

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: P451749

Luminaire Tested: **GALN-SA2C-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10306 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

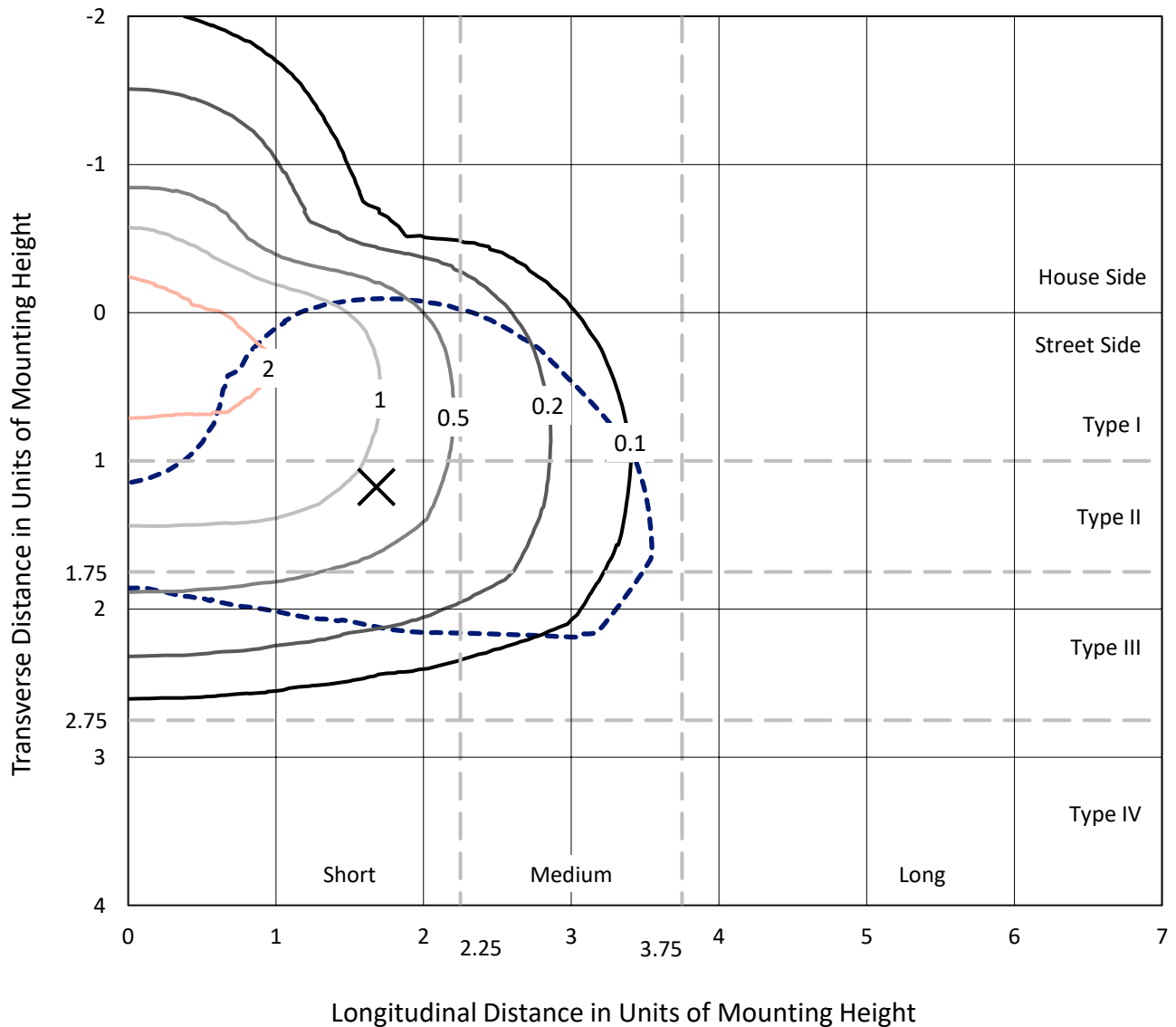
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

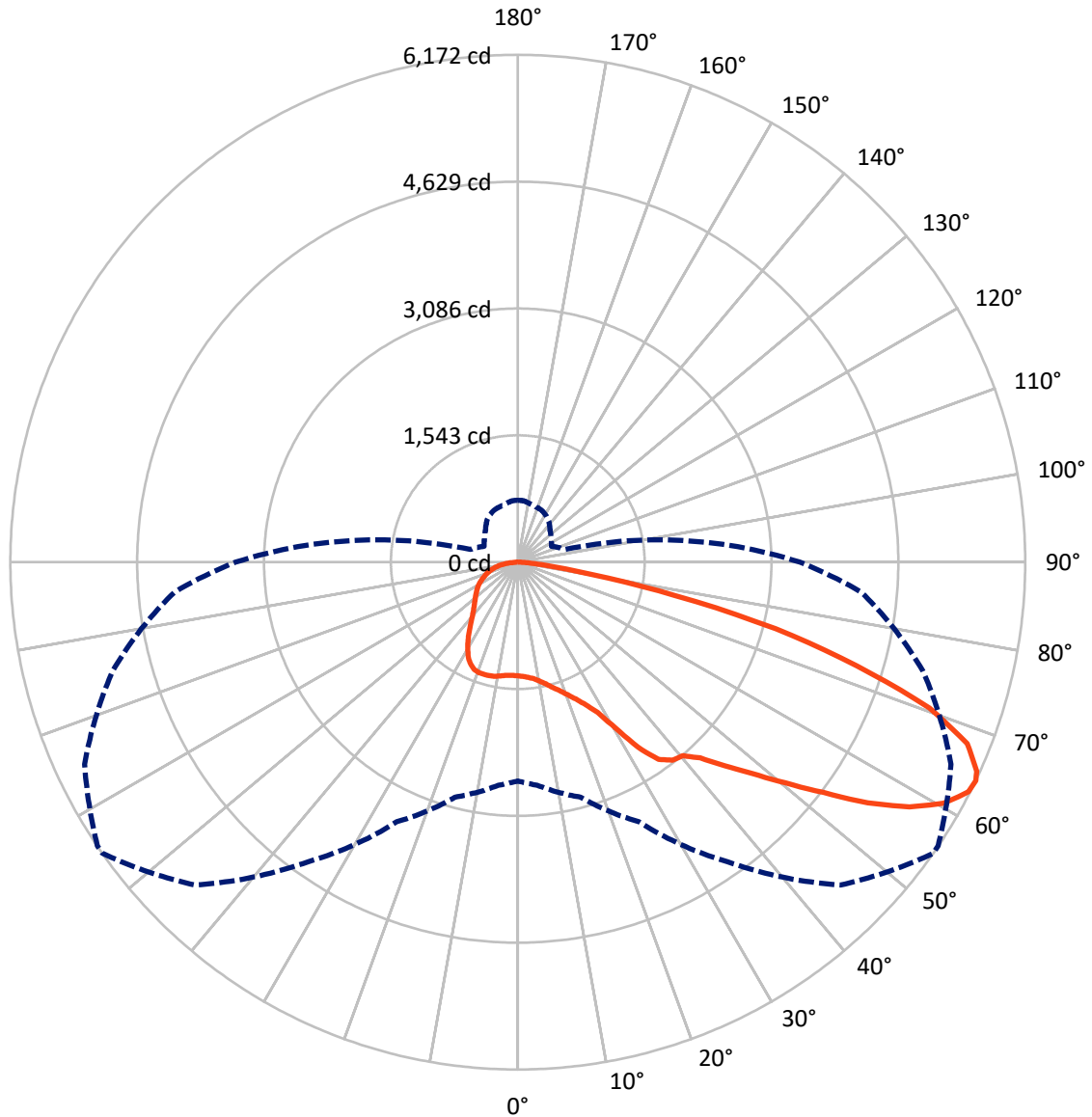
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2503.5	0.0	2503.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	7802.5	0.0	7802.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	10306.0	0.0	10306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.3
10°-20°	424.4	4.1
20°-30°	755.6	7.3
30°-40°	1162.5	11.3
40°-50°	1647.9	16.0
50°-60°	2385.3	23.1
60°-70°	2468.6	24.0
70°-80°	1156.0	11.2
80°-90°	171.1	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°	10306.0	100.0
0°-180°	10306.0	100.0

Coefficient of Utilization



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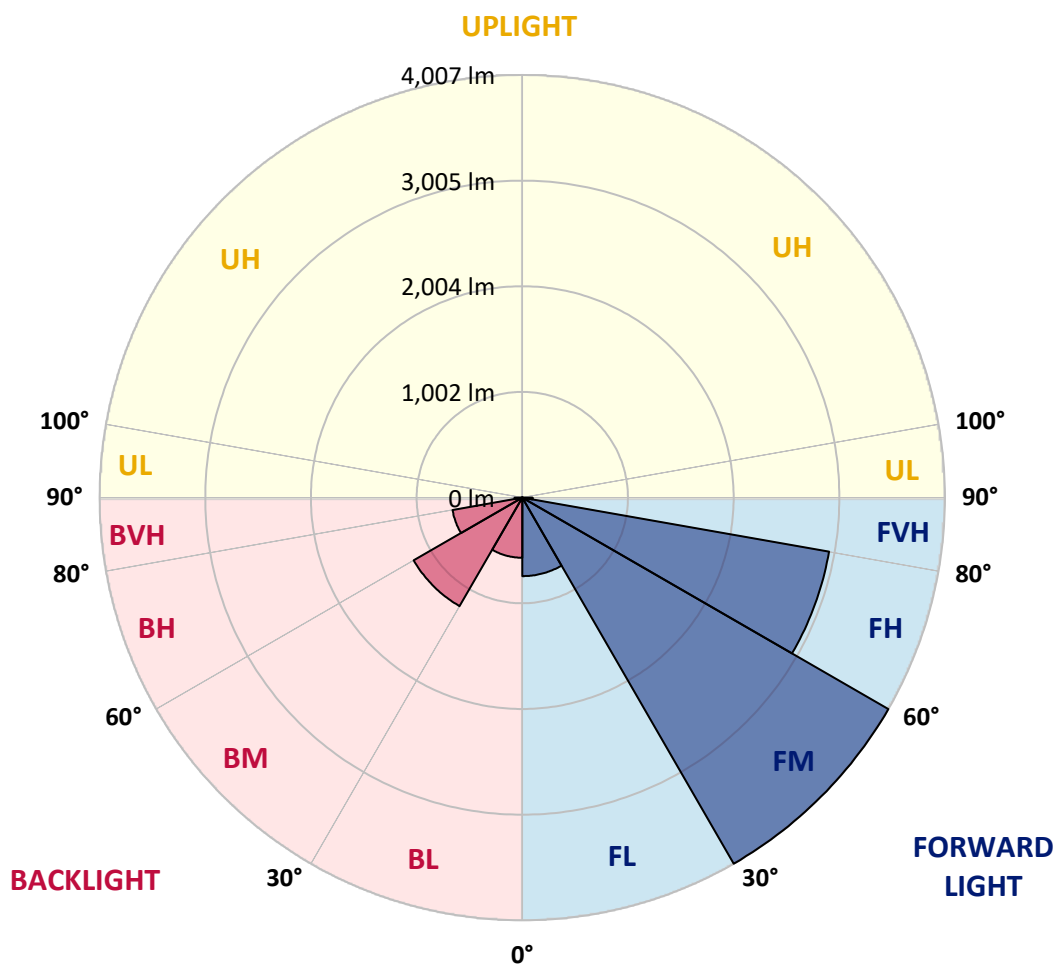
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	744.3	7.2			
FM	(30°-60°)	4007.3	38.9			
FH	(60°-80°)	2953.0	28.7			G2/5000
FVH	(80°-90°)	98.0	1.0			G1/100
BL	(0°-30°)	570.2	5.5	B2/1000		
BM	(30°-60°)	1188.5	11.5	B2/2500		
BH	(60°-80°)	671.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	73.1	0.7			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°	56°	65°	75°	85°
0°	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8
