

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: P527849

Luminaire Tested: **GALN-SA2D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6746 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

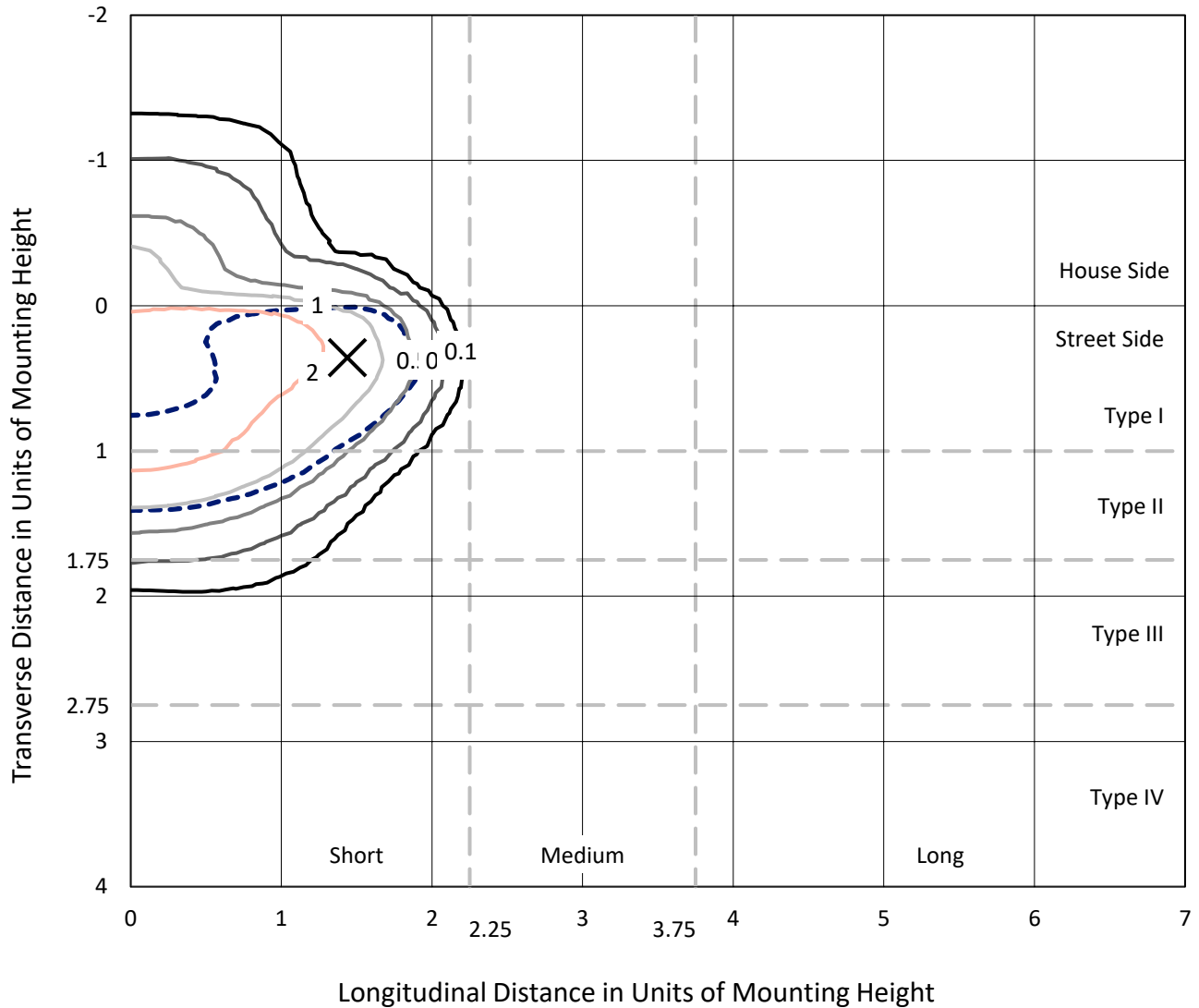
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

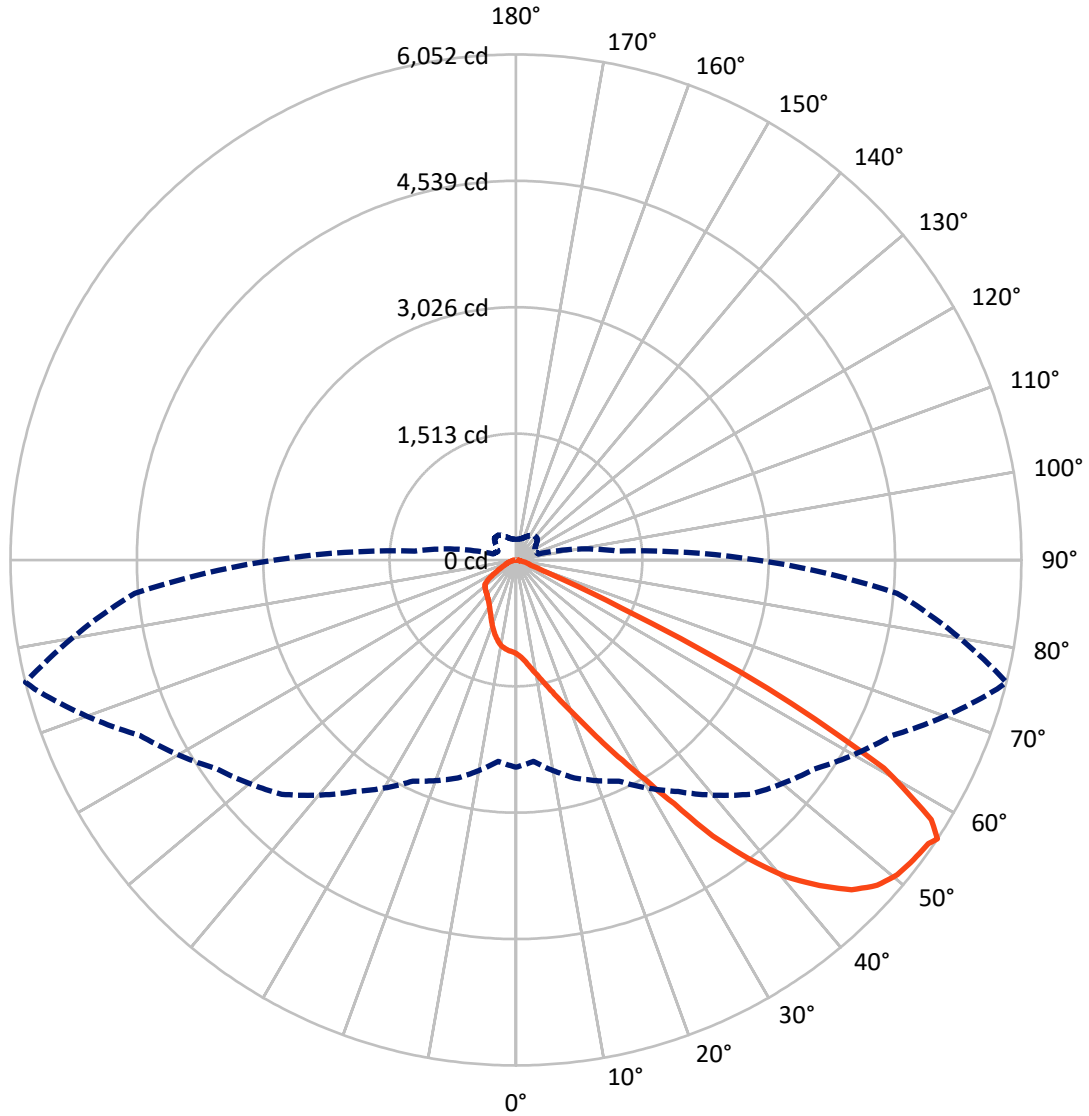
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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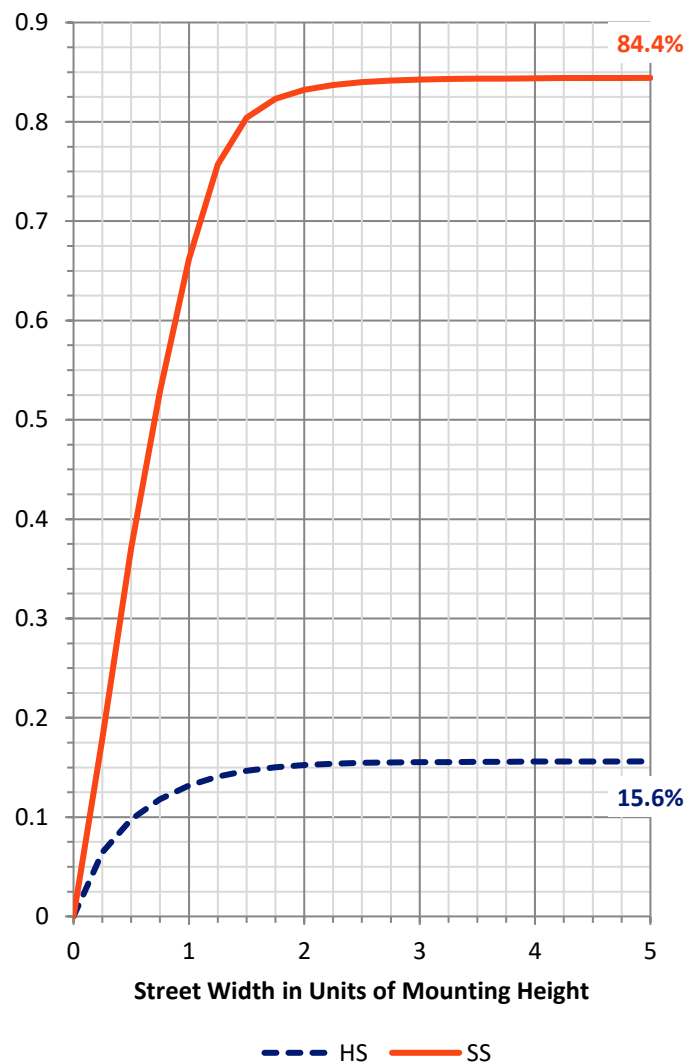
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.8	0.0	1059.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5686.2	0.0	5686.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	6746.0	0.0	6746.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.7
10°-20°	363.4	5.4
20°-30°	658.9	9.8
30°-40°	1136.4	16.8
40°-50°	1846.1	27.4
50°-60°	1945.8	28.8
60°-70°	594.5	8.8
70°-80°	76.2	1.1
80°-90°	11.6	0.2
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°	6746.0	100.0
0°-180°	6746.0	100.0

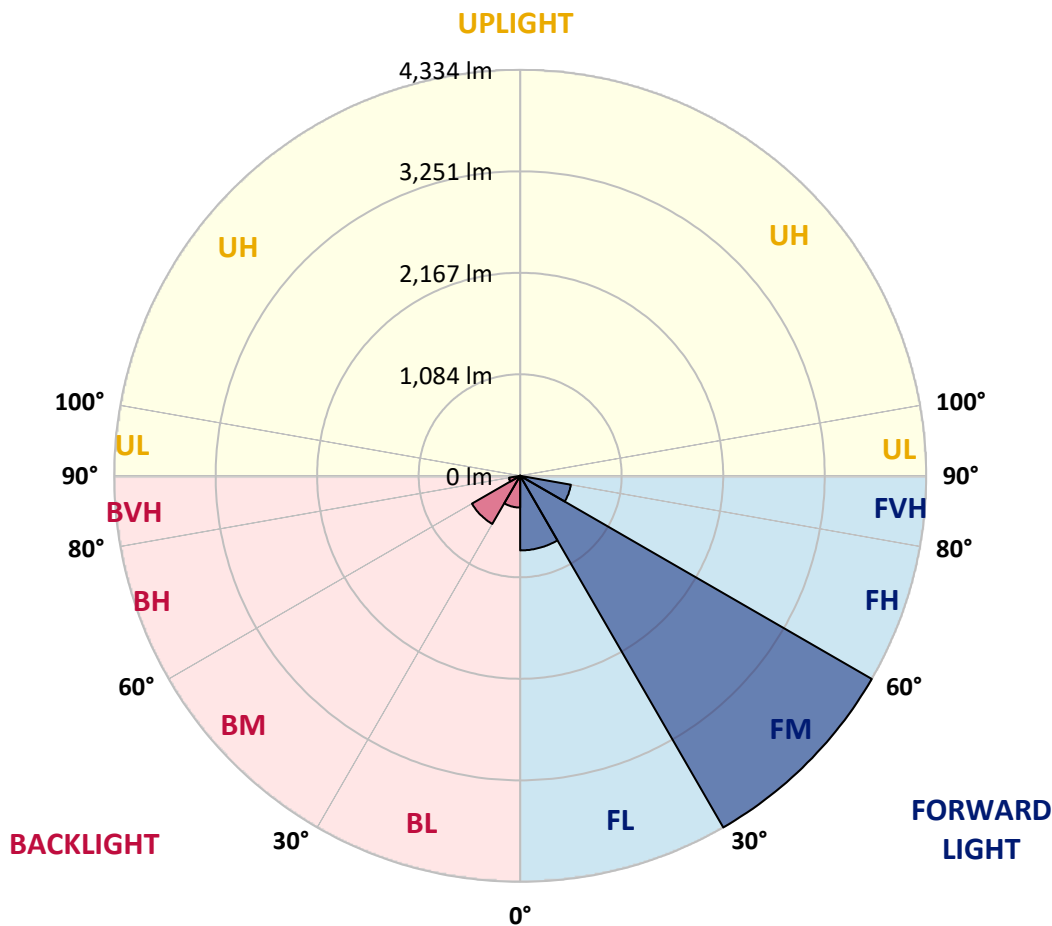


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.4	11.8			
