

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: P452300

Luminaire Tested: **GALN-SA3B-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452300
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-SA3B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14087 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

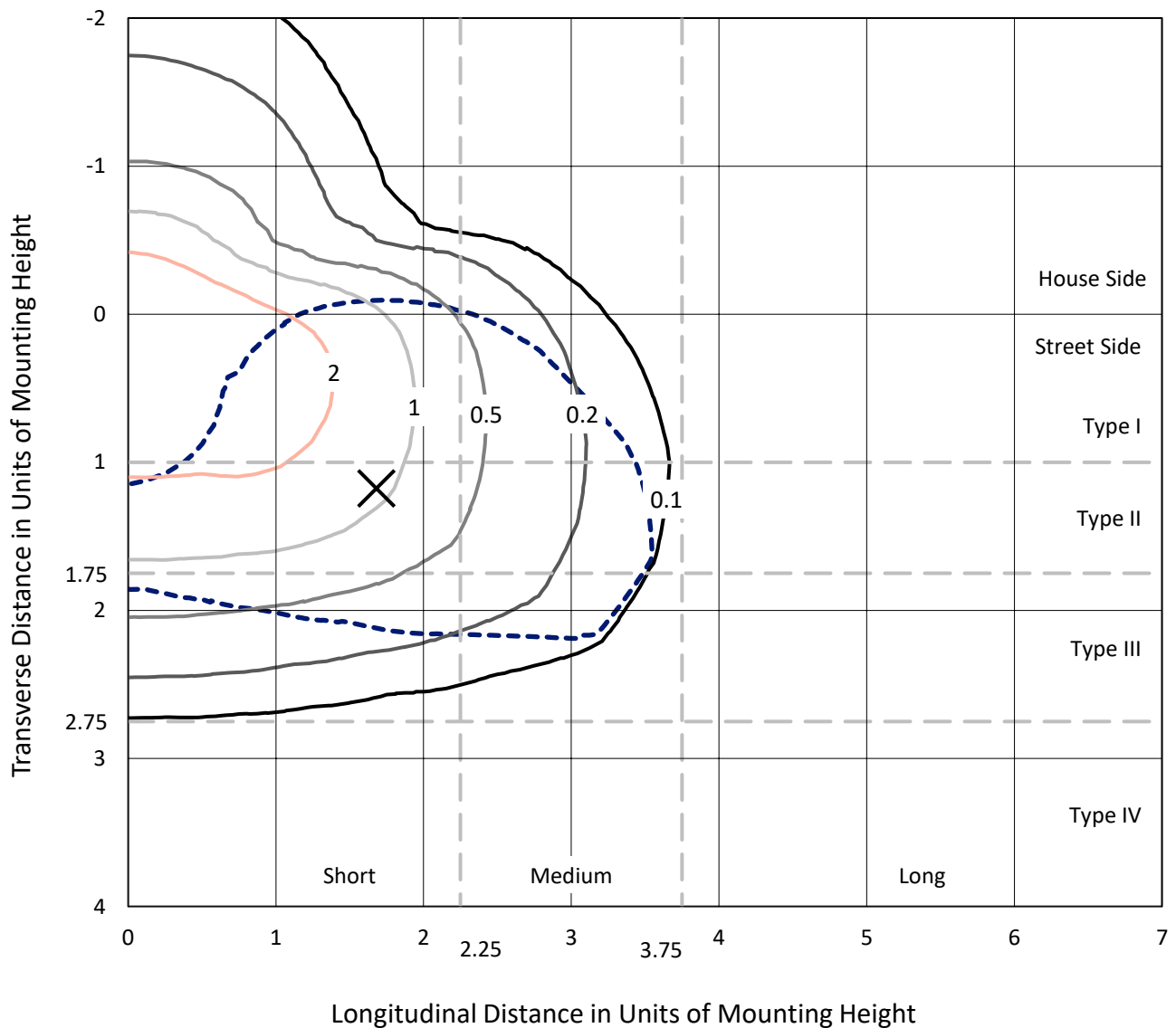
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

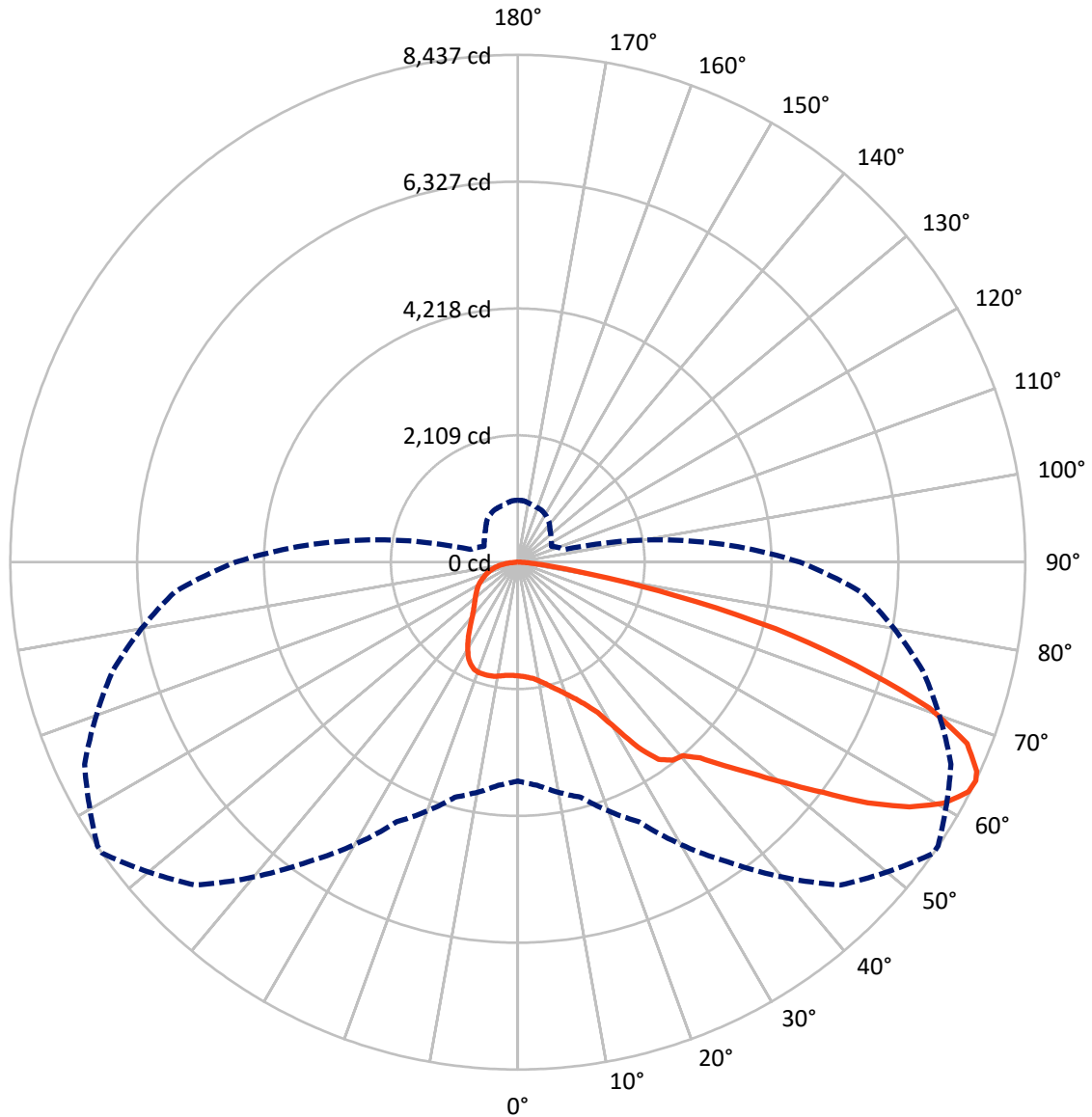
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	3422.0	0.0	3422.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	10665.0	0.0	10665.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	14087.0	0.0	14087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	1.3
10°-20°	580.1	4.1
20°-30°	1032.7	7.3
30°-40°	1589.0	11.3
40°-50°	2252.5	16.0
50°-60°	3260.5	23.1
60°-70°	3374.2	24.0
70°-80°	1580.2	11.2
80°-90°	233.9	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°	14087.0	100.0
0°-180°	14087.0	100.0

Coefficient of Utilization



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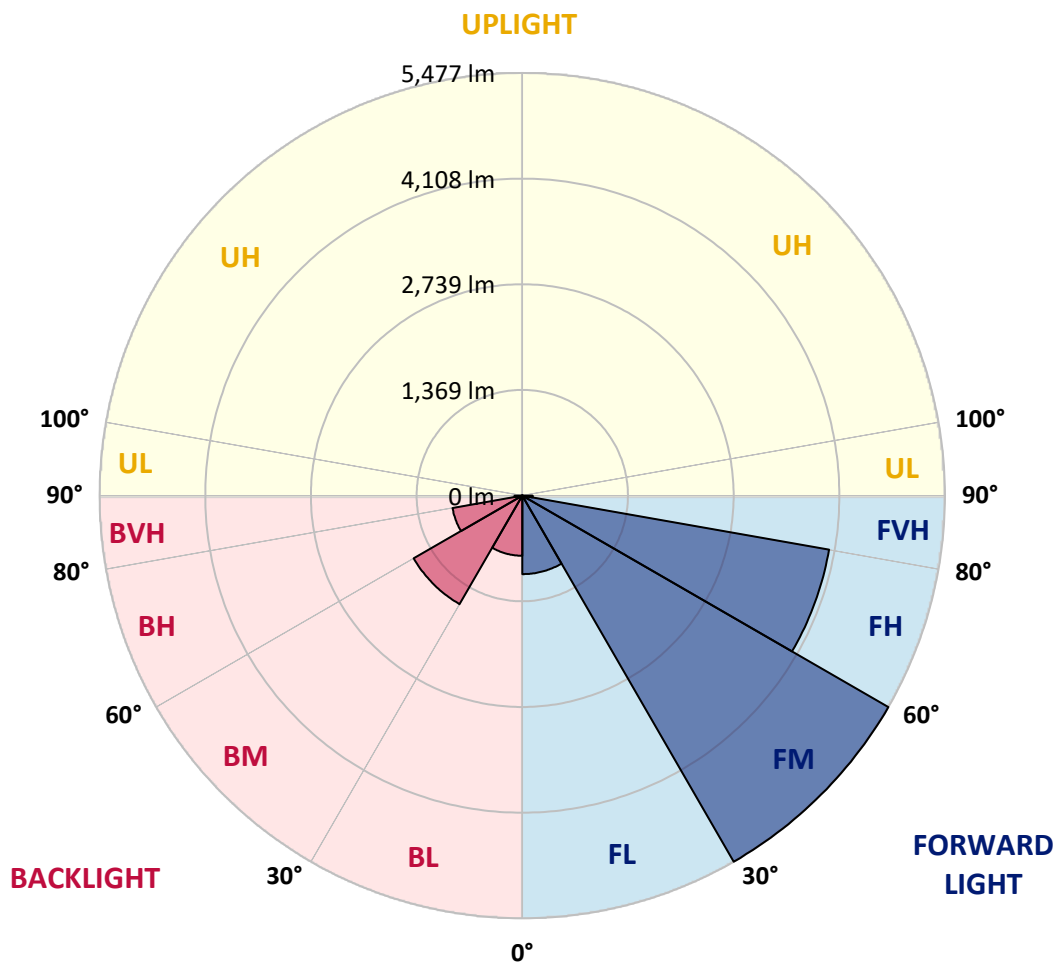
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1017.3	7.2			
FM	(30°-60°)	5477.4	38.9			
FH	(60°-80°)	4036.3	28.7			G2/5000
FVH	(80°-90°)	133.9	1.0			G2/225
BL	(0°-30°)	779.4	5.5	B2/1000		
BM	(30°-60°)	1624.6	11.5	B2/2500		
BH	(60°-80°)	918.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	100.0	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°	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1
