

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: P451836

Luminaire Tested: **GALN-SA2D-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451836
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-SA2D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12902 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

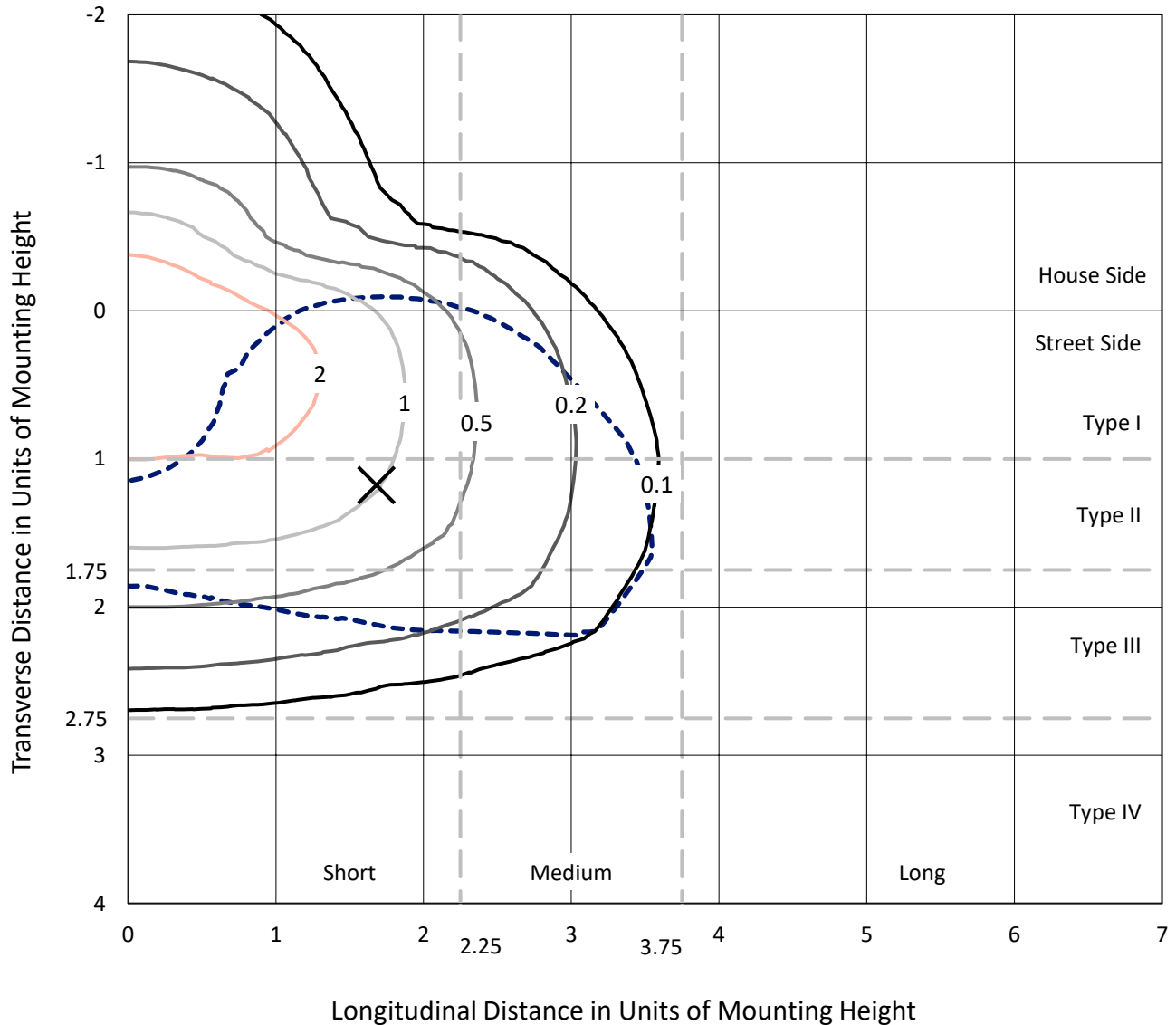
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

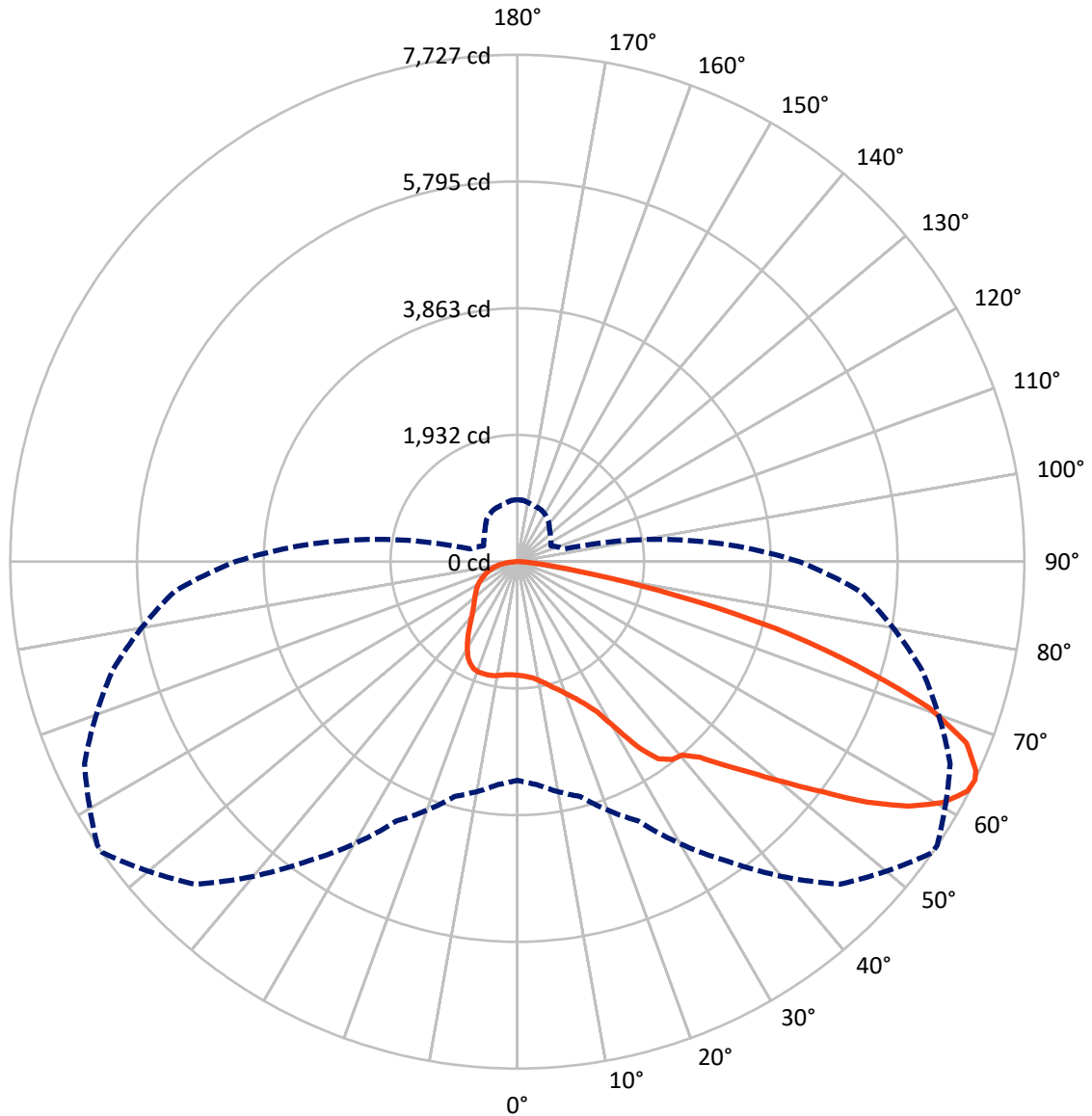
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	3134.1	0.0	3134.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9767.9	0.0	9767.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	12902.0	0.0	12902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	1.3
10°-20°	531.3	4.1
20°-30°	945.9	7.3
30°-40°	1455.3	11.3
40°-50°	2063.0	16.0
50°-60°	2986.2	23.1
60°-70°	3090.4	24.0
70°-80°	1447.2	11.2
80°-90°	214.2	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°	12902.0	100.0
0°-180°	12902.0	100.0

Coefficient of Utilization



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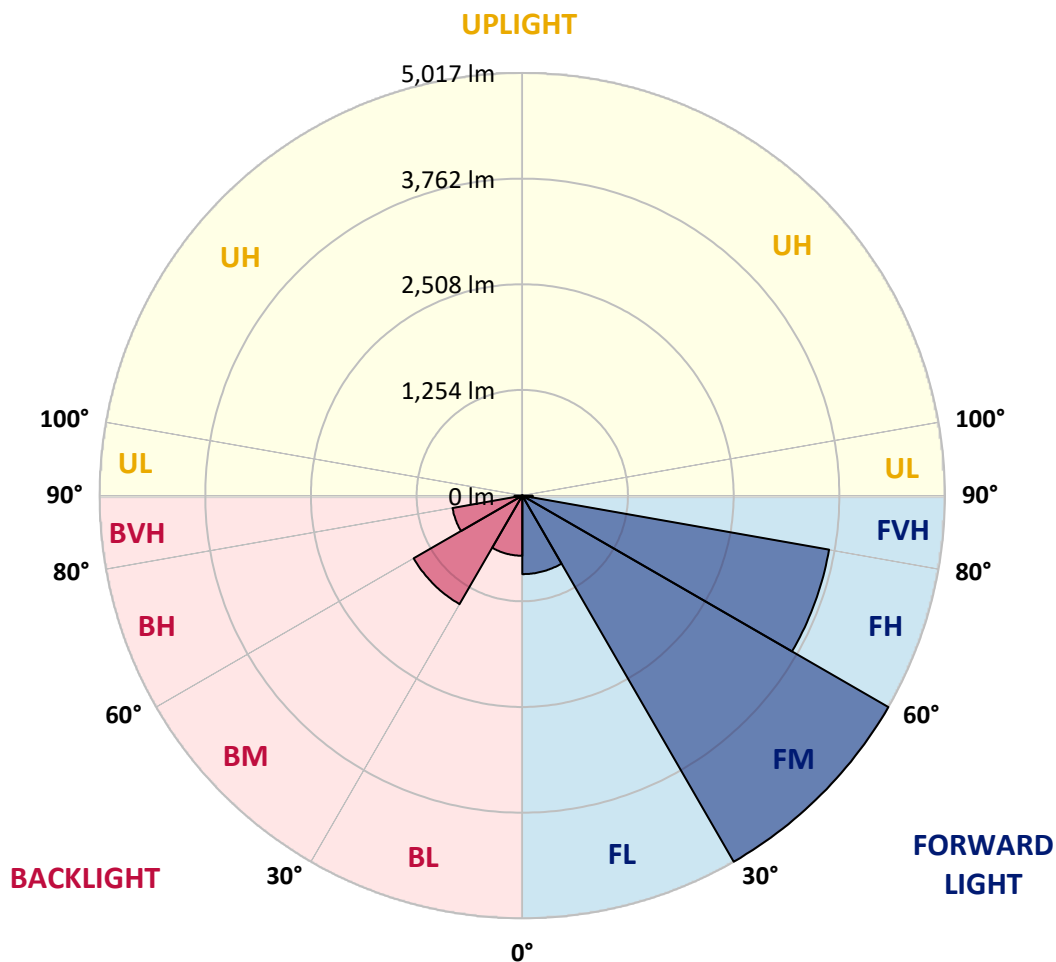
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	931.7	7.2			
FM	(30°-60°)	5016.6	38.9			
FH	(60°-80°)	3696.8	28.7			G2/5000
FVH	(80°-90°)	122.7	1.0			G2/225
BL	(0°-30°)	713.8	5.5	B2/1000		
BM	(30°-60°)	1487.9	11.5	B2/2500		
BH	(60°-80°)	840.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	91.6	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°	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1