FM (30°-60°)	4334.3	64.2			
FH (60°-80°)	549.8	8.2			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	339.0	5.0	B1/500		
BM (30°-60°)	593.9	8.8	B1/1000		
BH (60°-80°)	120.9	1.8	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9
2.5°	1293.2	1263.4	1264.6	1262.2	1258.4	1244.7	1203.7	1197.5	1170.1	1162.7	1137.8
5°	1448.7	1422.6	1437.5	1415.1	1394.0	1381.5	1314.4	1283.3	1239.8	1223.6	1188.8
7.5°	1545.7	1533.2	1528.3	1529.5	1509.6	1478.5	1448.7	1380.3	1321.8	1309.4	1236.0
10°	1592.9	1585.5	1592.9	1589.2	1597.9	1601.6	1549.4	1508.4	1422.6	1401.4	1287.0
12.5°	1604.1	1619.0	1625.3	1641.4	1662.6	1698.6	1694.9	1638.9	1524.5	1510.9	1365.4
15°	1631.5	1643.9	1637.7	1663.8	1703.6	1764.5	1796.9	1788.2	1665.0	1640.2	1456.1
17.5°	1656.3	1634.0	1655.1	1707.3	1747.1	1840.4	1918.7	1954.8	1818.0	1789.4	1539.5
20°	1689.9	1683.7	1680.0	1706.1	1777.0	1901.3	2056.8	2122.7	1989.6	1959.8	1658.8
22.5°	1791.9	1793.1	1790.6	1752.1	1803.1	1943.6	2177.4	2340.3	2194.8	2169.9	1794.4
25°	1926.2	1910.0	1897.6	1866.5	1860.3	1982.1	2299.2	2606.4	2441.0	2423.6	1941.1
27.5°	2067.9	2067.9	2030.6	2002.0	1962.2	2077.9	2411.1	2865.0	2738.2	2714.6	2069.2