2.5°	1911.3	1910.5	1912.8	1910.5	1912.0	1906.5	1904.2	1905.8	1903.4	1899.5	1892.4
5°	1934.8	1934.0	1934.8	1931.7	1933.2	1930.1	1924.6	1926.2	1922.2	1913.6	1903.4
7.5°	1974.9	1971.7	1971.7	1970.9	1967.8	1963.1	1959.2	1957.6	1953.7	1942.7	1927.0
10°	2026.7	2026.7	2027.5	2021.2	2025.1	2016.5	2012.5	2011.8	1998.4	1984.3	1962.3
12.5°	2095.0	2098.9	2096.6	2093.4	2091.9	2088.7	2075.4	2078.5	2063.6	2039.2	2012.5
15°	2179.8	2186.1	2182.2	2180.6	2176.7	2164.9	2159.4	2157.0	2137.4	2102.1	2066.7
17.5°	2292.1	2284.2	2281.1	2277.2	2260.7	2252.0	2242.6	2241.0	2223.8	2182.2	2127.2
20°	2390.2	2401.2	2395.0	2391.0	2374.5	2358.0	2351.0	2348.6	2333.7	2288.2	2200.2
22.5°	2507.2	2509.6	2512.0	2502.5	2494.7	2482.1	2469.6	2465.6	2460.1	2413.0	2305.4
25°	2632.1	2641.5	2633.7	2624.2	2614.8	2614.0	2625.8	2624.2	2621.9	2576.3	2445.2
27.5°	2835.5	2844.1	2846.5	2836.3	2800.1	2803.3	2830.0	2838.6	2874.7	2799.3	2625.0
30°	2950.1	2958.7	2978.4	3016.9	3074.2	3124.4	3188.8	3208.5	3243.0	3100.9	2838.6
32.5°	3020.8	3023.9	3059.3	3130.7	3302.7	3490.4	3665.5	3672.5	3694.5	3495.1	3034.1
35°	3132.3	3134.6	3162.9	3241.4	3443.2	3755.8	4026.7	4035.3	4017.2	3617.6	3125.2
37.5°	3269.7	3276.0	3294.0	3359.2	3600.3	3978.0	4176.6	4170.4	4010.2	3714.9	3286.2
40°	3469.9	3469.9	3448.7	3536.7	3766.0	4105.2	4229.3	4218.3	4175.9	3996.8	3531.2
42.5°	3646.6	3643.5	3693.7	3753.4	3973.3	4301.5	4449.9	4468.0	4537.8	4351.0	3809.9
