

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: P452202

Luminaire Tested: **GALN-SA3A-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9823 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

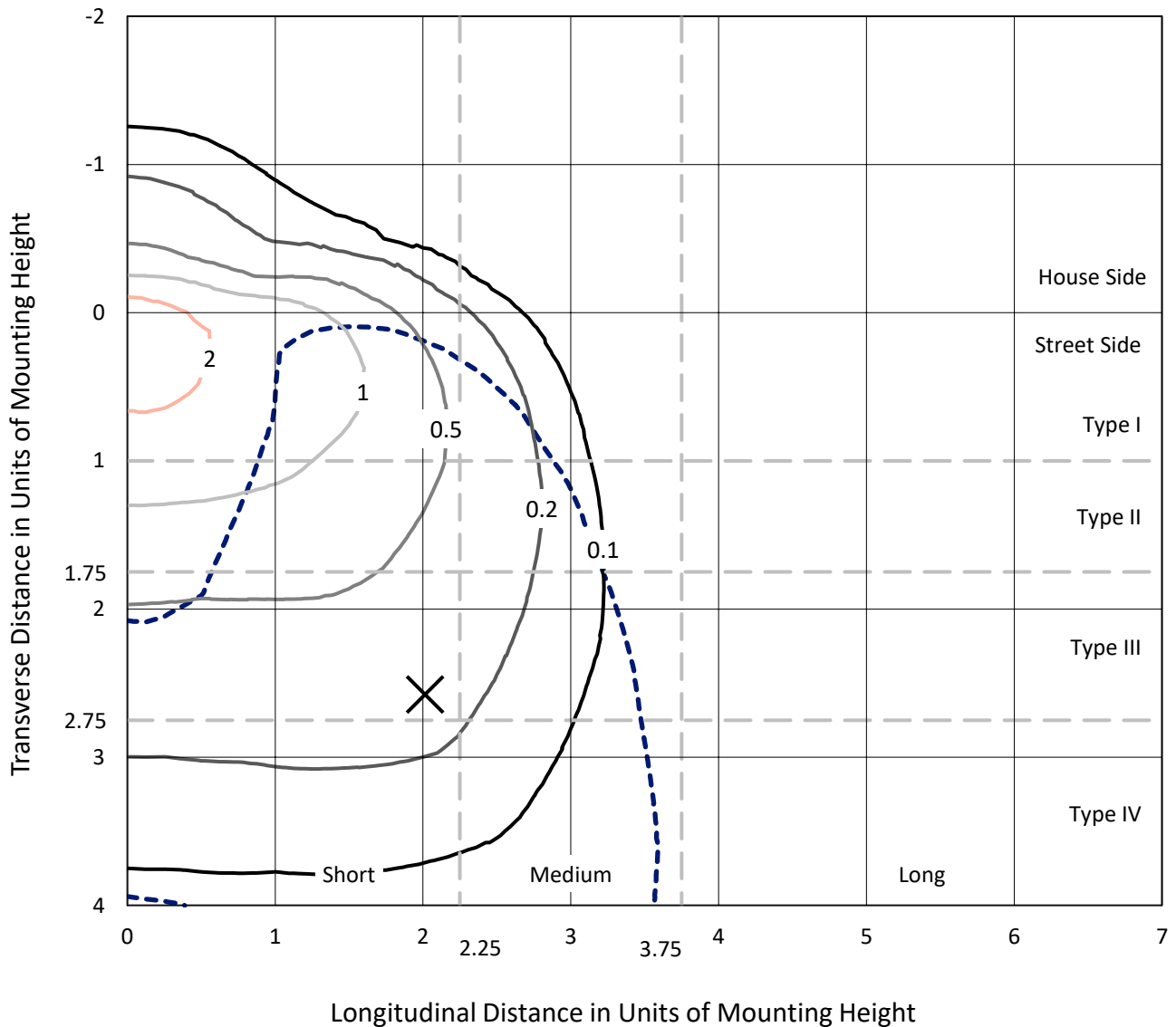
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

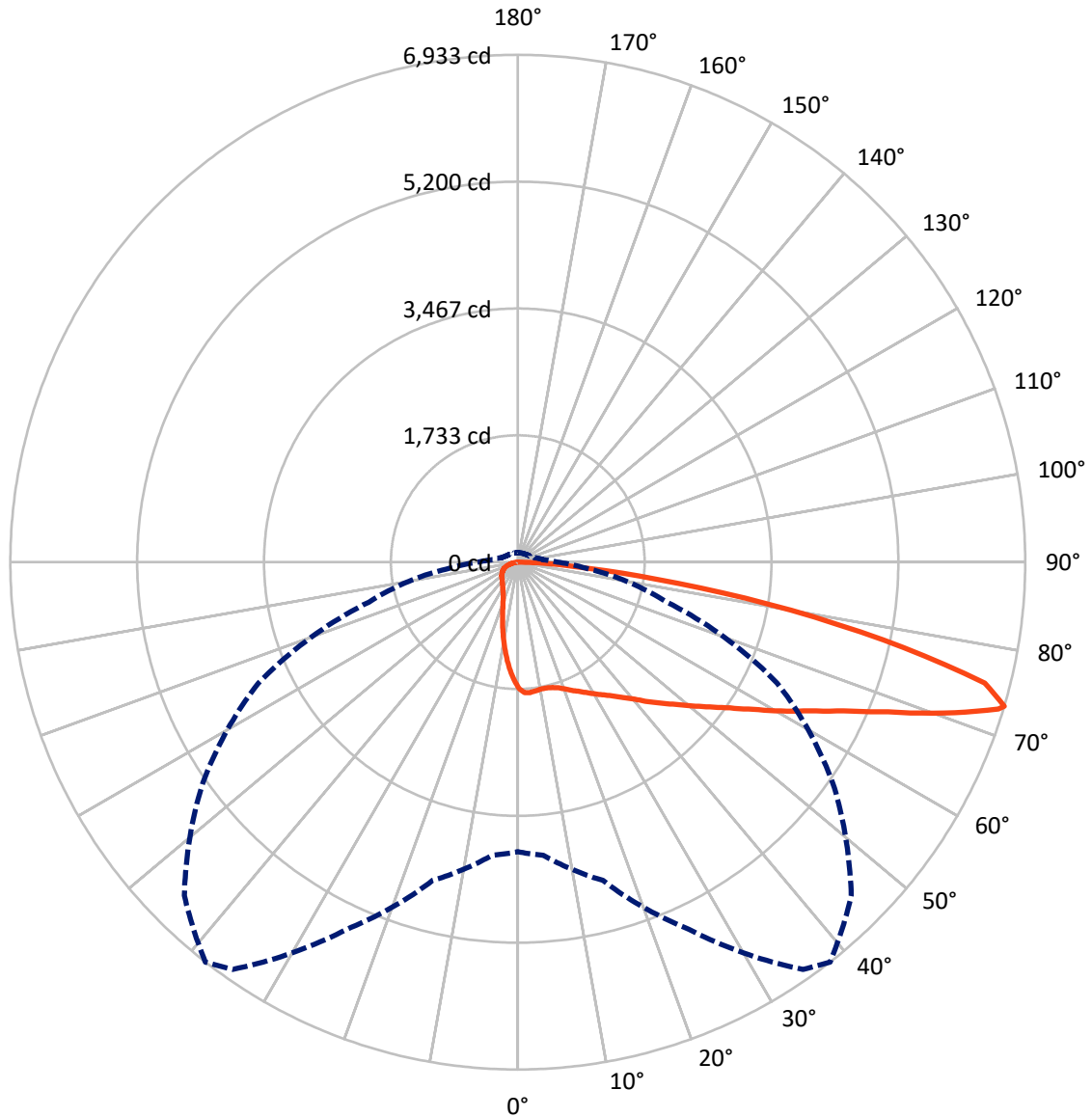
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1320.5	0.0	1320.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8502.5	0.0	8502.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	9823.0	0.0	9823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.5
10°-20°	386.3	3.9
20°-30°	601.5	6.1
30°-40°	882.3	9.0
40°-50°	1308.8	13.3
50°-60°	1854.3	18.9
60°-70°	2352.2	23.9
70°-80°	1958.0	19.9
80°-90°	329.0	3.3
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°	9823.0	100.0
0°-180°	9823.0	100.0

Coefficient of Utilization



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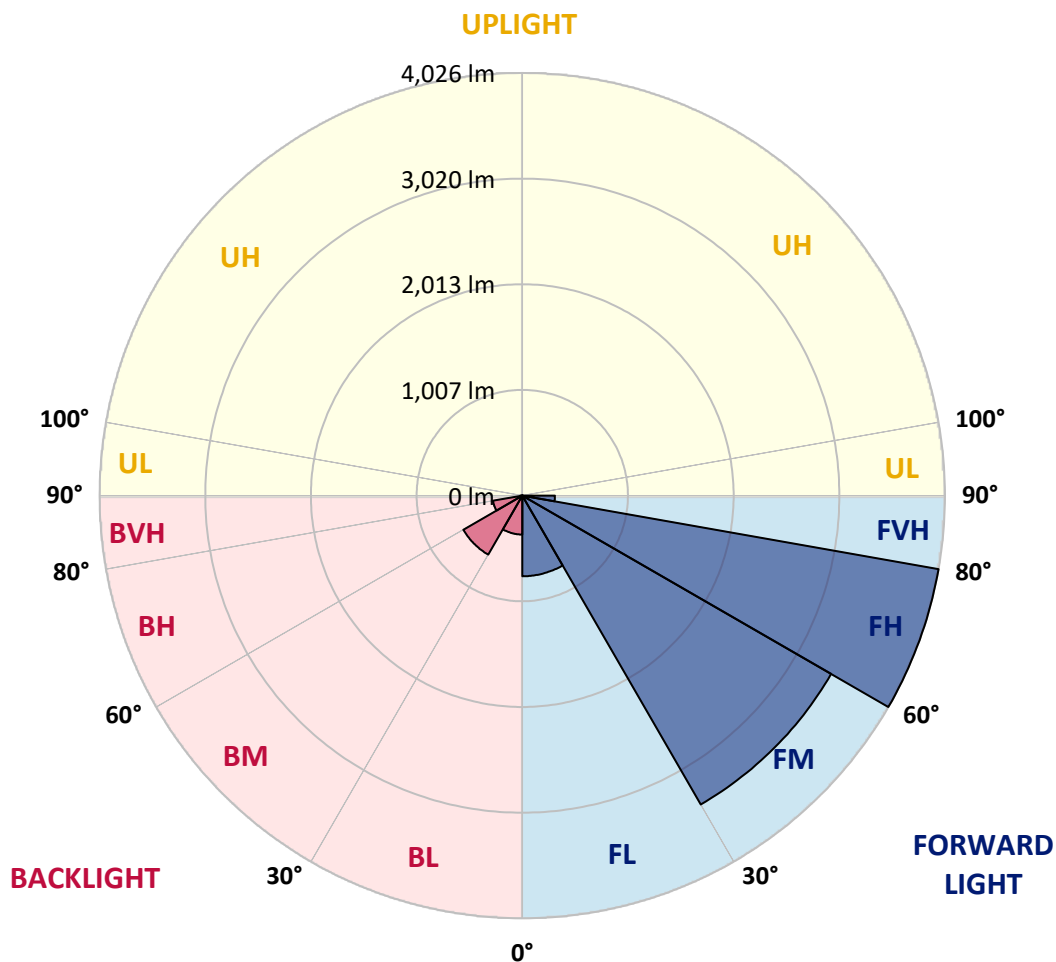
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.9	7.8			
FM (30°-60°)	3397.1	34.6			
FH (60°-80°)	4026.4	41.0			G2/5000
FVH (80°-90°)	311.1	3.2			G3/500
BL (0°-30°)	370.5	3.8	B1/500		
BM (30°-60°)	648.3	6.6	B1/1000		
BH (60°-80°)	283.8	2.9	B1/500		G1/500
BVH (80°-90°)	17.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7
2.5°	1795.1	1804.0	1799.5	1793.4	1789.5	1785.6	1780.1	1764.0	1751.3	1737.4	1715.7