2.5°	1750.5	1749.8	1751.9	1749.8	1751.2	1746.2	1744.0	1745.4	1743.3	1739.7	1733.2
5°	1772.1	1771.3	1772.1	1769.2	1770.6	1767.7	1762.7	1764.1	1760.5	1752.6	1743.3
7.5°	1808.7	1805.9	1805.9	1805.1	1802.3	1797.9	1794.3	1792.9	1789.3	1779.2	1764.9
10°	1856.2	1856.2	1856.9	1851.2	1854.8	1846.8	1843.3	1842.5	1830.3	1817.4	1797.2
12.5°	1918.8	1922.4	1920.2	1917.3	1915.9	1913.0	1900.8	1903.7	1890.0	1867.7	1843.3
15°	1996.4	2002.2	1998.6	1997.2	1993.6	1982.8	1977.7	1975.6	1957.6	1925.2	1892.9
17.5°	2099.3	2092.1	2089.2	2085.6	2070.5	2062.6	2054.0	2052.5	2036.7	1998.6	1948.3
20°	2189.2	2199.2	2193.5	2189.9	2174.8	2159.7	2153.2	2151.1	2137.4	2095.7	2015.1
22.5°	2296.3	2298.5	2300.6	2292.0	2284.8	2273.3	2261.8	2258.2	2253.2	2210.0	2111.5
25°	2410.7	2419.3	2412.1	2403.5	2394.9	2394.1	2404.9	2403.5	2401.3	2359.6	2239.5
27.5°	2596.9	2604.9	2607.0	2597.7	2564.6	2567.5	2591.9	2599.8	2632.9	2563.9	2404.2
30°	2701.9	2709.9	2727.8	2763.1	2815.6	2861.6	2920.6	2938.6	2970.2	2840.0	2599.8
32.5°	2766.7	2769.6	2801.9	2867.4	3024.9	3196.7	3357.1	3363.6	3383.7	3201.1	2778.9
35°	2868.8	2871.0	2896.8	2968.8	3153.6	3439.8	3687.9	3695.9	3679.3	3313.2	2862.3
37.5°	2994.7	3000.4	3016.9	3076.6	3297.4	3643.4	3825.3	3819.5	3672.8	3402.4	3009.8
40°	3178.0	3178.0	3158.6	3239.2	3449.2	3759.9	3873.5	3863.4	3824.6	3660.6	3234.1
42.5°	3339.9	3337.0	3383.0	3437.7	3639.0	3939.7	4075.6	4092.1	4156.1	3985.0	3489.4
