

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: P452296

Luminaire Tested: **GALN-SA3B-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14287 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

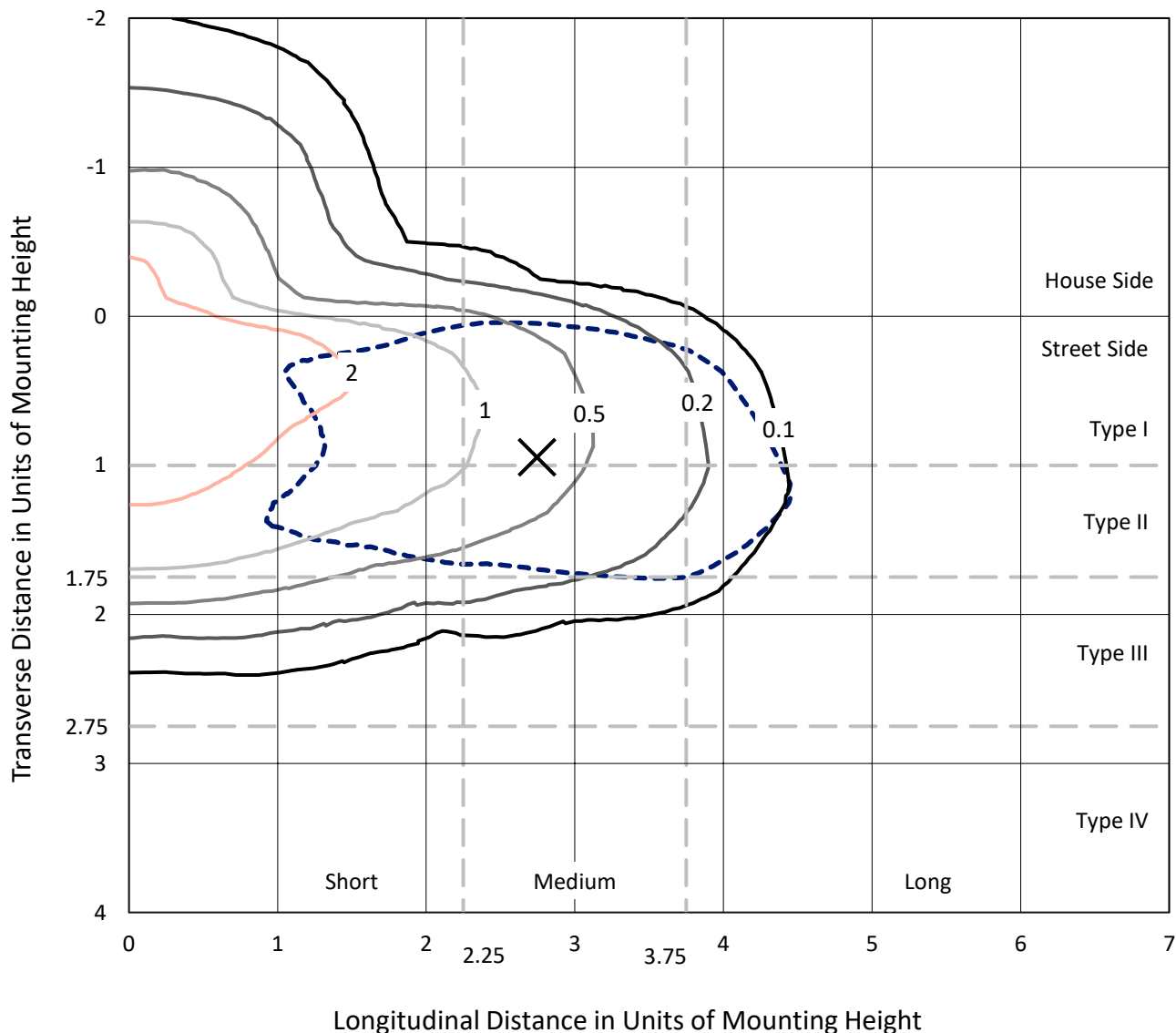
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452296
 CATALOG NUMBER: GALN-SA3B-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

