

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: P452304

Luminaire Tested: **GALN-SA3B-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14175 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

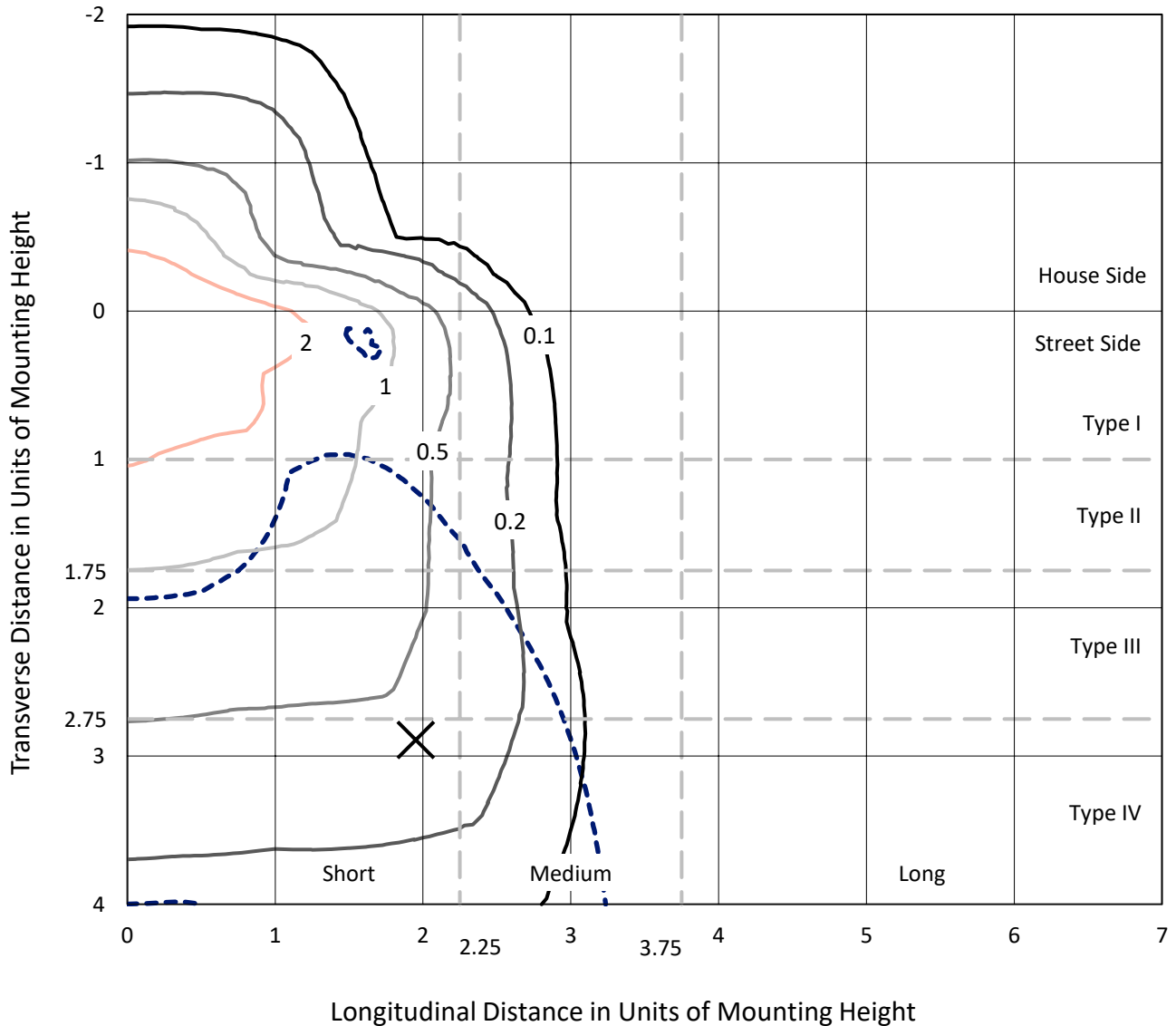
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452304
 CATALOG NUMBER: GALN-SA3B-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