45°	3550.6	3563.5	3589.4	3688.7	3961.9	4246.7	4422.2	4438.0	4528.7	4366.8	3787.9
47.5°	3763.5	3767.8	3849.0	3981.4	4361.8	4663.1	4807.0	4832.9	4915.6	4813.5	4109.4
50°	3914.5	3955.5	4085.6	4294.2	4773.9	5170.9	5283.1	5314.0	5460.0	5299.6	4484.1
52.5°	4074.1	4114.4	4273.3	4591.2	5247.1	5690.1	5828.2	5849.1	6000.8	5791.5	4867.4
55°	4210.8	4248.2	4428.7	4854.4	5624.0	6220.2	6470.4	6446.0	6518.6	6170.5	5163.0
57.5°	4233.1	4263.3	4490.5	5022.7	5907.3	6674.7	7033.6	7047.9	6963.8	6453.9	5406.8
60°	4060.5	4122.3	4383.4	5004.8	6034.6	6991.1	7453.6	7463.6	7224.9	6599.2	5503.9
62.5°	3754.8	3748.4	4064.1	4715.6	5856.3	7063.0	7700.9	7690.2	7327.0	6529.4	5409.6
64°	3332.7	3410.3	3705.2	4360.4	5568.6	6952.3	7726.8	7721.1	7278.1	6384.1	5249.3
65°	3075.2	3070.9	3362.2	4069.8	5282.4	6785.4	7680.8	7672.9	7175.9	6254.0	5124.9
67.5°	2220.1	2230.2	2517.8	3140.6	4294.2	6133.1	7380.9	7351.4	6773.2	5822.5	4651.6
70°	1344.9	1350.6	1576.4	2083.5	3082.4	4958.0	6653.1	6654.5	6156.9	5178.1	3959.1
72.5°	708.4	723.5	814.1	1183.0	1872.0	3478.7	5397.4	5525.4	5286.0	4419.3	3127.7
75°	394.1	396.3	460.3	583.3	955.1	1946.8	4056.9	4093.6	4184.9	3557.0	2312.9
77.5°	300.6	304.9	325.1	376.8	520.0	902.6	2455.3	2639.4	2949.3	2507.8	1319.7
80°	243.8	248.1	265.4	296.3	345.9	427.9	1140.6	1239.9	1578.6	1113.3	514.9
82.5°	189.9	187.0	209.3	229.4	251.7	253.2	468.2	517.8	642.9	479.0	222.9
85°	141.0	141.0	158.9	154.6	162.5	148.2	206.4	228.0	257.5	203.5	103.6
87.5°	56.1	61.8	104.3	93.5	72.6	58.3	76.2	80.5	89.2	79.8	43.2