30°	2222.1	2230.8	2225.9	2164.9	2140.1	2182.3	2525.6	3195.8	3078.9	3049.1	2280.6
32.5°	2449.7	2431.0	2452.2	2401.2	2327.8	2365.1	2705.9	3491.8	3521.6	3479.3	2557.9
35°	2750.6	2739.4	2725.8	2642.4	2555.4	2585.2	2960.8	3856.1	4077.4	4056.3	2837.7
37.5°	3020.5	3014.2	3003.1	2945.9	2845.1	2881.2	3250.5	4235.4	4619.6	4550.0	3233.1
40°	3304.0	3337.6	3301.5	3250.5	3158.5	3238.1	3591.2	4460.4	5076.0	4991.4	3535.3
42.5°	3688.2	3662.1	3678.3	3585.0	3535.3	3622.3	3933.2	4685.5	5430.4	5329.6	3856.1
45°	4097.3	4098.6	4055.1	4025.2	3895.9	3990.4	4143.3	4809.9	5712.6	5634.3	4098.6
47.5°	4359.7	4358.5	4405.7	4453.0	4319.9	4226.7	4286.3	4928.0	5858.1	5822.1	4186.9
50°	4318.7	4331.1	4392.0	4568.6	4638.3	4512.7	4420.6	4893.2	5924.0	5920.3	4262.7
52.5°	3756.6	3797.7	3899.6	4154.5	4505.2	4660.6	4561.2	4957.8	5956.4	5962.6	4375.9
55°	2860.1	2882.4	3076.4	3386.1	3774.0	4306.2	4505.2	5008.8	5981.2	5992.4	4512.7
56°	2480.8	2421.1	2700.9	2921.0	3384.8	3966.8	4363.4	4969.0	5966.3	6052.1	4581.1
57.5°	1872.7	1832.9	2059.2	2334.1	2780.5	3394.8	3923.2	4781.3	5865.6	5864.4	4482.8
