

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: P451531

Luminaire Tested: **GALN-SA2B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9076 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 82
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

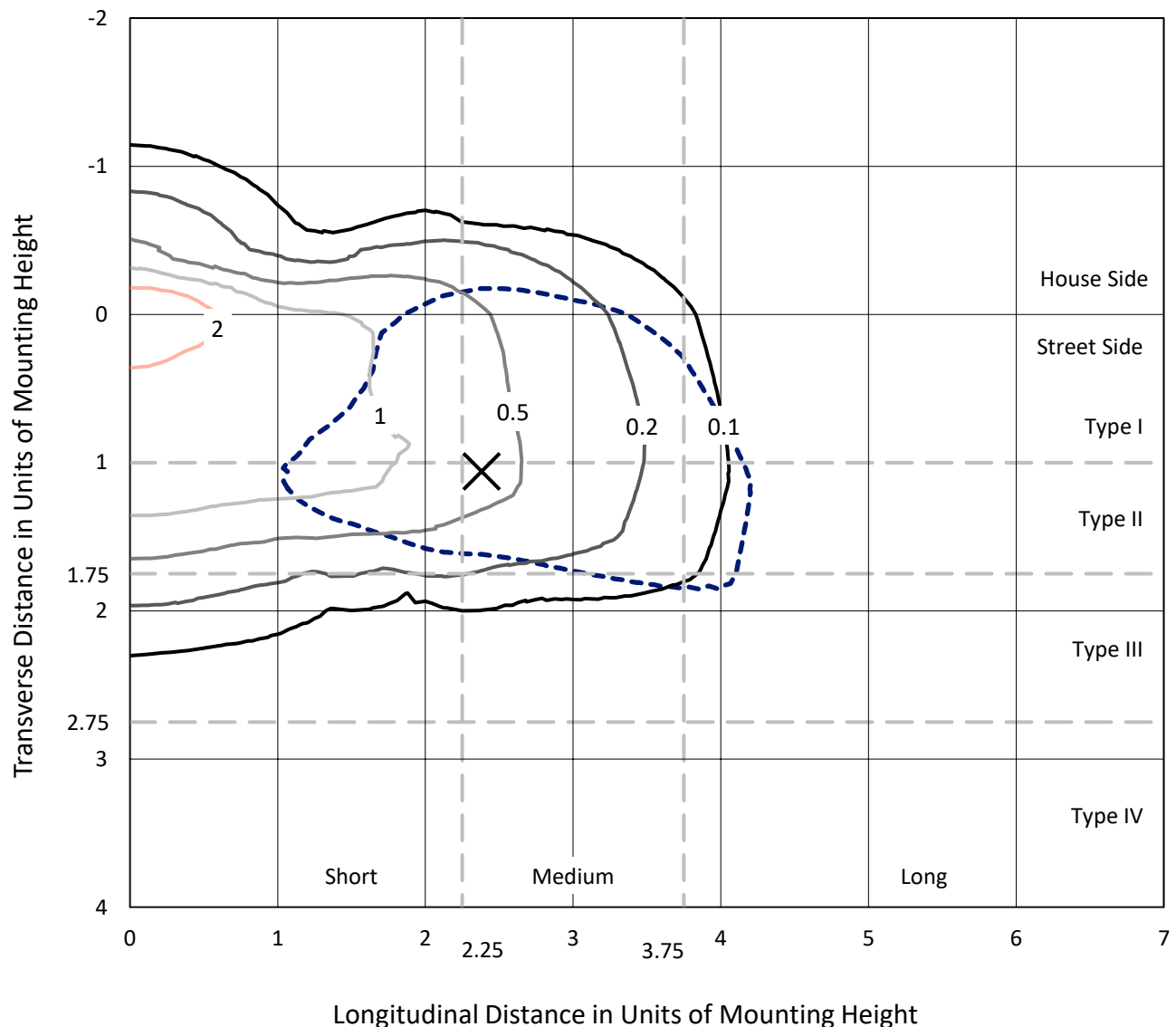


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

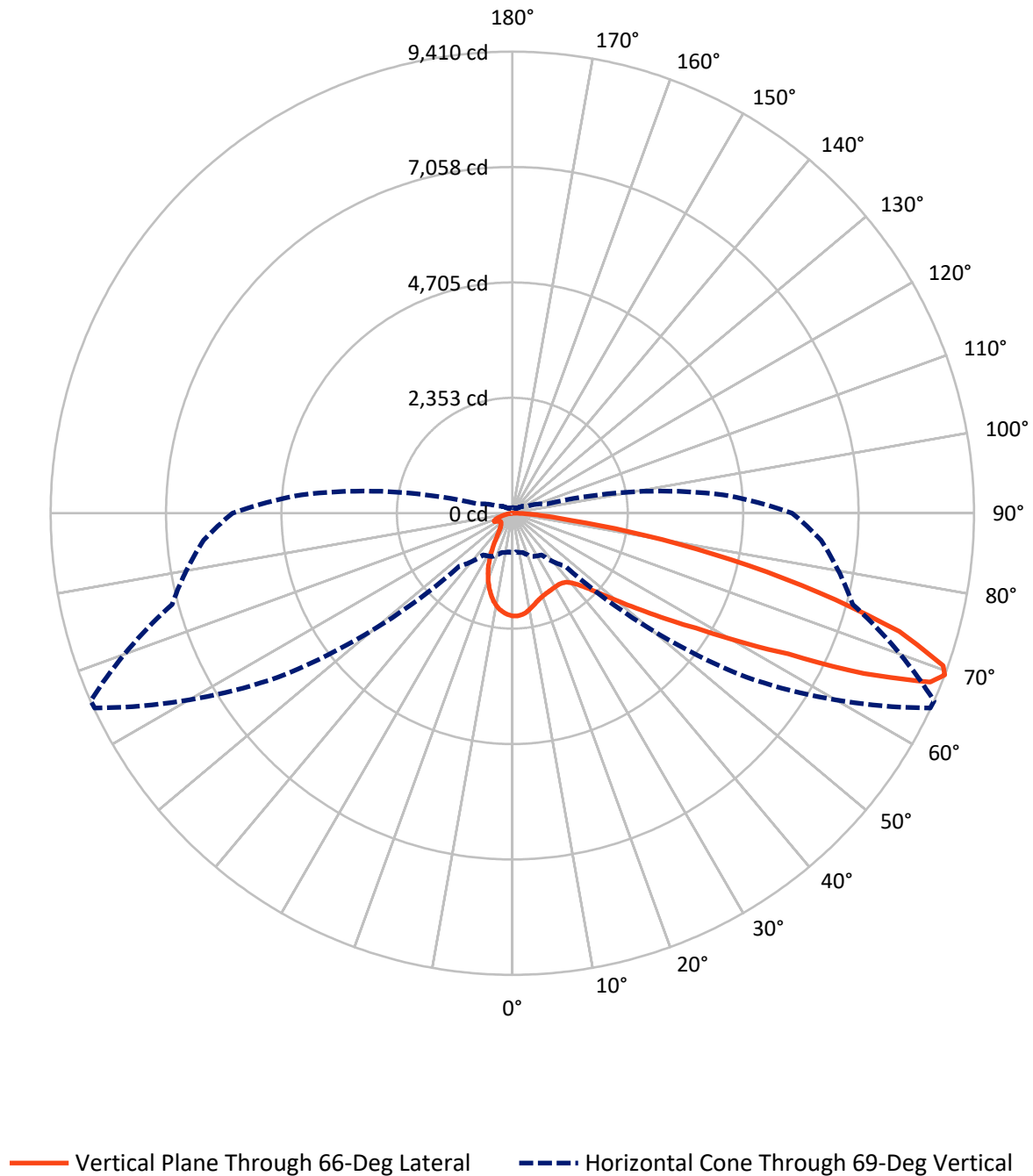


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.9	0.0	1706.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7369.1	0.0	7369.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	9076.0	0.0	9076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	2.0
10°-20°	431.7	4.8
20°-30°	587.7	6.5
30°-40°	789.8	8.7
40°-50°	1179.2	13.0
50°-60°	1875.8	20.7
60°-70°	2307.1	25.4
70°-80°	1501.1	16.5
80°-90°	221.7	2.4
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°	9076.0	100.0
0°-180°	9076.0	100.0