2.5°	1398.3	1397.7	1399.4	1397.7	1398.8	1394.8	1393.1	1394.2	1392.5	1389.6	1384.5
5°	1415.5	1414.9	1415.5	1413.2	1414.4	1412.1	1408.0	1409.2	1406.3	1400.0	1392.5
7.5°	1444.8	1442.5	1442.5	1441.9	1439.6	1436.2	1433.3	1432.2	1429.3	1421.2	1409.8
10°	1482.7	1482.7	1483.3	1478.7	1481.6	1475.2	1472.4	1471.8	1462.0	1451.7	1435.6
12.5°	1532.7	1535.6	1533.8	1531.5	1530.4	1528.1	1518.3	1520.6	1509.7	1491.9	1472.4
15°	1594.7	1599.3	1596.5	1595.3	1592.4	1583.8	1579.8	1578.1	1563.7	1537.9	1512.0
17.5°	1676.9	1671.1	1668.8	1666.0	1653.9	1647.6	1640.7	1639.5	1626.9	1596.5	1556.2
20°	1748.7	1756.7	1752.1	1749.3	1737.2	1725.1	1720.0	1718.2	1707.3	1674.0	1609.7
22.5°	1834.3	1836.0	1837.7	1830.8	1825.1	1815.9	1806.7	1803.8	1799.8	1765.4	1686.6
25°	1925.6	1932.5	1926.8	1919.9	1913.0	1912.4	1921.0	1919.9	1918.2	1884.8	1788.9
27.5°	2074.4	2080.7	2082.5	2075.0	2048.6	2050.9	2070.4	2076.7	2103.1	2048.0	1920.5
30°	2158.3	2164.6	2179.0	2207.1	2249.1	2285.8	2332.9	2347.3	2372.6	2268.6	2076.7
32.5°	2210.0	2212.3	2238.1	2290.4	2416.2	2553.5	2681.6	2686.8	2702.9	2557.0	2219.8
35°	2291.6	2293.3	2314.0	2371.4	2519.1	2747.7	2945.9	2952.2	2939.0	2646.6	2286.4
37.5°	2392.1	2396.7	2409.9	2457.6	2634.0	2910.3	3055.6	3051.0	2933.8	2717.8	2404.2
40°	2538.6	2538.6	2523.1	2587.4	2755.2	3003.3	3094.1	3086.1	3055.0	2924.1	2583.4
42.5°	2667.8	2665.6	2702.3	2746.0	2906.8	3147.0	3255.5	3268.7	3319.9	3183.1	2787.3