5°	1808.4	1813.9	1810.1	1802.3	1793.4	1789.5	1779.0	1757.9	1737.4	1714.1	1681.9
7.5°	1800.6	1802.8	1798.4	1789.0	1781.2	1774.0	1761.8	1738.5	1713.5	1685.2	1643.1
10°	1772.9	1781.2	1781.2	1773.4	1765.7	1761.8	1749.6	1727.4	1704.7	1672.5	1622.6
12.5°	1750.1	1759.0	1766.2	1764.0	1763.5	1763.5	1754.0	1737.4	1710.8	1680.2	1620.9
15°	1734.6	1745.1	1760.7	1769.6	1775.1	1776.8	1772.9	1758.5	1731.3	1695.8	1627.5
17.5°	1731.3	1744.0	1772.3	1791.7	1806.2	1805.6	1804.5	1784.5	1754.6	1718.0	1635.9
20°	1746.3	1762.9	1802.3	1832.8	1853.9	1850.0	1843.9	1817.8	1782.9	1741.8	1643.6
22.5°	1791.2	1808.4	1851.7	1884.9	1905.5	1905.5	1887.2	1852.8	1815.6	1769.6	1654.2
25°	1855.5	1874.4	1920.4	1954.3	1963.7	1956.5	1938.2	1896.6	1853.9	1809.5	1676.4
27.5°	1934.3	1957.1	1999.8	2028.1	2025.3	2019.7	2000.9	1947.6	1904.9	1864.4	1714.1
30°	2032.5	2049.1	2093.5	2100.2	2090.2	2089.1	2062.4	2009.2	1969.3	1938.2	1767.9
32.5°	2125.1	2140.1	2175.6	2178.4	2160.6	2162.9	2137.9	2089.1	2066.3	2055.2	1858.3
35°	2223.3	2231.1	2261.6	2258.3	2246.6	2245.0	2235.0	2188.4	2195.6	2215.6	1986.5
37.5°	2305.4	2320.9	2338.1	2340.9	2340.4	2345.9	2352.6	2330.4	2372.0	2434.7	2154.5
40°	2380.9	2394.2	2419.7	2428.6	2450.2	2461.3	2484.0	2484.6	2580.6	2683.7	2361.4
42.5°	2431.9	2454.6	2502.3	2518.4	2571.1	2604.4	2638.2	2674.3	2813.5	2946.1	2605.5
45°	2476.3	2506.2	2585.6	2635.5	2707.0	2747.5	2819.1	2894.5	3094.8	3268.4	2853.5