60°	1139.0	1099.3	1273.3	1435.0	1684.9	2090.3	2651.1	3807.6	4959.1	5063.5	3629.8
62.5°	677.7	702.6	874.2	972.4	1053.2	1095.5	1371.6	2263.2	3309.0	3383.6	2252.0
65°	451.4	460.1	589.4	751.1	787.1	626.7	558.3	916.5	1435.0	1389.0	928.9
67.5°	278.5	298.4	395.4	564.5	625.5	457.6	264.9	342.0	395.4	395.4	268.6
70°	169.1	179.1	263.6	384.2	429.0	294.7	192.7	192.7	190.3	186.5	160.4
72.5°	80.8	87.0	134.3	197.7	201.4	155.4	149.2	162.9	159.2	157.9	133.1
75°	34.8	37.3	47.3	62.2	70.9	65.9	90.8	116.9	120.6	116.9	95.7
77.5°	11.2	12.4	17.4	22.4	23.6	28.6	38.5	48.5	56.0	52.2	47.3
80°	1.2	2.5	5.0	11.2	17.4	22.4	28.6	32.3	36.1	36.1	33.6
82.5°	1.2	1.2	5.0	9.9	16.2	21.1	27.4	31.1	36.1	37.3	34.8
85°	0.0	1.2	3.7	8.7	13.7	13.7	12.4	12.4	8.7	8.7	8.7
87.5°	0.0	0.0	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9
2.5°	1132.8	1130.3	1096.8	1075.6	1064.4	1042.1	1028.4	1018.4	1011.0	1002.3	1003.5
5°	1147.8	1139.0	1083.1	1044.5	998.5	973.7	952.5	935.1	923.9	921.4	916.5
7.5°	1190.0	1144.0	1059.5	989.8	931.4	906.5	887.9	876.7	881.6	870.5	879.2
10°	1222.4	1154.0	1030.9	930.1	871.7	853.0	843.1	851.8	864.2	859.3	853.0