45°	2836.2	2846.5	2867.2	2946.5	3164.8	3392.3	3532.4	3545.1	3617.5	3488.2	3025.7
47.5°	3006.2	3009.7	3074.6	3180.3	3484.2	3724.9	3839.8	3860.5	3926.5	3844.9	3282.5
50°	3126.9	3159.6	3263.6	3430.2	3813.3	4130.5	4220.1	4244.8	4361.4	4233.3	3581.8
52.5°	3254.4	3286.6	3413.5	3667.4	4191.3	4545.2	4655.5	4672.2	4793.4	4626.2	3888.0
55°	3363.5	3393.4	3537.6	3877.7	4492.4	4968.6	5168.5	5149.0	5207.0	4929.0	4124.1
57.5°	3381.3	3405.5	3587.0	4012.1	4718.7	5331.7	5618.3	5629.8	5562.6	5155.3	4318.9
60°	3243.5	3292.9	3501.4	3997.8	4820.4	5584.4	5953.8	5961.9	5771.1	5271.4	4396.4
62.5°	2999.3	2994.1	3246.3	3766.8	4677.9	5641.9	6151.4	6142.8	5852.7	5215.6	4321.2
64°	2662.1	2724.1	2959.7	3483.0	4448.1	5553.4	6172.1	6167.5	5813.7	5099.6	4193.1
65°	2456.4	2453.0	2685.7	3250.9	4219.5	5420.1	6135.4	6129.0	5732.1	4995.6	4093.7
67.5°	1773.4	1781.4	2011.2	2508.7	3430.2	4899.1	5895.8	5872.3	5410.4	4650.9	3715.7
70°	1074.3	1078.9	1259.2	1664.2	2462.2	3960.4	5314.4	5315.6	4918.1	4136.2	3162.5
72.5°	565.9	577.9	650.3	945.0	1495.4	2778.7	4311.4	4413.7	4222.4	3530.1	2498.4
75°	314.8	316.5	367.7	465.9	762.9	1555.1	3240.6	3269.9	3342.9	2841.3	1847.5
77.5°	240.1	243.6	259.7	301.0	415.3	721.0	1961.2	2108.3	2355.9	2003.2	1054.2
80°	194.7	198.2	212.0	236.7	276.3	341.8	911.1	990.4	1261.0	889.3	411.3
82.5°	151.7	149.4	167.2	183.3	201.1	202.2	374.0	413.6	513.6	382.6	178.1
85°	112.6	112.6	127.0	123.5	129.8	118.3	164.9	182.1	205.7	162.6	82.7