45°	3876.7	3890.8	3919.1	4027.4	4325.8	4636.8	4828.4	4845.7	4944.6	4767.9	4135.8
47.5°	4109.1	4113.8	4202.6	4347.0	4762.4	5091.4	5248.5	5276.8	5367.1	5255.5	4486.8
50°	4274.0	4318.8	4460.9	4688.6	5212.4	5645.8	5768.3	5802.1	5961.5	5786.4	4895.9
52.5°	4448.3	4492.3	4665.8	5012.9	5729.0	6212.7	6363.5	6386.3	6552.0	6323.5	5314.4
55°	4597.5	4638.4	4835.5	5300.3	6140.5	6791.5	7064.7	7038.0	7117.3	6737.3	5637.2
57.5°	4621.9	4654.8	4903.0	5484.1	6449.9	7287.7	7679.6	7695.3	7603.4	7046.7	5903.4
60°	4433.4	4500.9	4786.0	5464.4	6588.9	7633.2	8138.1	8149.1	7888.4	7205.3	6009.4
62.5°	4099.7	4092.6	4437.3	5148.8	6394.1	7711.8	8408.2	8396.5	7999.9	7129.1	5906.5
64°	3638.8	3723.6	4045.5	4760.9	6080.0	7590.8	8436.5	8430.2	7946.5	6970.5	5731.4
65°	3357.6	3352.9	3671.0	4443.6	5767.5	7408.7	8386.3	8377.6	7835.0	6828.4	5595.6
67.5°	2424.0	2435.0	2749.1	3429.1	4688.6	6696.4	8058.8	8026.6	7395.3	6357.2	5078.9
70°	1468.4	1474.7	1721.2	2274.8	3365.5	5413.4	7264.2	7265.7	6722.4	5653.7	4322.7
72.5°	773.5	789.9	888.9	1291.7	2044.0	3798.2	5893.2	6032.9	5771.4	4825.2	3415.0
75°	430.3	432.7	502.5	636.8	1042.8	2125.6	4429.5	4469.5	4569.3	3883.8	2525.3
77.5°	328.2	332.9	354.9	411.5	567.7	985.5	2680.8	2881.8	3220.2	2738.1	1440.9
80°	266.2	270.9	289.8	323.5	377.7	467.2	1245.4	1353.7	1723.6	1215.5	562.2
82.5°	207.3	204.2	228.5	250.5	274.8	276.4	511.2	565.4	702.0	523.0	243.4
85°	153.9	153.9	173.5	168.8	177.5	161.8	225.4	248.9	281.1	222.2	113.1
87.5°	61.2	67.5	113.9	102.1	79.3	63.6	83.2	87.9	97.4	87.2	47.1