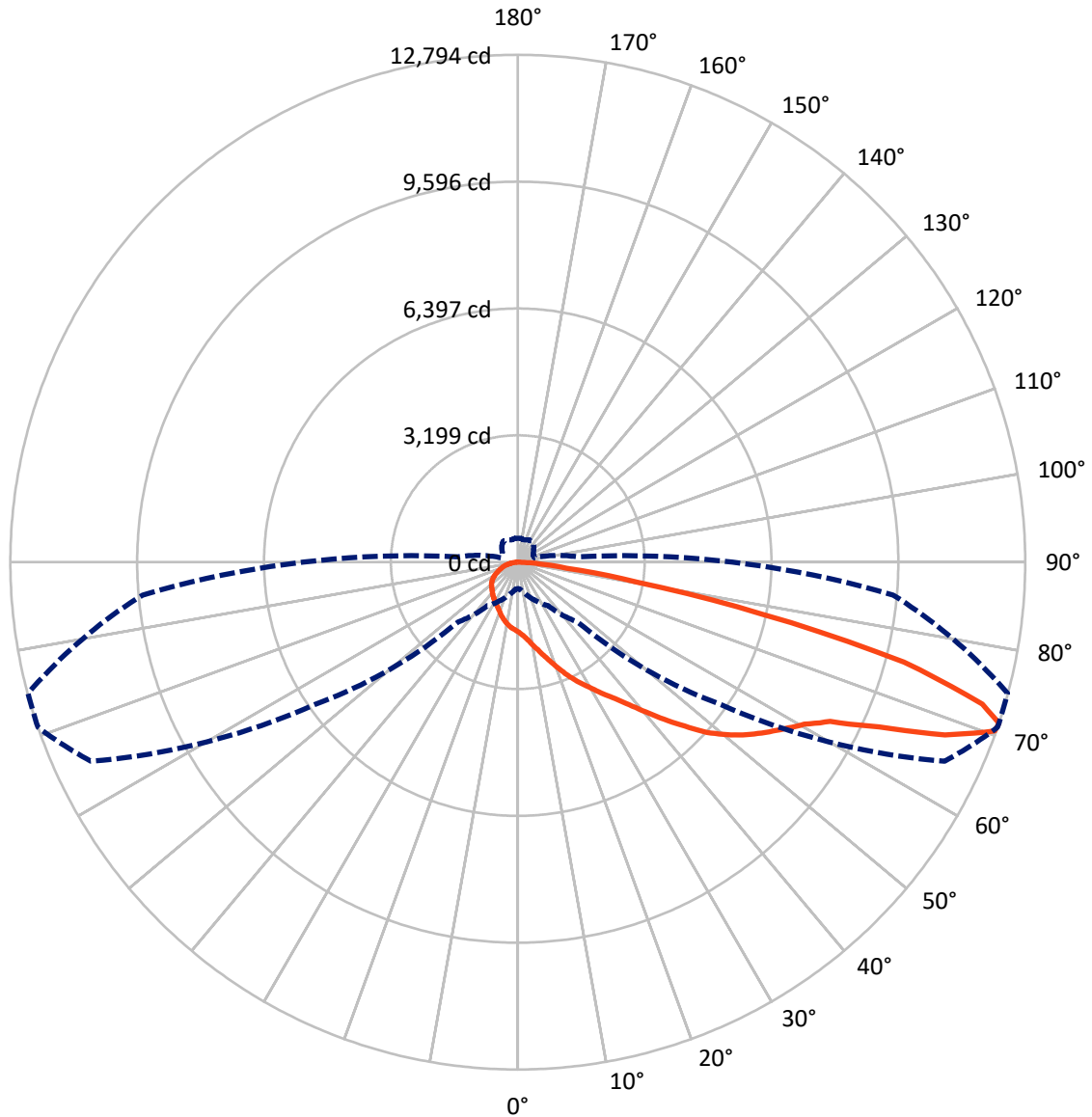
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

REPORT NUMBER: P452296
CATALOG NUMBER: GALN-SA3B-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P452296

CATALOG NUMBER: GALN-SA3B-727-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2569.5	0.0	2569.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11717.5	0.0	11717.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	14287.0	0.0	14287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.2
10°-20°	572.0	4.0
20°-30°	999.6	7.0
30°-40°	1486.8	10.4
40°-50°	2190.6	15.3
50°-60°	3066.9	21.5
60°-70°	3430.2	24.0
70°-80°	2095.3	14.7
80°-90°	269.5	1.9
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°	14287.0	100.0
0°-180°	14287.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452296