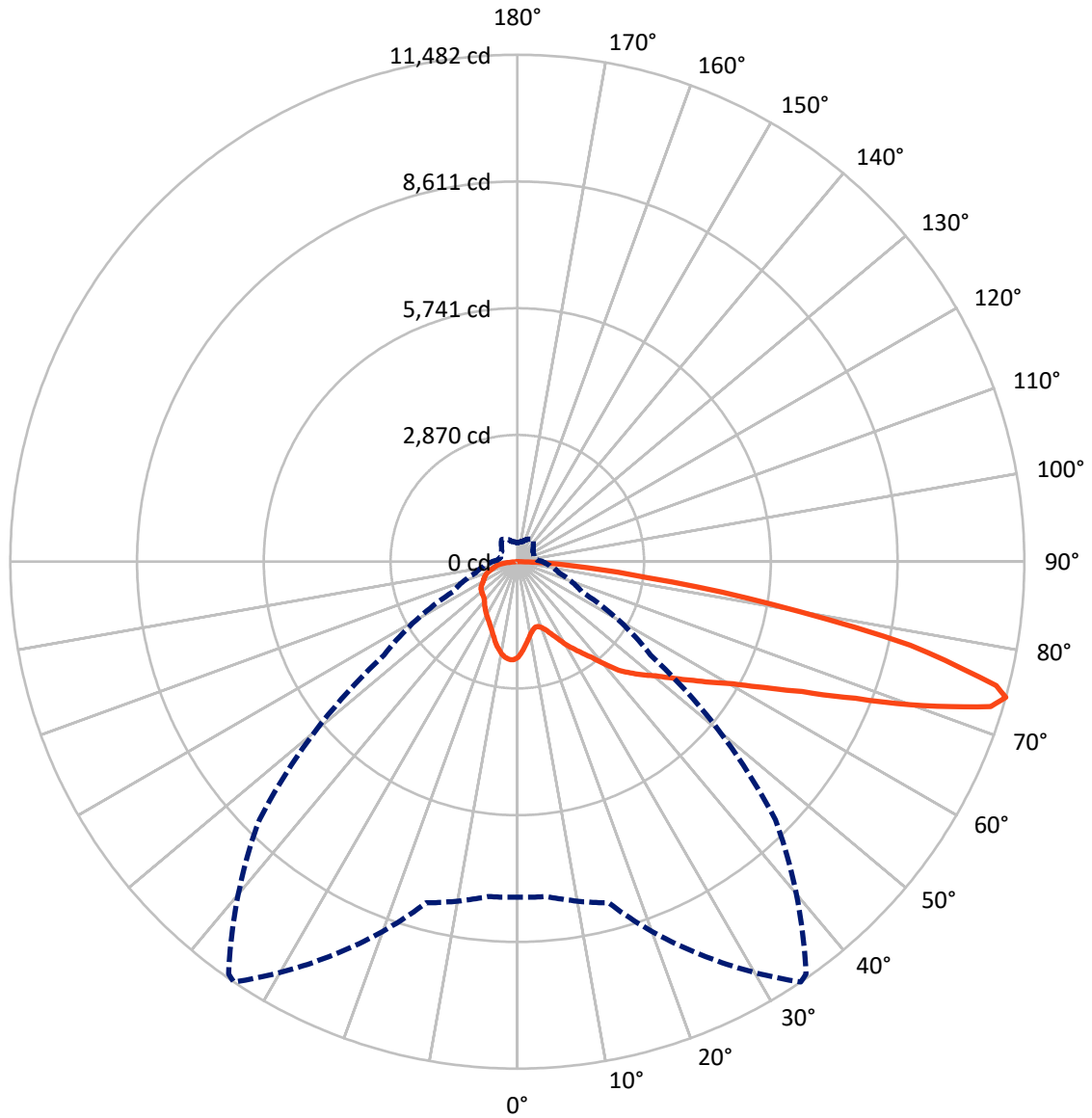
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P452304
CATALOG NUMBER: GALN-SA3B-727-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



REPORT NUMBER: P452304

CATALOG NUMBER: GALN-SA3B-727-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.5	0.0	3016.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	11158.4	0.0	11158.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	14175.0	0.0	14175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	1.4
10°-20°	538.8	3.8
20°-30°	888.4	6.3
30°-40°	1330.7	9.4
40°-50°	1934.4	13.6
50°-60°	2701.9	19.1
60°-70°	3382.7	23.9
70°-80°	2797.2	19.7
80°-90°	404.2	2.9
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°	14175.0	100.0
0°-180°	14175.0	100.0