12.5°	1262.2	1163.9	984.9	872.9	818.2	804.5	822.0	838.1	863.0	872.9	860.5
15°	1306.9	1175.1	926.4	807.0	772.2	783.4	813.2	841.9	866.7	879.2	886.6
17.5°	1361.6	1171.4	869.2	754.8	728.7	761.0	797.1	823.2	860.5	879.2	874.2
20°	1412.6	1158.9	805.8	702.6	703.8	733.7	763.5	805.8	825.7	850.6	841.9
22.5°	1461.1	1136.6	739.9	666.5	666.5	712.5	727.4	754.8	772.2	784.6	783.4
25°	1529.5	1094.3	685.2	631.7	646.6	676.5	688.9	697.6	690.1	700.1	701.3
27.5°	1578.0	1050.8	640.4	600.6	628.0	650.4	646.6	641.6	624.2	610.6	619.3
30°	1630.2	999.8	601.9	579.5	594.4	614.3	599.4	584.4	557.1	534.7	535.9
32.5°	1704.8	976.1	568.3	554.6	574.5	577.0	560.8	538.4	511.1	489.9	488.7
35°	1844.1	961.2	539.7	538.4	542.2	543.4	527.2	499.9	488.7	471.3	477.5
37.5°	1983.4	953.8	519.8	514.8	513.6	514.8	496.2	470.0	491.2	489.9	492.4
40°	2161.2	987.3	491.2	485.0	486.2	486.2	462.6	455.1	492.4	496.2	497.4
42.5°	2341.5	1029.6	472.5	452.6	457.6	457.6	445.2	436.5	462.6	437.7	434.0
45°	2498.2	1091.8	452.6	420.3	432.7	439.0	435.2	420.3	404.1	361.9	361.9
47.5°	2549.2	1146.5	429.0	389.2	399.2	426.5	415.3	384.2	355.6	320.8	318.3
50°	2638.7	1206.2	410.4	353.2	374.3	407.9	396.7	365.6	333.3	308.4	309.6