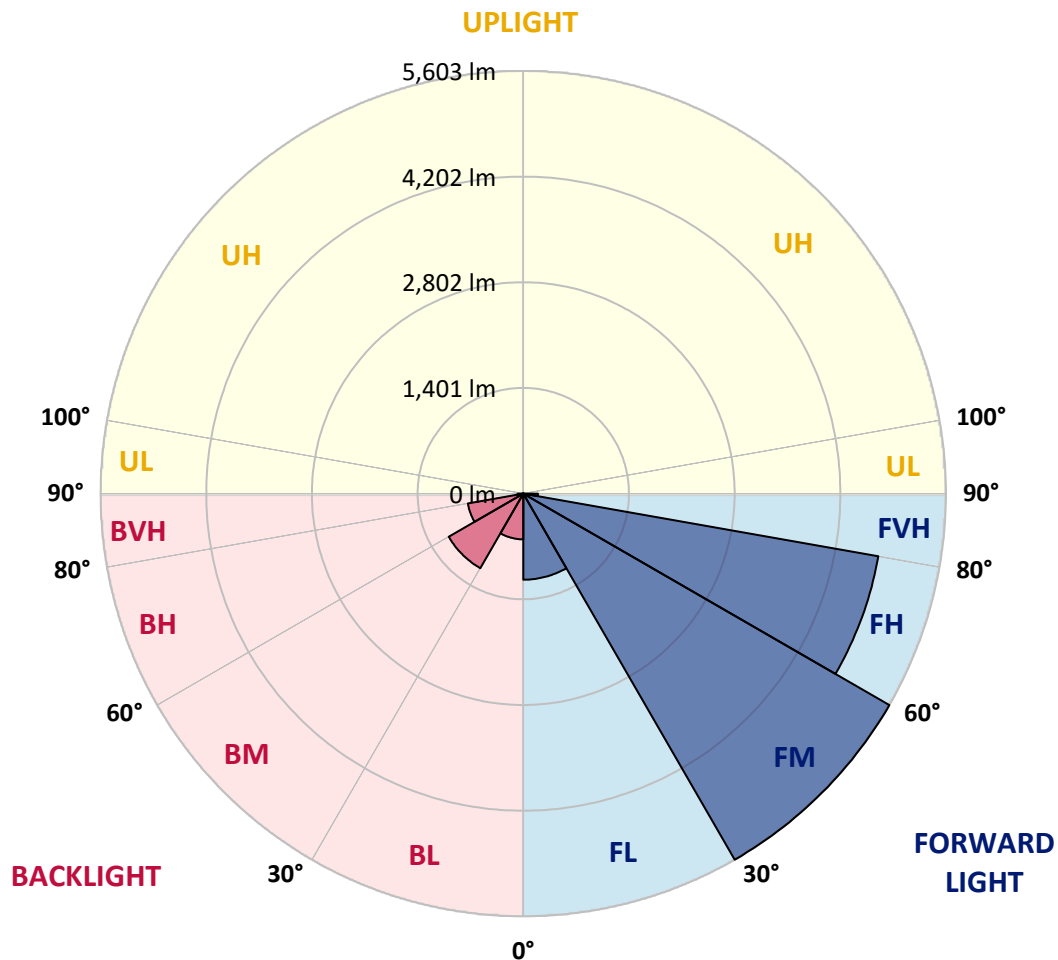
CATALOG NUMBER: GALN-SA3B-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1141.5	8.0			
FM	(30°-60°)	5603.1	39.2			
FH	(60°-80°)	4779.0	33.4			G2/5000
FVH	(80°-90°)	193.9	1.4			G2/225
BL	(0°-30°)	606.1	4.2	B2/1000		
BM	(30°-60°)	1141.2	8.0	B2/2500		
BH	(60°-80°)	746.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	75.6	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 II Medium