REPORT NUMBER: P452304

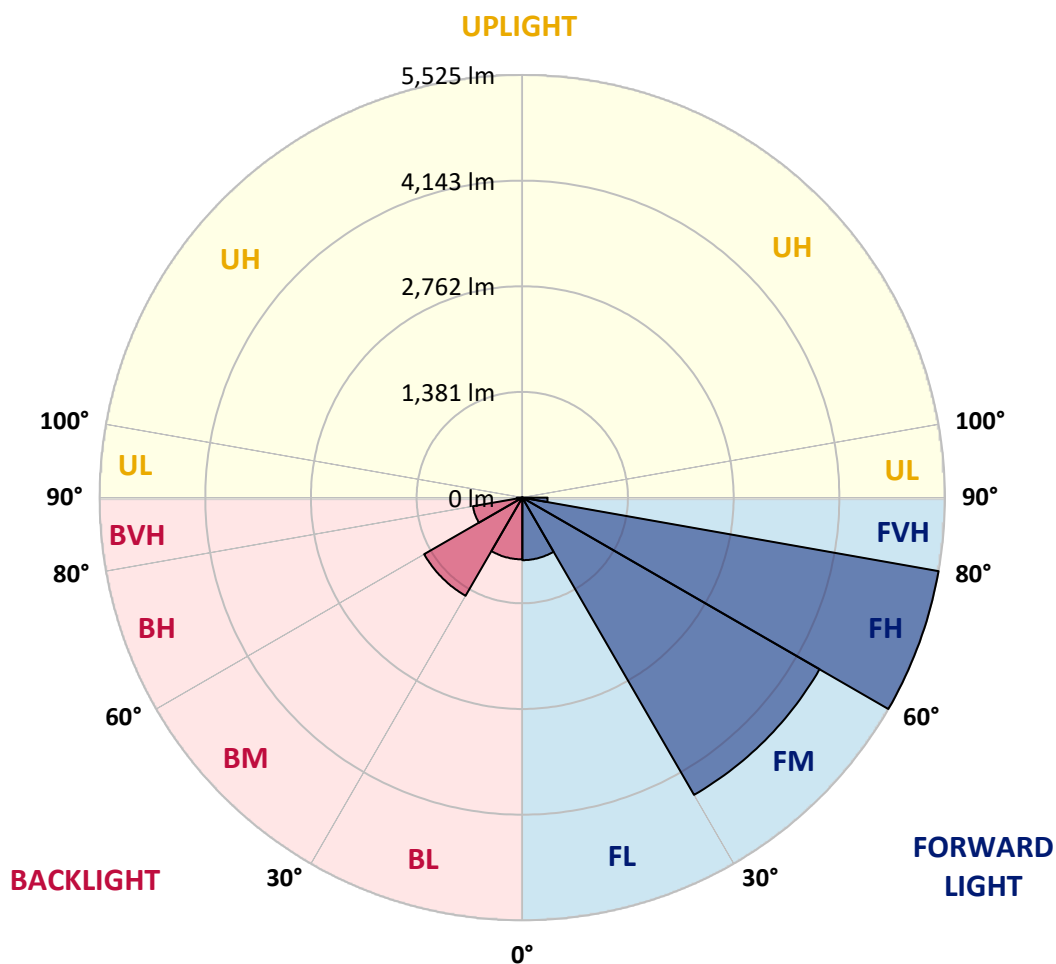
CATALOG NUMBER: GALN-SA3B-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.1	5.8			
FM	(30°-60°)	4485.6	31.6			
FH	(60°-80°)	5524.7	39.0			G3/7500
FVH	(80°-90°)	331.1	2.3			G3/500
BL	(0°-30°)	806.9	5.7	B2/1000		
BM	(30°-60°)	1481.4	10.5	B2/2500		
BH	(60°-80°)	655.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	73.1	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-G3