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°	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1
2.5°	1733.9	1736.1	1731.1	1727.5	1726.0	1723.9	1721.7	1722.4	1725.3	1728.2	1727.5
5°	1742.6	1743.3	1734.7	1730.3	1727.5	1724.6	1724.6	1726.7	1732.5	1736.8	1736.8
7.5°	1764.1	1764.1	1751.9	1744.0	1739.7	1734.7	1733.2	1733.9	1738.3	1744.0	1744.7
10°	1797.9	1795.1	1779.2	1767.0	1759.1	1746.9	1736.1	1730.3	1732.5	1736.1	1736.1
12.5°	1838.9	1831.0	1810.9	1794.3	1774.9	1751.9	1729.6	1718.1	1717.4	1721.0	1719.6
15°	1882.8	1874.2	1846.1	1815.9	1782.1	1748.3	1721.7	1705.2	1692.2	1688.6	1696.5
17.5°	1933.9	1915.9	1877.1	1835.3	1785.0	1741.1	1699.4	1665.6	1642.6	1636.1	1638.3
20°	1995.7	1972.0	1919.5	1854.0	1782.8	1715.2	1650.5	1605.2	1567.8	1556.3	1557.7
22.5°	2081.3	2040.3	1963.4	1863.4	1764.9	1666.3	1576.4	1517.5	1472.2	1454.2	1465.0
25°	2178.4	2133.8	2005.1	1861.2	1718.1	1587.9	1488.7	1411.7	1370.8	1344.1	1349.9
27.5°	2312.2	2233.0	2049.7	1841.8	1651.2	1492.3	1377.2	1304.6	1267.2	1253.5	1260.0
30°	2483.3	2361.8	2097.8	1789.3	1545.5	1371.5	1265.0	1217.6	1195.3	1178.0	1183.8
32.5°	2607.0	2452.4	2108.6	1700.9	1431.2	1261.4	1188.8	1153.6	1129.1	1112.6	1116.2
35°	2695.5	2529.3	2103.6	1592.3	1311.8	1170.8	1128.4	1099.6	1060.1	1024.1	1017.6
37.5°	2814.1	2625.7	2066.9	1473.6	1193.8	1109.7	1079.5	1026.3	969.5	921.3	919.1
40°	2996.1	2738.6	1988.5	1334.1	1093.1	1064.4	1027.7	958.7	897.5	858.7	855.8
42.5°	3183.8	2842.9	1882.1	1187.4	1010.4	1016.9	972.3	904.0	866.6	841.4	838.6
