

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: P452010

Luminaire Tested: **GALN-SA2D-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452010
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-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12259 lumens
Efficiency: N/A
Efficacy: 98.1 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

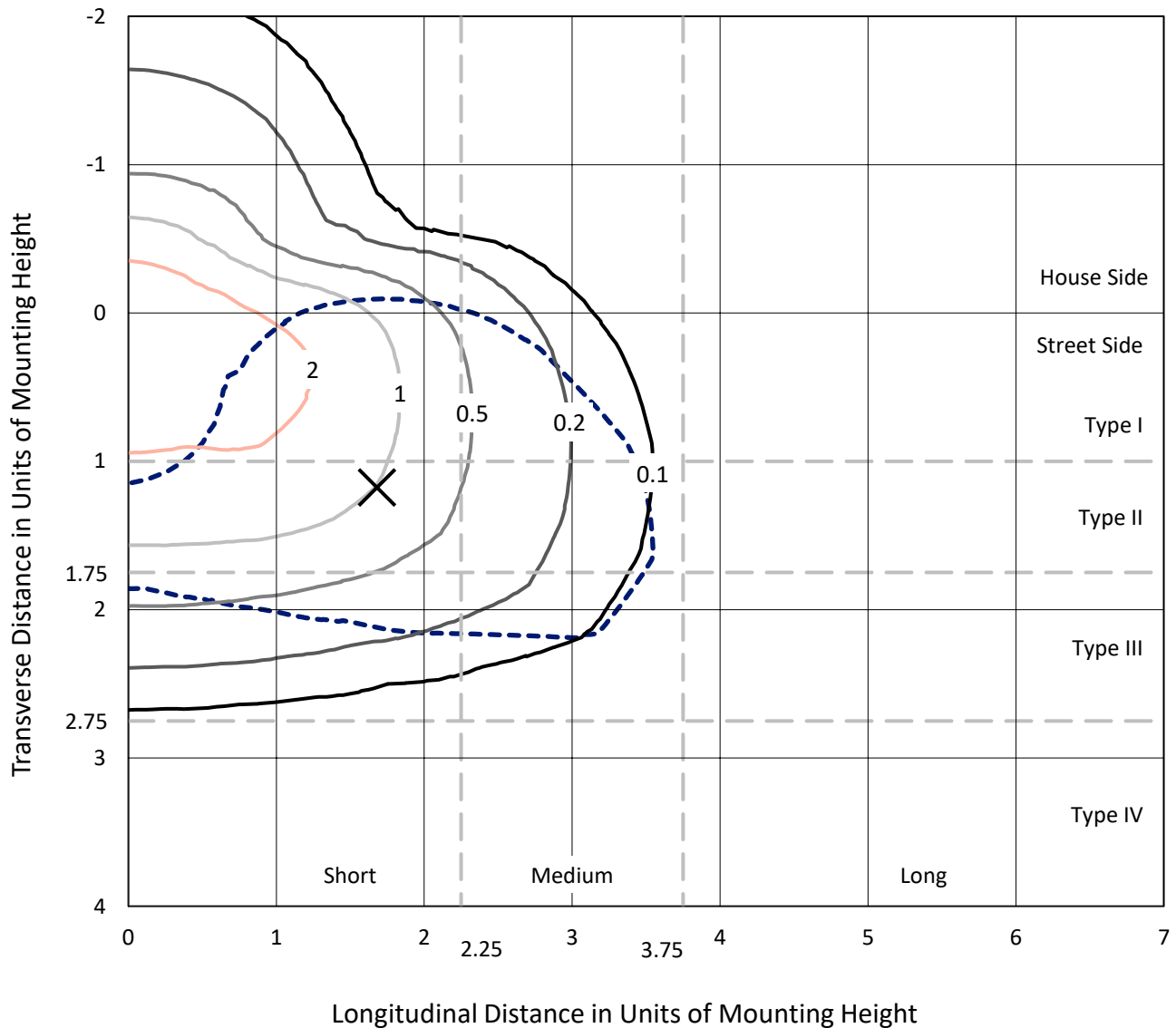


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

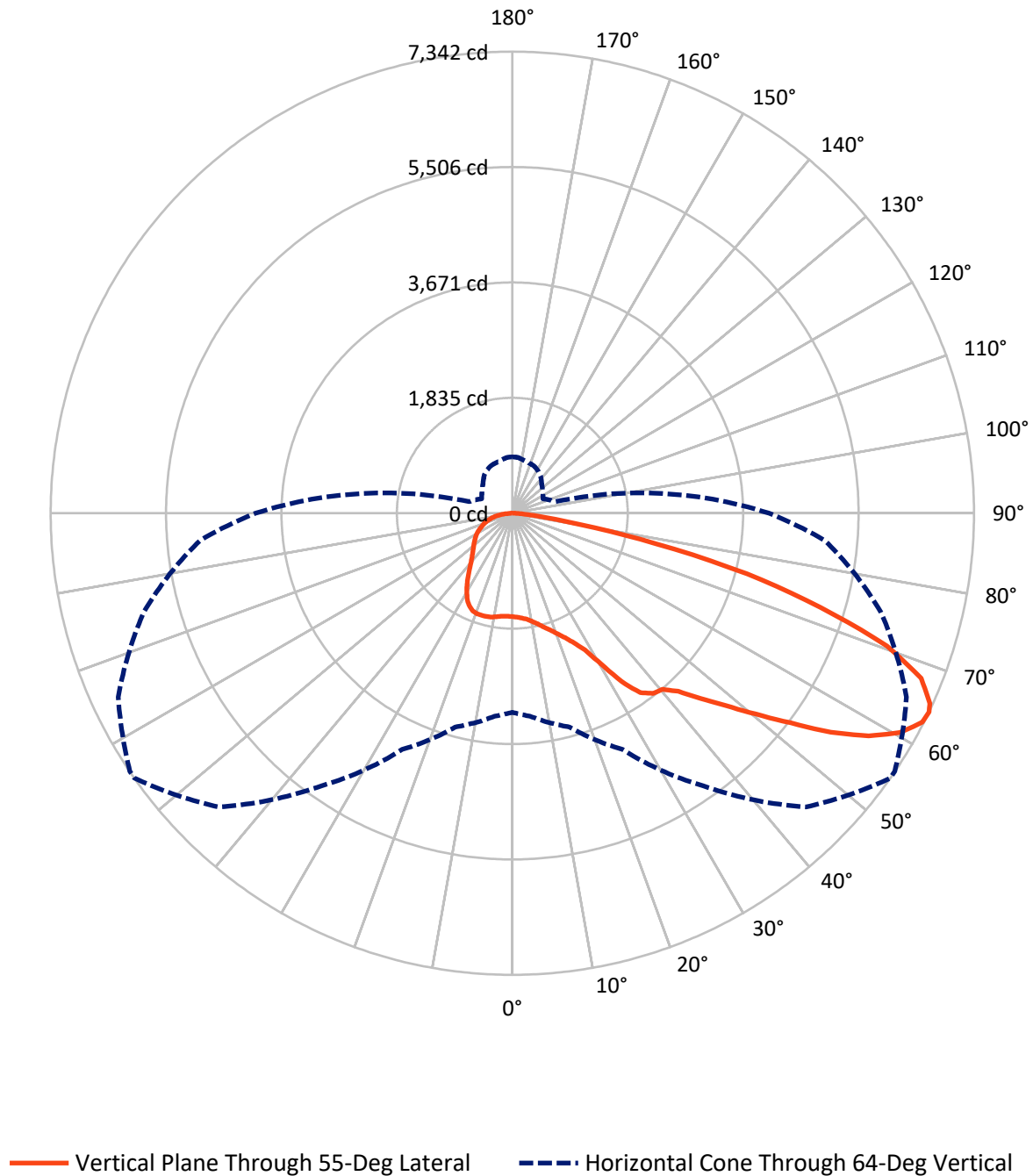


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2978.0	0.0	2978.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9281.1	0.0	9281.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	12259.0	0.0	12259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.3
10°-20°	504.8	4.1
20°-30°	898.7	7.3
30°-40°	1382.8	11.3
40°-50°	1960.2	16.0
50°-60°	2837.4	23.1
60°-70°	2936.4	24.0
70°-80°	1375.1	11.2
80°-90°	203.6	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°	12259.0	100.0
0°-180°	12259.0	100.0

Coefficient of Utilization



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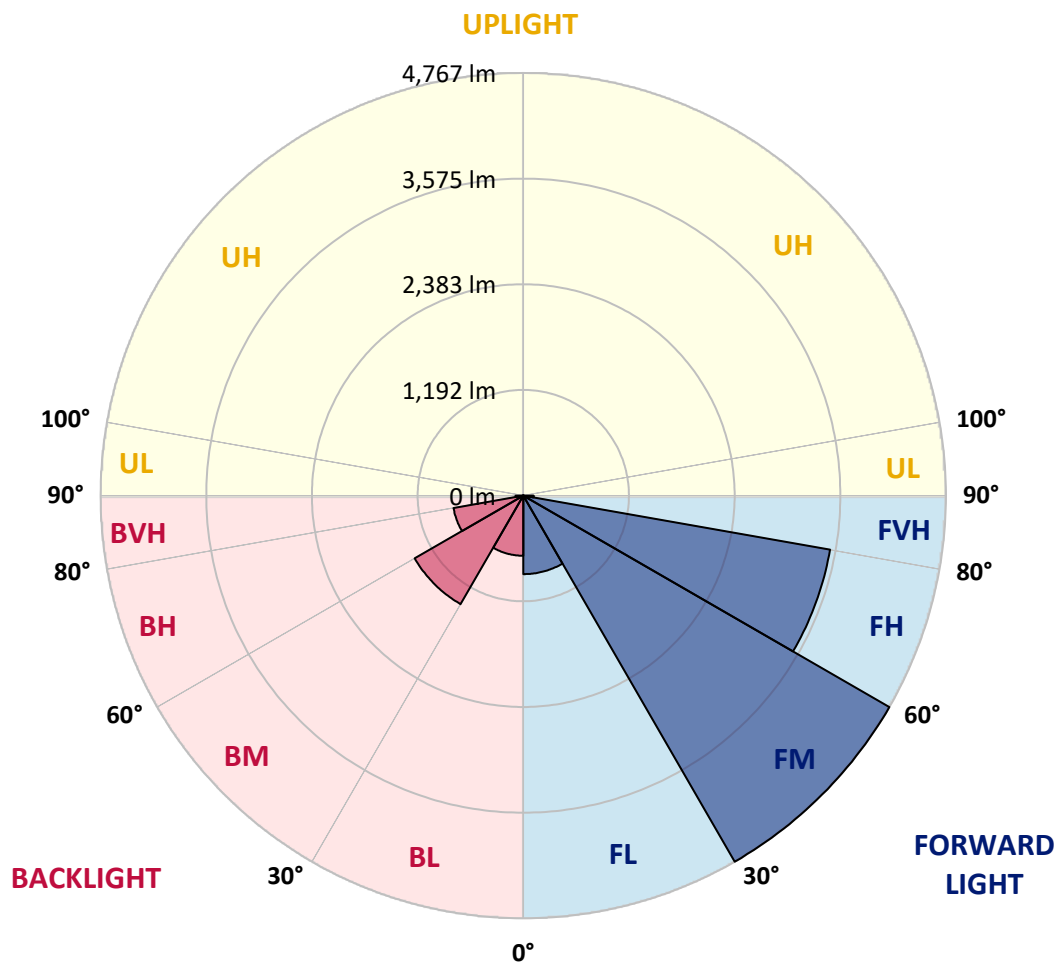
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.3	7.2			
FM	(30°-60°)	4766.6	38.9			
FH	(60°-80°)	3512.6	28.7			G2/5000
FVH	(80°-90°)	116.6	1.0			G2/225
BL	(0°-30°)	678.3	5.5	B2/1000		
BM	(30°-60°)	1413.8	11.5	B2/2500		
BH	(60°-80°)	798.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	87.0	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°	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8