REPORT NUMBER: P452296

CATALOG NUMBER: GALN-SA3B-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1946.6	1937.2	1938.0	1924.6	1907.4	1888.5	1861.8	1838.3	1819.4	1808.4	1776.2
5°	2157.1	2147.6	2135.9	2106.8	2094.2	2047.9	1989.0	1935.6	1894.8	1872.0	1807.6
7.5°	2327.5	2325.1	2322.0	2305.5	2273.3	2208.9	2158.6	2066.0	2005.5	1962.3	1852.4
10°	2432.7	2436.6	2439.0	2442.1	2428.8	2395.0	2325.9	2208.9	2131.9	2077.0	1910.5
12.5°	2486.1	2490.0	2503.4	2532.4	2550.5	2546.5	2490.0	2375.4	2269.4	2197.1	1972.5
15°	2519.1	2525.3	2548.9	2587.4	2647.8	2686.3	2658.8	2552.8	2436.6	2351.0	2046.3
17.5°	2555.2	2562.2	2588.2	2643.1	2722.4	2805.7	2835.5	2744.4	2618.0	2515.9	2128.8
20°	2575.6	2585.0	2621.9	2694.2	2786.8	2907.8	3006.7	2958.8	2820.6	2707.5	2223.8
22.5°	2608.6	2616.4	2647.8	2724.8	2835.5	2987.1	3177.9	3167.7	3046.0	2899.9	2328.2
25°	2698.1	2710.7	2726.4	2772.7	2879.5	3067.9	3320.0	3390.7	3264.3	3100.9	2424.0
27.5°	2866.9	2877.1	2876.3	2882.6	2943.1	3137.8	3443.3	3611.3	3481.0	3304.3	2516.7
30°	3059.3	3063.2	3066.4	3052.2	3065.6	3209.3	3556.4	3829.6	3699.3	3513.2	2597.6
32.5°	3293.3	3301.2	3274.5	3238.3	3227.3	3315.3	3649.8	4047.9	3957.6	3725.2	2677.7
35°	3569.7	3590.1	3535.9	3472.3	3427.6	3467.6	3775.4	4270.9	4222.3	3996.1	2783.7
37.5°	3885.4	3910.5	3860.3	3735.4	3671.8	3682.8	3939.6	4546.6	4556.8	4304.7	2941.5
40°	4143.7	4176.7	4178.3	4001.6	3905.0	3917.6	4147.7	4843.4	4960.4	4686.3	3127.6
42.5°	4314.1	4346.3	4380.1	4276.4	4175.1	4246.6	4390.3	5165.3	5414.2	5149.6	3387.5
45°	4501.0	4530.1	4548.9	4501.8	4445.3	4630.6	4683.2	5507.7	5898.0	5667.1	3671.8
47.5°	4717.7	4749.9	4768.0	4723.2	4702.0	4967.4	4998.9	5827.3	6414.6	6169.7	3985.9
50°	5006.7	5031.1	5021.6	4993.4	4988.6	5225.8	5302.0	6126.5	6841.0	6710.7	4311.8
52.5°	5366.4	5395.4	5405.6	5365.6	5347.5	5410.3	5546.2	6398.9	7228.9	7175.5	4659.6
55°	5583.9	5630.2	5785.7	5848.5	5891.7	5649.0	5809.2	6699.7	7576.8	7665.5	5033.4
57.5°	5305.1	5364.8	5712.6	6026.7	6432.7	6245.8	6182.2	7013.8	7924.7	8140.6	5481.0
60°	4625.1	4638.4	5086.8	5665.5	6482.2	7013.0	6960.4	7513.2	8301.6	8619.6	6070.7
62.5°	3208.5	3236.8	3766.8	4690.3	5871.3	7289.4	8284.3	8375.4	8841.8	9336.5	6935.3
65°	1654.5	1617.6	2100.5	2947.8	4426.4	6632.9	9357.0	9960.8	10013.4	10457.9	8152.4
67.5°	1018.5	1035.0	1261.1	1721.3	2617.2	4820.6	9244.7	11898.0	11620.8	11834.4	9282.4
70°	764.8	785.2	940.7	1177.9	1595.6	2756.2	7434.7	12367.6	12754.7	12699.7	9626.3
71°	665.1	686.3	848.1	1071.9	1340.4	2127.2	6263.9	11876.0	12794.0	12784.5	9496.7
72.5°	566.9	580.3	706.7	907.7	1130.0	1491.2	4706.0	10651.0	12248.2	12561.5	9034.2
75°	445.2	455.4	512.0	692.6	889.7	915.6	2525.3	7985.1	10059.7	10656.5	7521.1
77.5°	362.8	369.8	398.9	514.3	686.3	648.6	1324.7	5197.5	6302.4	6903.1	4430.3
80°	288.2	296.0	313.3	348.6	514.3	462.5	632.1	2633.7	3044.4	3038.1	1768.4
82.5°	223.8	226.1	246.6	256.0	351.8	328.2	342.4	1115.0	1235.2	1276.0	638.4
85°	141.3	148.4	218.3	196.3	210.4	192.4	168.8	442.9	545.7	537.9	255.2