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°	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1	1890.1
2.5°	1893.2	1895.5	1890.1	1886.1	1884.6	1882.2	1879.8	1880.6	1883.8	1886.9	1886.1
5°	1902.6	1903.4	1894.0	1889.3	1886.1	1883.0	1883.0	1885.3	1891.6	1896.3	1896.3
7.5°	1926.2	1926.2	1912.8	1904.2	1899.5	1894.0	1892.4	1893.2	1897.9	1904.2	1905.0
10°	1963.1	1959.9	1942.7	1929.3	1920.7	1907.3	1895.5	1889.3	1891.6	1895.5	1895.5
12.5°	2007.8	1999.2	1977.2	1959.2	1937.9	1912.8	1888.5	1875.9	1875.1	1879.1	1877.5
15°	2055.7	2046.3	2015.7	1982.7	1945.8	1908.9	1879.8	1861.8	1847.6	1843.7	1852.4
17.5°	2111.5	2091.9	2049.5	2003.9	1948.9	1901.0	1855.5	1818.6	1793.5	1786.4	1788.8
20°	2179.0	2153.1	2095.8	2024.3	1946.6	1872.8	1802.1	1752.6	1711.8	1699.2	1700.8
22.5°	2272.5	2227.7	2143.7	2034.5	1927.0	1819.4	1721.2	1656.8	1607.4	1587.7	1599.5
25°	2378.5	2329.8	2189.2	2032.2	1875.9	1733.8	1625.4	1541.4	1496.6	1467.6	1473.9
27.5°	2524.5	2438.1	2237.9	2011.0	1802.9	1629.4	1503.7	1424.4	1383.6	1368.7	1375.7
30°	2711.4	2578.7	2290.5	1953.7	1687.5	1497.4	1381.2	1329.4	1305.1	1286.2	1292.5
32.5°	2846.5	2677.6	2302.3	1857.1	1562.6	1377.3	1298.0	1259.5	1232.8	1214.8	1218.7
35°	2943.0	2761.7	2296.8	1738.5	1432.3	1278.4	1232.0	1200.6	1157.4	1118.2	1111.1
37.5°	3072.6	2866.9	2256.8	1608.9	1303.5	1211.6	1178.6	1120.5	1058.5	1005.9	1003.5
40°	3271.3	2990.2	2171.2	1456.6	1193.6	1162.1	1122.1	1046.7	980.0	937.6	934.4
42.5°	3476.2	3104.0	2054.9	1296.4	1103.2	1110.3	1061.6	987.0	946.2	918.7	915.6