2.5°	1663.2	1662.6	1664.6	1662.6	1663.9	1659.1	1657.1	1658.5	1656.4	1653.0	1646.8
5°	1683.7	1683.1	1683.7	1681.0	1682.4	1679.6	1674.9	1676.2	1672.8	1665.3	1656.4
7.5°	1718.6	1715.9	1715.9	1715.2	1712.4	1708.3	1704.9	1703.6	1700.1	1690.6	1676.9
10°	1763.7	1763.7	1764.4	1758.9	1762.3	1754.8	1751.4	1750.7	1739.1	1726.8	1707.7
12.5°	1823.1	1826.6	1824.5	1821.8	1820.4	1817.7	1806.1	1808.8	1795.8	1774.6	1751.4
15°	1896.9	1902.4	1899.0	1897.6	1894.2	1884.0	1879.2	1877.1	1860.0	1829.3	1798.5
17.5°	1994.7	1987.8	1985.1	1981.7	1967.3	1959.8	1951.6	1950.2	1935.2	1899.0	1851.2
20°	2080.1	2089.6	2084.2	2080.8	2066.4	2052.1	2045.9	2043.9	2030.9	1991.2	1914.7
22.5°	2181.9	2183.9	2186.0	2177.8	2171.0	2160.0	2149.1	2145.7	2140.9	2099.9	2006.3
25°	2290.5	2298.7	2291.9	2283.7	2275.5	2274.8	2285.1	2283.7	2281.7	2242.0	2127.9
27.5°	2467.5	2475.0	2477.1	2468.2	2436.8	2439.5	2462.7	2470.3	2501.7	2436.1	2284.4
30°	2567.3	2574.8	2591.9	2625.4	2675.3	2719.0	2775.0	2792.1	2822.2	2698.5	2470.3
32.5°	2628.8	2631.5	2662.3	2724.5	2874.1	3037.4	3189.8	3196.0	3215.1	3041.5	2640.4
35°	2725.8	2727.9	2752.5	2820.8	2996.4	3268.4	3504.1	3511.7	3495.9	3148.1	2719.7
37.5°	2845.4	2850.9	2866.6	2923.3	3133.1	3461.8	3634.7	3629.2	3489.8	3232.9	2859.8
40°	3019.7	3019.7	3001.2	3077.7	3277.3	3572.5	3680.4	3670.9	3634.0	3478.2	3073.0
42.5°	3173.4	3170.7	3214.4	3266.3	3457.7	3743.3	3872.5	3888.2	3949.0	3786.4	3315.5