47.5°	2543.4	2570.0	2661.0	2749.2	2857.4	2904.0	3011.0	3123.6	3385.5	3575.7	3090.9
50°	2636.6	2652.7	2745.3	2889.0	3027.1	3087.0	3228.5	3391.0	3696.1	3879.2	3299.5
52.5°	2755.9	2762.5	2836.3	3027.7	3209.6	3283.9	3471.4	3661.2	3967.9	4142.7	3464.8
55°	2896.7	2885.7	2943.3	3174.7	3418.2	3515.3	3716.6	3934.6	4273.6	4355.7	3585.2
57.5°	3036.0	3018.8	3064.8	3353.3	3675.6	3792.6	4027.3	4216.4	4546.5	4554.8	3669.5
60°	3183.5	3170.8	3225.7	3563.0	3991.2	4129.9	4346.8	4508.8	4810.5	4693.5	3682.8
62.5°	3335.0	3314.5	3392.7	3798.7	4346.8	4472.7	4682.9	4819.4	5069.6	4745.1	3554.6
65°	3482.0	3472.5	3593.5	4078.9	4751.7	4894.9	5099.0	5191.6	5277.1	4667.4	3236.8
67.5°	3638.4	3657.3	3850.3	4452.7	5279.8	5459.6	5679.8	5592.7	5336.4	4299.6	2725.9
70°	3876.9	3889.1	4187.6	4942.6	5960.5	6177.4	6283.9	5735.3	5050.2	3601.2	2049.1
72.5°	3979.6	4033.4	4488.8	5456.8	6733.7	6866.3	6486.9	5417.4	4207.0	2446.3	1076.7
73°	3956.8	4021.2	4502.7	5535.0	6794.2	6933.4	6443.6	5253.8	3910.8	2106.8	923.1
75°	3673.4	3752.7	4322.4	5469.5	6676.6	6593.4	5748.0	4477.7	2642.7	958.0	420.5
77.5°	2898.4	2921.2	3424.8	4416.7	5257.6	5103.4	4301.9	2798.6	1079.5	356.1	238.5
80°	1453.9	1537.7	1930.4	2530.1	3515.8	3465.3	2715.4	1323.6	449.9	209.1	158.1
82.5°	699.5	758.9	940.3	1233.7	1942.6	1896.6	1344.6	723.4	285.7	122.0	93.2
85°	450.4	494.8	598.5	588.6	798.8	762.7	604.1	547.5	169.2	63.8	64.9
87.5°	297.3	325.6	390.5	312.3	290.7	262.9	266.8	308.4	33.3	24.4	8.9