45°	3726.7	3227.3	1929.3	1157.4	1036.5	1061.6	1009.0	965.8	941.5	923.4	918.7
47.5°	3997.6	3353.7	1788.0	1032.6	980.0	1016.9	987.0	967.4	954.1	941.5	936.0
50°	4289.7	3495.1	1655.3	932.1	928.9	970.5	984.7	977.6	969.8	965.8	961.1
52.5°	4610.1	3639.5	1543.8	861.4	884.2	937.6	985.5	991.0	991.0	988.6	985.5
55°	4826.8	3740.1	1430.7	804.1	838.6	910.9	983.9	1005.1	1012.9	1009.8	1006.7
57.5°	4987.0	3795.0	1288.6	754.6	800.2	885.0	975.3	1006.7	1014.5	1018.4	1016.9
60°	5020.0	3744.0	1102.5	702.8	758.5	847.3	943.8	983.1	993.3	1017.7	1020.0
62.5°	4871.6	3586.9	917.1	651.7	707.5	789.9	901.4	956.4	976.8	1014.5	1018.4
64°	4689.4	3411.0	814.3	619.5	674.5	757.7	880.2	949.3	976.0	1026.3	1029.4
65°	4555.9	3283.0	749.9	599.1	653.3	736.5	868.5	951.7	983.1	1044.4	1049.1
67.5°	4064.4	2842.5	620.3	551.2	603.1	700.4	870.8	971.3	981.5	1051.4	1050.6
70°	3363.1	2263.0	519.8	507.3	554.4	671.4	861.4	939.9	940.7	987.0	976.0
72.5°	2518.2	1672.5	450.7	461.7	500.2	602.3	813.5	897.5	884.2	890.5	879.5
75°	1729.9	1106.4	387.9	413.0	443.7	532.4	746.0	815.1	793.9	786.0	778.2
77.5°	923.4	611.7	322.7	365.1	385.5	460.1	651.0	717.7	695.7	665.1	654.9
80°	373.8	288.2	259.9	302.3	314.1	370.6	541.8	583.4	566.9	513.5	496.3
82.5°	187.7	172.8	204.2	237.9	238.7	264.6	402.8	442.1	405.2	340.0	325.1
85°	98.2	101.3	140.6	167.3	147.6	142.9	241.9	267.8	245.8	213.6	192.4
87.5°	35.3	40.8	73.8	73.0	51.8	27.5	53.4	25.9	14.1	8.6	11.0
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)