45°	3373.6	3385.9	3410.5	3504.8	3764.5	4035.1	4201.8	4216.9	4303.0	4149.2	3599.1
47.5°	3575.9	3580.0	3657.2	3782.9	4144.4	4430.7	4567.4	4592.0	4670.6	4573.6	3904.6
50°	3719.4	3758.3	3882.0	4080.2	4536.0	4913.2	5019.8	5049.2	5187.9	5035.5	4260.6
52.5°	3871.1	3909.4	4060.4	4362.4	4985.6	5406.5	5537.7	5557.6	5701.7	5502.9	4624.8
55°	4000.9	4036.5	4208.0	4612.5	5343.7	5910.2	6148.0	6124.7	6193.8	5863.0	4905.7
57.5°	4022.1	4050.8	4266.7	4772.4	5612.9	6342.0	6683.0	6696.7	6616.7	6132.2	5137.3
60°	3858.1	3916.9	4164.9	4755.3	5733.9	6642.7	7082.1	7091.7	6864.8	6270.3	5229.6
62.5°	3567.7	3561.5	3861.5	4480.6	5564.4	6711.0	7317.2	7306.9	6961.8	6204.0	5140.0
64°	3166.6	3240.4	3520.5	4143.1	5291.1	6605.8	7341.8	7336.3	6915.4	6066.0	4987.7
65°	2921.9	2917.8	3194.6	3867.0	5019.1	6447.3	7298.0	7290.5	6818.3	5942.3	4869.4
67.5°	2109.5	2119.0	2392.4	2984.1	4080.2	5827.5	7013.1	6985.1	6435.7	5532.3	4419.8
70°	1277.8	1283.3	1497.9	1979.6	2928.8	4710.9	6321.5	6322.9	5850.0	4920.0	3761.8
72.5°	673.1	687.4	773.5	1124.1	1778.7	3305.3	5128.4	5250.1	5022.5	4199.1	2971.8
75°	374.5	376.5	437.3	554.2	907.5	1849.8	3854.7	3889.5	3976.3	3379.8	2197.6
77.5°	285.6	289.7	308.9	358.1	494.1	857.6	2332.9	2507.8	2802.4	2382.8	1253.9
80°	231.7	235.8	252.2	281.5	328.7	406.6	1083.8	1178.1	1499.9	1057.8	489.3
82.5°	180.4	177.7	198.9	218.0	239.2	240.5	444.9	492.0	610.9	455.1	211.8
85°	133.9	133.9	151.0	146.9	154.4	140.8	196.1	216.6	244.6	193.4	98.4
87.5°	53.3	58.8	99.1	88.8	69.0	55.4	72.4	76.5	84.7	75.9	41.0