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°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7
2.5°	1706.9	1699.7	1675.8	1652.5	1630.3	1609.2	1595.4	1577.1	1564.9	1568.2	1573.2
5°	1664.2	1648.1	1605.9	1564.9	1526.0	1480.0	1442.8	1412.9	1390.1	1381.8	1380.1
7.5°	1619.2	1592.0	1531.6	1461.1	1395.1	1338.0	1272.0	1239.2	1201.0	1187.7	1183.2
10°	1592.0	1555.4	1470.6	1372.4	1273.1	1178.2	1106.7	1048.4	995.7	985.7	980.7
12.5°	1584.3	1536.0	1421.7	1295.3	1163.2	1046.8	940.8	864.3	813.2	801.6	784.4
15°	1579.8	1519.9	1376.3	1217.6	1050.1	908.1	796.6	707.3	660.7	629.6	630.2
17.5°	1576.0	1501.6	1325.2	1132.7	952.5	788.8	665.7	585.2	542.5	525.9	524.2
20°	1570.4	1480.0	1266.4	1043.4	841.0	680.1	568.6	508.7	479.8	466.0	465.4
22.5°	1568.2	1458.9	1208.7	952.5	742.2	596.3	504.2	462.1	443.8	434.3	434.3
25°	1573.7	1443.9	1148.3	865.9	654.6	524.8	459.9	431.0	420.5	415.5	413.8
27.5°	1590.9	1437.3	1088.4	779.4	574.1	475.9	429.9	409.9	402.2	398.3	398.8
30°	1623.7	1436.7	1029.6	694.0	514.2	438.8	406.1	392.2	386.1	383.9	383.3
32.5°	1676.4	1448.9	971.9	623.5	463.7	407.7	383.9	373.9	371.1	369.4	368.9
35°	1765.7	1483.3	914.7	559.2	424.9	380.0	362.8	357.8	353.9	355.6	356.1
37.5°	1886.0	1542.7	860.4	508.7	395.5	359.5	345.0	340.6	338.4	340.0	341.7
40°	2047.5	1628.1	814.9	468.2	374.4	342.3	329.5	325.6	323.4	326.2	326.7
42.5°	2225.5	1726.8	777.2	436.6	357.2	327.8	315.6	311.2	309.5	311.2	311.8
