218.6	3205.6	2954.9	2788.4	2760.6	2776.4	2991.9	3352.7	3506.3	3719.1	4499.9
45°	3692.2	3688.5	3459.1	3235.2	3185.3	3235.2	3457.3	3868.9	3979.0	4202.9	4998.5
47.5°	4089.1	4089.1	3921.7	3775.5	3749.6	3779.2	4087.3	4441.6	4431.4	4718.2	5484.2
50°	4546.1	4542.4	4383.3	4320.4	4347.2	4388.9	4812.6	5044.8	4899.6	5224.3	5918.1
52.5°	4866.2	4888.4	4833.9	4823.7	4960.6	5032.8	5549.0	5635.0	5318.6	5704.4	6242.9
55°	5119.7	5145.6	5208.5	5279.8	5543.5	5637.8	6262.3	6194.8	5669.3	6120.7	6429.7
57.5°	5478.7	5441.7	5538.8	5679.4	6105.9	6219.7	6953.4	6723.0	5951.4	6458.4	6450.1
60°	5914.4	5920.0	5936.6	6114.3	6667.5	6813.7	7634.3	7222.6	6132.8	6665.6	6224.4
62.5°	6438.1	6446.4	6480.6	6753.5	7421.5	7559.3	8359.6	7631.5	6216.0	6607.4	5641.5
65°	6402.0	6437.1	6819.2	7752.7	8567.7	8703.7	9206.1	7918.3	6090.2	6074.5	4593.3
67.5°	5832.1	5889.5	6528.7	8946.1	10295.9	10447.6	10229.3	7974.7	5547.2	4723.8	2996.5
70°	5084.6	5104.9	5873.7	10019.3	12297.0	12450.6	11145.2	7354.0	4209.4	2634.8	1342.4
72.5°	3970.7	3975.3	4877.3	10268.2	13383.1	13391.4	10426.3	5459.3	2263.8	1012.1	466.3
75°	2836.5	2808.7	3266.7	8327.2	11774.3	11868.6	7816.5	2560.8	865.0	478.3	232.2
77.5°	1520.9	1551.5	1848.4	4938.4	8133.8	8294.8	4264.9	738.3	440.4	325.6	153.6
80°	470.0	495.9	757.7	2261.0	4607.2	4704.3	1581.1	328.4	307.1	232.2	100.8
82.5°	148.0	153.6	353.4	950.1	1912.3	1956.7	457.9	186.0	210.0	153.6	59.2
85°	42.6	43.5	157.3	354.3	472.7	482.0	128.6	72.2	120.3	95.3	30.5
87.5°	4.6	14.8	59.2	59.2	41.6	40.7	13.9	15.7	34.2	12.0	5.6
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: P940768

CATALOG NUMBER: GALN-SB4A-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9
2.5°	1833.6	1834.6	1822.5	1802.2	1780.0	1761.5	1738.3	1719.8	1706.9	1703.2	1709.7
5°	1846.6	1840.1	1805.9	1743.9	1669.9	1606.0	1534.8	1478.4	1441.4	1425.6	1431.2
7.5°	1866.0	1847.5	1772.6	1650.5	1508.9	1383.1	1255.4	1156.4	1093.5	1062.1	1066.7
10°	1882.7	1845.7	1717.1	1515.4	1298.9	1108.3	936.2	816.9	750.3	718.8	719.8
12.5°	1898.4	1844.7	1644.9	1355.3	1062.1	828.9	668.9	609.7	591.2	584.7	582.8
15°	1928.0	1847.5	1554.2	1172.2	826.2	626.3	568.0	567.1	570.8	569.0	568.0
17.5°	1968.7	1850.3	1451.5	977.9	637.4	552.3	549.5	557.9	563.4	560.6	559.7
20°	2021.4	1861.4	1342.4	785.4	547.7	533.8	540.3	547.7	552.3	547.7	546.8
22.5°	2095.4	1880.8	1223.0	630.9	519.0	522.7	528.3	536.6	541.2	534.7	533.8
25°	2186.1	1911.3	1105.5	548.6	505.1	509.8	518.1	527.3	532.9	526.4	525.5
27.5°	2303.6	1960.4	997.3	530.1	491.3	494.0	506.1	519.9	527.3	519.0	519.0
30°	2473.8	2040.9	903.9	538.4	482.9	476.4	493.1	512.5	520.9	513.5	512.5
32.5°	2699.6	2154.7	846.5	551.4	479.2	456.1	471.8	496.8	510.7	506.1	506.1
35°	2995.6	2327.7	824.3	566.2	476.4	434.8	445.9	472.7	496.8	501.4	501.4
37.5°	3354.6	2568.2	830.8	572.7	468.1	417.2	422.8	445.9	477.4	492.2	495.9
40°	3762.6	2848.5	867.8	566.2	458.9	402.4	403.4	420.9	448.7	470.9	478.3
42.5°	4183.5	3176.0	936.2	542.1	450.5	389.5	386.7	398.7	417.2	433.0	439.4
45°	4584.1	3512.8	1003.8	508.8	440.4	376.5	370.1	374.7	378.4	384.9	388.6
47.5°	4933.8	3749.6	984.4	478.3	426.5	361.7	350.6	348.8	337.7	336.8	335.8
50°	5175.2	3801.4	874.3	447.8	406.1	345.1	327.5	316.4	297.0	287.7	288.6
52.5°	5252.0	3597.0	714.2	417.2	372.8	322.9	297.9	280.3	256.3	247.9	247.0
55°	5150.3	3196.4	570.8	380.2	326.6	293.3	265.5	242.4	223.0	212.8	212.8
57.5°	4901.4	2686.6	451.5	336.8	277.5	260.0	232.2	209.1	192.4	182.3	180.4
60°	4488.8	2133.4	357.1	284.9	236.8	223.9	195.2	180.4	165.6	153.6	150.8
62.5°	3862.5	1522.8	280.3	225.7	198.0	183.2	166.5	155.4	137.8	121.2	118.4
65°	3014.1	931.6	216.5	165.6	159.1	151.7	141.5	131.4	110.1	93.4	90.7
67.5°	1901.2	441.3	154.5	124.9	125.8	122.1	117.5	109.2	93.4	78.6	76.8
70°	837.3	213.7	101.8	95.3	93.4	93.4	97.1	94.4	79.6	65.7	62.9
72.5°	284.9	114.7	75.9	72.2	67.5	66.6	81.4	78.6	63.8	50.9	48.1
75°	148.9	76.8	55.5	51.8	40.7	49.0	64.8	61.1	45.3	33.3	30.5
77.5°	97.1	54.6	37.9	33.3	23.1	32.4	48.1	42.6	26.8	16.7	14.8
80°	61.1	36.1	22.2	15.7	11.1	17.6	25.9	18.5	10.2	3.7	2.8
82.5°	32.4	18.5	8.3	5.6	4.6	5.6	6.5	4.6	1.9	0.0	0.0
85°	13.0	6.5	2.8	1.9	0.9	0.0	1.9	0.9	0.0	0.0	0.0
87.5°	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)