45°	3413.2	2955.8	1767.0	1060.1	949.3	972.3	924.1	884.6	862.3	845.8	841.4
47.5°	3661.3	3071.6	1637.6	945.7	897.5	931.3	904.0	886.0	873.8	862.3	857.3
50°	3928.9	3201.1	1516.0	853.7	850.8	888.9	901.8	895.4	888.2	884.6	880.3
52.5°	4222.3	3333.4	1413.9	788.9	809.8	858.7	902.6	907.6	907.6	905.4	902.6
55°	4420.8	3425.4	1310.3	736.4	768.1	834.2	901.1	920.5	927.7	924.9	922.0
57.5°	4567.5	3475.8	1180.2	691.1	732.8	810.5	893.2	922.0	929.2	932.8	931.3
60°	4597.7	3429.0	1009.7	643.7	694.7	776.0	864.5	900.4	909.8	932.1	934.2
62.5°	4461.8	3285.2	840.0	596.9	648.0	723.5	825.6	876.0	894.7	929.2	932.8
64°	4294.9	3124.1	745.8	567.4	617.8	694.0	806.2	869.5	893.9	940.0	942.8
65°	4172.7	3006.9	686.8	548.7	598.4	674.6	795.4	871.6	900.4	956.5	960.8
67.5°	3722.5	2603.4	568.1	504.9	552.3	641.5	797.6	889.6	899.0	963.0	962.3
70°	3080.2	2072.7	476.1	464.6	507.7	614.9	788.9	860.9	861.6	904.0	893.9
72.5°	2306.4	1531.8	412.8	422.9	458.1	551.6	745.1	822.0	809.8	815.5	805.5
75°	1584.3	1013.3	355.3	378.3	406.3	487.6	683.2	746.5	727.1	719.9	712.7
77.5°	845.8	560.2	295.6	334.4	353.1	421.4	596.2	657.3	637.2	609.1	599.8
80°	342.3	263.9	238.0	276.9	287.7	339.5	496.2	534.3	519.2	470.3	454.5
82.5°	171.9	158.2	187.0	217.9	218.6	242.4	368.9	404.9	371.1	311.4	297.7
85°	89.9	92.8	128.7	153.2	135.2	130.9	221.5	245.2	225.1	195.6	176.2
87.5°	32.4	37.4	67.6	66.9	47.5	25.2	48.9	23.7	12.9	7.9	10.1
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)