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°	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8	1644.8
2.5°	1647.5	1649.6	1644.8	1641.4	1640.0	1638.0	1635.9	1636.6	1639.3	1642.1	1641.4
5°	1655.7	1656.4	1648.2	1644.1	1641.4	1638.6	1638.6	1640.7	1646.2	1650.3	1650.3
7.5°	1676.2	1676.2	1664.6	1657.1	1653.0	1648.2	1646.8	1647.5	1651.6	1657.1	1657.8
10°	1708.3	1705.6	1690.6	1679.0	1671.4	1659.8	1649.6	1644.1	1646.2	1649.6	1649.6
12.5°	1747.3	1739.8	1720.6	1704.9	1686.5	1664.6	1643.4	1632.5	1631.8	1635.2	1633.9
15°	1789.0	1780.8	1754.1	1725.4	1693.3	1661.2	1635.9	1620.2	1607.9	1604.5	1612.0
17.5°	1837.5	1820.4	1783.5	1743.9	1696.0	1654.4	1614.7	1582.6	1560.7	1554.6	1556.6
20°	1896.3	1873.7	1823.8	1761.6	1694.0	1629.8	1568.3	1525.2	1489.7	1478.7	1480.1
22.5°	1977.6	1938.6	1865.5	1770.5	1676.9	1583.3	1497.9	1441.8	1398.8	1381.7	1392.0
25°	2069.8	2027.5	1905.1	1768.5	1632.5	1508.8	1414.5	1341.4	1302.4	1277.2	1282.6
27.5°	2196.9	2121.8	1947.5	1750.0	1568.9	1417.9	1308.6	1239.6	1204.0	1191.1	1197.2
30°	2359.6	2244.1	1993.3	1700.1	1468.5	1303.1	1202.0	1156.9	1135.7	1119.3	1124.8
32.5°	2477.1	2330.2	2003.5	1616.1	1359.8	1198.6	1129.6	1096.1	1072.8	1057.1	1060.5
35°	2561.1	2403.3	1998.8	1512.9	1246.4	1112.5	1072.2	1044.8	1007.2	973.1	966.9
37.5°	2673.9	2494.9	1963.9	1400.2	1134.3	1054.4	1025.7	975.1	921.1	875.4	873.3
40°	2846.8	2602.1	1889.4	1267.6	1038.7	1011.3	976.5	910.9	852.8	815.9	813.2