Type IV Short





REPORT NUMBER: P452304

CATALOG NUMBER: GALN-SA3B-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2000.1	2010.3	2015.8	2035.5	2040.2	2046.4	2062.9	2084.9	2113.2	2138.3	2160.3
5°	1833.6	1849.3	1858.8	1876.0	1909.8	1913.0	1956.9	2007.2	2064.5	2117.9	2161.9
7.5°	1675.8	1693.1	1700.9	1732.3	1777.1	1784.2	1848.6	1927.9	2023.7	2104.6	2172.1
10°	1557.2	1565.9	1583.1	1606.7	1660.1	1664.8	1748.8	1854.8	1978.9	2098.3	2189.4
12.5°	1492.8	1497.5	1501.5	1526.6	1579.2	1586.3	1674.2	1794.4	1943.6	2103.0	2217.6
15°	1502.2	1503.8	1486.5	1491.3	1533.7	1543.9	1631.0	1754.3	1921.6	2114.8	2260.0
17.5°	1581.6	1576.1	1533.7	1511.7	1541.5	1546.2	1622.4	1738.6	1911.4	2136.8	2304.0
20°	1706.4	1698.6	1625.5	1576.8	1594.1	1598.1	1650.7	1750.4	1921.6	2172.9	2372.3
22.5°	1861.9	1858.8	1748.0	1689.1	1688.4	1688.4	1715.8	1792.8	1952.2	2222.4	2443.8
25°	2079.4	2062.9	1918.4	1842.3	1821.1	1819.5	1816.4	1862.7	1991.5	2275.0	2528.6
27.5°	2302.5	2274.2	2145.4	2028.4	1982.8	1977.3	1956.9	1961.6	2041.7	2334.6	2625.2
30°	2502.7	2484.6	2363.7	2234.1	2179.9	2167.4	2110.8	2084.9	2125.8	2442.2	2779.1
32.5°	2655.8	2644.8	2550.6	2432.8	2352.7	2350.4	2267.9	2246.7	2256.9	2572.6	2955.0
35°	2779.9	2783.8	2735.9	2633.8	2542.0	2528.6	2473.6	2446.9	2417.1	2761.1	3176.5
37.5°	2949.5	2958.2	2955.0	2867.1	2754.8	2757.9	2745.4	2701.4	2622.1	2971.5	3422.3
40°	3136.4	3142.7	3141.9	3108.2	3049.3	3052.4	3047.7	2997.4	2878.9	3239.3	3695.5
42.5°	3394.8	3364.9	3287.2	3321.0	3355.5	3370.4	3402.6	3354.7	3192.2	3525.1	3952.3
45°	3683.8	3627.2	3451.3	3467.0	3595.0	3623.3	3800.8	3734.8	3532.2	3853.4	4254.7
47.5°	3866.0	3810.2	3661.8	3658.6	3828.3	3855.7	4169.9	4145.5	3841.6	4207.6	4623.8
50°	4028.5	4020.7	3853.4	3893.4	4059.1	4100.0	4571.9	4549.1	4150.2	4625.3	5025.8
52.5°	4269.6	4206.0	4072.5	4154.9	4374.0	4427.4	4970.8	4904.1	4433.7	4994.4	5416.1
55°	4378.0	4363.0	4355.2	4426.6	4727.4	4765.9	5358.8	5205.6	4675.6	5306.9	5712.9
57.5°	4667.7	4640.2	4718.0	4766.7	5143.6	5202.5	5764.0	5520.5	4887.6	5555.1	5857.4
60°	5043.1	5028.2	5099.6	5187.6	5608.5	5698.0	6225.7	5789.1	5058.0	5680.0	5778.1
62.5°	5603.8	5602.2	5588.9	5777.3	6267.4	6349.8	6755.8	6050.6	5084.7	5586.5	5368.2
65°	6407.9	6379.6	6263.4	6469.2	7087.2	7183.8	7307.9	6196.7	4923.7	5106.7	4520.1
67.5°	7249.0	7247.4	7153.2	7420.1	8264.3	8364.1	7998.1	6164.5	4476.9	4136.9	3210.2
70°	7946.3	7912.5	8032.7	8744.1	9768.1	9883.6	8602.0	5785.2	3566.0	2732.0	1907.5
72.5°	8113.6	8115.1	8364.8	9765.0	11212.3	11230.3	8819.5	4688.9	2386.5	1507.0	954.1
74°	7598.4	7611.8	7998.9	9816.0	11481.6	11400.0	8263.5	3685.3	1613.8	984.0	687.9
75°	6935.6	6851.6	7411.5	9476.0	11202.1	11114.1	7612.5	2957.4	1231.3	786.1	602.3
77.5°	3708.1	3793.7	4657.5	7071.5	9100.7	8999.4	5161.7	1418.2	665.1	547.3	433.5
80°	1320.1	1455.9	2046.4	3700.3	5834.7	5866.1	2463.4	650.2	468.0	403.6	306.3
82.5°	538.7	553.6	878.7	1642.0	2962.9	2991.1	1005.9	386.4	334.5	278.0	183.0
85°	210.5	216.7	388.7	738.2	1264.3	1346.8	347.9	204.2	205.7	159.4	93.4
87.5°	70.7	80.1	159.4	245.8	429.6	420.9	101.3	60.5	73.8	69.1	29.1
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: P452304