45°	2408.6	1841.7	757.7	413.8	342.8	317.3	304.5	299.5	295.7	294.6	296.2
47.5°	2588.9	1941.5	757.2	400.0	331.2	307.9	294.0	288.5	283.5	280.7	280.1
50°	2735.9	2020.8	770.5	393.9	321.2	297.3	283.5	277.9	271.3	265.7	266.8
52.5°	2846.8	2072.4	776.6	391.1	315.6	286.2	272.4	267.4	259.6	252.4	252.4
55°	2918.4	2084.6	761.6	388.3	311.2	274.6	259.6	255.2	247.4	240.2	240.2
57.5°	2942.8	2046.9	707.8	381.6	306.8	264.6	246.9	243.0	236.9	229.7	228.5
60°	2886.2	1919.3	613.5	361.7	297.9	254.1	233.0	231.3	229.1	223.0	222.4
62.5°	2668.2	1648.6	510.9	335.6	282.9	243.0	220.2	223.0	224.7	221.3	220.8
65°	2305.4	1338.5	436.6	299.5	262.9	227.4	206.4	213.6	218.0	218.0	216.9
67.5°	1870.0	1027.9	367.8	268.5	238.0	206.4	190.8	196.4	199.7	198.6	201.4
70°	1329.1	696.2	299.5	233.0	206.4	182.5	170.9	170.9	168.6	167.5	167.5
72.5°	644.6	397.7	243.0	194.7	175.8	155.9	146.4	142.6	138.1	137.6	134.8
73°	538.6	356.7	231.9	187.5	168.6	152.0	141.5	135.4	132.6	130.4	129.8
75°	327.8	270.7	193.6	158.1	143.7	130.9	121.5	115.9	113.2	111.5	110.9
77.5°	215.8	201.9	150.3	120.9	109.8	102.1	98.2	92.6	91.0	88.8	88.8
80°	160.9	154.2	107.6	85.4	78.8	72.1	71.0	69.9	65.5	62.7	61.6
82.5°	103.7	109.8	73.2	57.1	49.9	44.4	44.9	46.6	42.2	38.3	37.2
85°	73.8	79.3	44.4	26.1	21.1	18.3	20.5	18.3	18.9	15.0	12.2
87.5°	12.2	21.1	7.8	3.3	1.7	1.1	0.0	0.0	0.0	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)