87.5°	44.8	49.4	83.3	74.7	58.0	46.5	60.9	64.3	71.2	63.8	34.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8
2.5°	1385.1	1386.8	1382.8	1379.9	1378.7	1377.0	1375.3	1375.9	1378.2	1380.5	1379.9
5°	1391.9	1392.5	1385.6	1382.2	1379.9	1377.6	1377.6	1379.3	1383.9	1387.3	1387.3
7.5°	1409.2	1409.2	1399.4	1393.1	1389.6	1385.6	1384.5	1385.1	1388.5	1393.1	1393.7
10°	1436.2	1433.9	1421.2	1411.5	1405.2	1395.4	1386.8	1382.2	1383.9	1386.8	1386.8
12.5°	1468.9	1462.6	1446.5	1433.3	1417.8	1399.4	1381.6	1372.4	1371.8	1374.7	1373.6
15°	1504.0	1497.1	1474.7	1450.5	1423.5	1396.5	1375.3	1362.1	1351.7	1348.9	1355.2
17.5°	1544.8	1530.4	1499.4	1466.1	1425.8	1390.8	1357.5	1330.5	1312.1	1306.9	1308.6
20°	1594.2	1575.2	1533.3	1481.0	1424.1	1370.1	1318.4	1282.2	1252.3	1243.2	1244.3
22.5°	1662.5	1629.8	1568.3	1488.5	1409.8	1331.1	1259.2	1212.1	1175.9	1161.6	1170.2
25°	1740.1	1704.5	1601.6	1486.7	1372.4	1268.4	1189.2	1127.7	1094.9	1073.7	1078.3
27.5°	1846.9	1783.7	1637.2	1471.2	1319.0	1192.0	1100.1	1042.1	1012.2	1001.3	1006.5
30°	1983.7	1886.6	1675.7	1429.3	1234.5	1095.5	1010.5	972.6	954.8	941.0	945.6
32.5°	2082.5	1958.9	1684.4	1358.6	1143.2	1007.6	949.6	921.5	901.9	888.7	891.6
35°	2153.1	2020.4	1680.3	1271.9	1047.8	935.2	901.3	878.4	846.8	818.0	812.9
37.5°	2247.9	2097.4	1651.0	1177.1	953.6	886.4	862.3	819.8	774.4	735.9	734.2
40°	2393.3	2187.6	1588.4	1065.6	873.2	850.2	820.9	765.8	716.9	685.9	683.6
42.5°	2543.2	2270.9	1503.4	948.5	807.1	812.3	776.7	722.1	692.2	672.1	669.8