CATALOG NUMBER: GALN-SA3B-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2171.3	2186.2	2196.4	2207.4	2217.6	2220.8	2218.4	2225.5	2226.3	2227.1	2227.9
5°	2183.9	2204.3	2223.9	2234.9	2239.6	2235.7	2222.4	2215.3	2209.0	2204.3	2205.9
7.5°	2201.2	2230.2	2248.3	2253.0	2240.4	2222.4	2189.4	2163.5	2147.0	2136.0	2135.2
10°	2227.9	2256.1	2271.0	2257.7	2223.1	2179.2	2127.3	2078.6	2041.7	2030.7	2030.0
12.5°	2261.6	2293.8	2293.0	2253.8	2193.3	2114.8	2030.7	1974.2	1923.9	1898.8	1909.0
15°	2305.6	2329.9	2307.2	2236.5	2140.7	2033.1	1929.4	1852.5	1795.9	1769.2	1770.8
17.5°	2356.6	2377.8	2317.4	2205.9	2066.9	1928.7	1808.5	1735.5	1690.7	1671.1	1669.5
20°	2420.2	2426.5	2317.4	2152.5	1971.8	1806.9	1692.3	1641.2	1616.1	1605.9	1609.0
22.5°	2488.6	2476.0	2304.8	2077.1	1847.0	1679.7	1602.8	1580.0	1567.4	1565.9	1567.4
25°	2565.5	2530.2	2278.9	1975.0	1716.6	1569.8	1525.0	1528.9	1531.3	1531.3	1536.8
27.5°	2659.8	2589.1	2235.7	1846.2	1564.3	1467.7	1455.1	1482.6	1495.2	1497.5	1501.5
30°	2783.8	2653.5	2164.2	1685.2	1434.7	1375.8	1397.8	1434.7	1448.8	1457.5	1455.9
32.5°	2931.5	2724.1	2067.7	1524.2	1330.3	1311.4	1338.1	1375.8	1391.5	1396.2	1390.0
35°	3105.0	2804.2	1940.4	1373.5	1239.2	1250.2	1281.6	1293.4	1307.5	1307.5	1310.6
37.5°	3291.9	2868.6	1785.0	1235.3	1168.5	1208.6	1231.3	1220.3	1214.0	1206.2	1210.1
40°	3481.9	2916.5	1583.1	1098.6	1097.8	1165.4	1171.6	1140.2	1115.1	1107.3	1103.3
42.5°	3647.6	2946.4	1400.9	992.6	1031.1	1123.0	1127.7	1077.4	1037.4	1013.8	1005.9
45°	3843.2	2980.9	1222.7	904.6	969.0	1089.2	1101.0	1033.4	974.5	925.1	912.5
47.5°	4111.0	3059.5	1082.1	836.3	924.3	1068.0	1084.5	997.3	919.6	855.2	845.0
50°	4413.3	3167.0	973.0	790.0	889.7	1049.1	1069.6	960.4	868.5	797.1	789.2
52.5°	4690.5	3225.2	878.7	748.4	856.0	1014.6	1049.9	933.7	818.3	739.0	731.9
55°	4842.1	3130.9	786.1	707.5	809.6	969.8	1022.4	896.8	769.6	708.3	698.1
57.5°	4862.5	2936.2	702.0	663.6	760.9	914.9	971.4	852.0	738.2	687.1	678.5
60°	4704.6	2645.6	636.9	627.4	711.5	852.8	914.1	812.8	706.0	663.6	654.9
62.5°	4312.0	2329.9	591.3	594.5	661.2	787.6	871.7	775.1	675.3	637.7	629.8
65°	3636.6	1923.2	547.3	560.7	616.4	736.6	833.2	743.7	644.7	618.0	611.0
67.5°	2526.3	1388.4	511.2	525.4	574.0	684.8	788.4	709.9	610.2	596.0	585.0
70°	1398.6	854.4	468.8	485.3	530.1	626.7	738.2	658.9	559.9	553.6	537.9
72.5°	735.0	544.2	420.9	439.0	470.4	552.1	661.2	603.1	510.4	483.7	463.3
74°	574.0	446.0	388.7	407.6	428.8	508.1	615.7	563.0	475.1	443.7	428.0
75°	500.2	397.4	361.2	385.6	404.4	478.2	580.3	534.8	455.5	425.6	411.5
77.5°	353.4	297.6	295.3	324.3	334.5	419.3	523.0	486.9	406.0	374.6	361.2
80°	248.1	223.0	234.0	252.1	266.2	370.7	485.3	420.9	333.0	296.1	291.3
82.5°	161.8	146.1	167.3	183.8	188.5	273.3	391.9	319.6	242.7	197.1	183.0
85°	74.6	73.0	95.8	93.4	92.7	133.5	232.4	186.9	139.8	104.4	98.2
87.5°	18.8	18.1	23.6	19.6	23.6	20.4	21.2	5.5	0.8	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)