52.5°	2730.7	1274.6	375.5	310.9	337.0	392.9	392.9	358.1	308.4	291.0	288.5
55°	2868.8	1272.1	313.4	254.9	300.9	370.6	376.8	320.8	276.1	262.4	262.4
56°	2888.7	1214.9	282.3	238.8	284.8	364.3	365.6	310.9	263.6	248.7	248.7
57.5°	2739.4	1096.8	247.5	218.9	264.9	353.2	354.4	302.2	253.7	232.5	230.0
60°	2107.7	742.4	206.4	195.2	240.0	318.3	324.6	274.8	222.6	206.4	205.2
62.5°	1190.0	411.6	181.6	176.6	206.4	271.1	289.7	240.0	189.0	180.3	182.8
65°	543.4	226.3	153.0	143.0	166.6	208.9	233.8	197.7	155.4	145.5	145.5
67.5°	199.0	154.2	130.6	113.2	116.9	135.5	151.7	128.1	103.2	88.3	92.0
70°	141.8	129.3	114.4	98.2	90.8	88.3	87.0	72.1	51.0	39.8	42.3
72.5°	114.4	106.9	95.7	83.3	70.9	59.7	51.0	37.3	23.6	16.2	14.9
75°	82.1	78.3	69.6	59.7	49.7	42.3	34.8	23.6	12.4	6.2	6.2
77.5°	42.3	42.3	41.0	37.3	31.1	24.9	19.9	13.7	7.5	2.5	2.5
80°	32.3	34.8	36.1	32.3	28.6	22.4	16.2	9.9	5.0	1.2	1.2
82.5°	31.1	36.1	38.5	33.6	28.6	21.1	16.2	9.9	5.0	1.2	1.2
85°	7.5	7.5	11.2	12.4	16.2	17.4	13.7	8.7	3.7	1.2	1.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	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)