42.5°	3025.1	2701.2	1788.3	1128.2	960.1	966.2	923.9	859.0	823.4	799.5	796.8
45°	3243.1	2808.5	1679.0	1007.2	902.0	923.9	878.1	840.5	819.3	803.6	799.5
47.5°	3478.9	2918.5	1556.0	898.6	852.8	884.9	859.0	841.9	830.3	819.3	814.5
50°	3733.1	3041.5	1440.5	811.1	808.4	844.6	856.9	850.8	843.9	840.5	836.4
52.5°	4011.9	3167.3	1343.4	749.6	769.4	815.9	857.6	862.4	862.4	860.3	857.6
55°	4200.5	3254.7	1245.0	699.7	729.8	792.7	856.2	874.7	881.5	878.8	876.0
57.5°	4339.9	3302.6	1121.4	656.7	696.3	770.1	848.7	876.0	882.9	886.3	884.9
60°	4368.6	3258.1	959.4	611.6	660.1	737.3	821.4	855.5	864.4	885.6	887.7
62.5°	4239.4	3121.5	798.1	567.2	615.7	687.4	784.5	832.3	850.1	882.9	886.3
64°	4080.9	2968.4	708.6	539.2	587.0	659.4	766.0	826.2	849.4	893.1	895.9
65°	3964.7	2857.0	652.6	521.4	568.5	641.0	755.8	828.2	855.5	908.8	912.9
67.5°	3536.9	2473.7	539.8	479.7	524.8	609.5	757.8	845.3	854.2	915.0	914.3
70°	2926.7	1969.4	452.4	441.4	482.4	584.3	749.6	818.0	818.6	859.0	849.4
72.5°	2191.5	1455.5	392.2	401.8	435.3	524.1	707.9	781.1	769.4	774.9	765.3
75°	1505.4	962.8	337.6	359.4	386.1	463.3	649.2	709.3	690.9	684.0	677.2
77.5°	803.6	532.3	280.9	317.8	335.5	400.4	566.5	624.6	605.4	578.8	569.9
80°	325.3	250.8	226.2	263.1	273.3	322.5	471.5	507.7	493.4	446.9	431.9
82.5°	163.3	150.3	177.7	207.1	207.7	230.3	350.6	384.7	352.6	295.9	282.9
85°	85.4	88.2	122.3	145.6	128.5	124.4	210.5	233.0	213.9	185.9	167.4
87.5°	30.8	35.5	64.2	63.6	45.1	23.9	46.5	22.6	12.3	7.5	9.6
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)