87.5°	43.2	45.5	73.8	83.2	93.4	84.0	62.0	130.4	159.4	172.8	63.6
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: P452296
 CATALOG NUMBER: GALN-SA3B-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1763.7	1755.0	1724.4	1699.3	1675.7	1649.8	1627.8	1621.5	1616.0	1613.7	1612.9
5°	1780.1	1754.2	1693.8	1644.3	1605.0	1568.9	1546.1	1535.9	1525.7	1525.7	1528.9
7.5°	1803.7	1756.6	1663.1	1589.3	1539.9	1506.1	1489.6	1488.0	1490.4	1492.7	1493.5
10°	1829.6	1755.0	1618.4	1526.5	1482.5	1466.8	1467.6	1481.0	1493.5	1503.0	1504.5
12.5°	1854.7	1745.6	1565.8	1467.6	1439.4	1442.5	1464.5	1494.3	1518.7	1532.0	1532.8
15°	1883.0	1730.7	1502.2	1411.9	1402.4	1426.8	1467.6	1513.2	1550.1	1572.1	1574.4
17.5°	1906.6	1705.5	1435.4	1357.7	1369.5	1414.2	1470.8	1529.7	1574.4	1601.9	1606.6
20°	1933.3	1673.4	1366.3	1305.9	1339.6	1400.1	1464.5	1528.1	1574.4	1601.1	1607.4
22.5°	1954.5	1627.8	1300.4	1263.5	1312.9	1382.8	1443.3	1494.3	1532.0	1546.1	1555.6
25°	1963.1	1570.5	1238.3	1228.9	1291.7	1354.5	1395.4	1424.4	1436.2	1434.6	1438.6
27.5°	1958.4	1504.5	1184.9	1201.4	1265.0	1310.6	1331.0	1328.6	1307.4	1287.8	1297.2
30°	1938.8	1426.0	1140.2	1173.2	1230.5	1255.6	1252.5	1221.8	1181.8	1144.9	1147.2
32.5°	1903.4	1341.2	1098.6	1141.0	1181.8	1192.8	1171.6	1131.5	1074.2	1026.3	1019.2
35°	1873.6	1260.3	1061.6	1104.1	1133.1	1127.6	1107.2	1055.4	1003.5	961.1	954.1
37.5°	1868.9	1191.2	1026.3	1062.4	1078.9	1071.1	1045.9	1002.0	983.1	950.9	947.0
40°	1894.0	1142.5	990.2	1018.5	1026.3	1020.0	992.5	967.4	984.7	976.8	976.8
42.5°	1962.3	1116.6	958.0	974.5	980.8	985.5	965.8	944.6	965.8	929.7	917.9
45°	2070.7	1117.4	928.9	931.3	950.1	966.6	953.3	921.9	910.9	838.6	824.5
47.5°	2230.1	1144.1	905.4	890.5	924.2	951.7	932.9	887.3	838.6	790.7	782.1
50°	2416.2	1192.0	884.2	848.1	889.7	932.9	918.7	865.3	815.1	786.0	780.5
52.5°	2622.7	1252.5	858.3	800.9	847.3	924.2	921.9	862.2	793.1	773.5	768.8
55°	2877.9	1312.1	826.1	746.0	809.6	917.2	913.2	836.3	788.4	774.2	772.7
57.5°	3174.7	1398.5	779.7	690.2	766.4	888.1	879.5	820.6	772.7	762.5	761.7
60°	3653.0	1532.8	713.8	639.2	722.4	837.1	848.1	793.9	747.6	745.2	744.4
62.5°	4281.9	1721.3	645.5	586.6	671.4	771.1	802.5	757.8	720.9	732.6	734.2
65°	5150.4	1879.9	574.8	541.8	614.8	707.5	759.3	724.0	691.0	713.8	713.8
67.5°	5716.6	1883.0	510.4	495.5	557.5	654.1	713.8	683.9	652.5	691.0	692.6
70°	5598.8	1649.8	457.0	446.8	501.8	596.8	663.5	640.0	603.9	638.4	625.8
71°	5408.8	1520.2	435.8	428.0	479.8	569.3	640.0	620.3	584.2	607.0	599.9
72.5°	5105.6	1320.0	401.3	402.8	446.8	534.8	607.0	586.6	550.5	563.0	560.7
75°	4315.7	1152.7	343.2	350.2	384.0	475.9	541.0	525.3	488.4	488.4	486.1
77.5°	2698.1	805.7	285.0	289.0	325.9	407.5	464.9	451.5	416.2	404.4	401.3
80°	1006.7	416.2	223.0	227.7	250.5	321.2	384.8	372.2	336.1	322.7	310.2
82.5°	380.8	208.9	164.1	160.2	184.5	245.0	301.5	286.6	258.3	226.1	216.7
85°	143.7	103.7	100.5	97.4	108.4	145.3	186.9	183.7	153.9	131.1	128.8
87.5°	37.7	33.8	39.3	29.1	30.6	27.5	28.3	11.8	5.5	2.4	1.6
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)