45°	2726.4	2361.1	1411.5	846.8	758.3	776.7	738.2	706.6	688.8	675.6	672.1
47.5°	2924.6	2453.6	1308.1	755.4	716.9	743.9	722.1	707.7	698.0	688.8	684.8
50°	3138.3	2557.0	1211.0	681.9	679.6	710.0	720.4	715.2	709.5	706.6	703.2
52.5°	3372.7	2662.7	1129.4	630.2	646.9	685.9	721.0	725.0	725.0	723.3	721.0
55°	3531.3	2736.2	1046.7	588.3	613.5	666.4	719.8	735.3	741.1	738.8	736.5
57.5°	3648.5	2776.4	942.7	552.1	585.4	647.4	713.5	736.5	742.2	745.1	743.9
60°	3672.6	2739.1	806.6	514.2	554.9	619.9	690.5	719.2	726.7	744.5	746.2
62.5°	3564.0	2624.2	671.0	476.8	517.6	577.9	659.5	699.7	714.6	742.2	745.1
64°	3430.7	2495.5	595.7	453.3	493.5	554.4	644.0	694.5	714.1	750.8	753.1
65°	3333.1	2401.9	548.6	438.3	478.0	538.9	635.4	696.3	719.2	764.0	767.5
67.5°	2973.5	2079.6	453.8	403.3	441.2	512.4	637.1	710.6	718.1	769.2	768.6
70°	2460.5	1655.6	380.3	371.1	405.6	491.2	630.2	687.6	688.2	722.1	714.1
72.5°	1842.3	1223.6	329.7	337.8	365.9	440.6	595.2	656.6	646.9	651.5	643.4
75°	1265.6	809.4	283.8	302.2	324.6	389.5	545.7	596.3	580.8	575.0	569.3
77.5°	675.6	447.5	236.1	267.1	282.1	336.6	476.2	525.1	509.0	486.6	479.1
80°	273.4	210.8	190.2	221.2	229.8	271.2	396.4	426.8	414.8	375.7	363.1
82.5°	137.3	126.4	149.4	174.1	174.6	193.6	294.7	323.4	296.4	248.7	237.8
85°	71.8	74.1	102.8	122.4	108.0	104.6	176.9	195.9	179.8	156.3	140.7
87.5°	25.9	29.9	54.0	53.4	37.9	20.1	39.1	19.0	10.3	6.3	8.0
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)