Coefficient of Utilization



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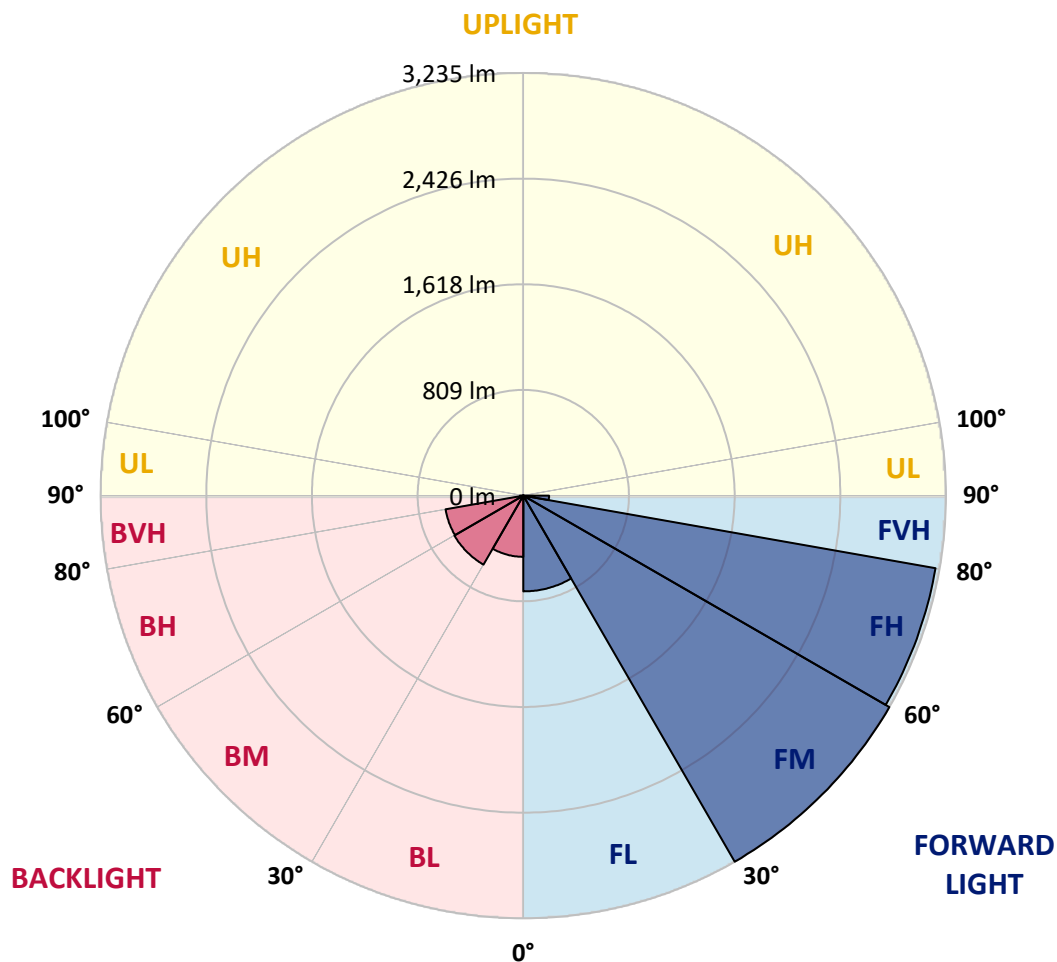
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.9	8.1			
FM	(30°-60°)	3235.3	35.6			
FH	(60°-80°)	3203.9	35.3			G2/5000
FVH	(80°-90°)	197.1	2.2			G2/225
BL	(0°-30°)	468.5	5.2	B1/500		
BM	(30°-60°)	609.4	6.7	B1/1000		
BH	(60°-80°)	604.3	6.7	B2/1000		G2/1000
BVH	(80°-90°)	24.6	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9
2.5°	2022.5	2030.6	2039.6	2049.7	2068.8	2079.3	2086.9	2095.4	2096.4	2100.9	2097.4
5°	1873.2	1882.8	1896.4	1915.5	1944.1	1988.8	2035.1	2072.8	2077.3	2098.4	2104.4
7.5°	1748.6	1754.1	1765.2	1795.8	1836.6	1886.3	1953.7	2030.1	2041.1	2091.4	2109.0
10°	1647.1	1652.6	1665.7	1697.3	1737.5	1799.9	1873.7	1974.3	1983.3	2069.8	2110.0
12.5°	1571.2	1576.2	1590.3	1621.4	1667.7	1726.0	1807.4	1914.0	1927.0	2041.1	2100.4
15°	1513.4	1522.9	1534.5	1560.1	1608.9	1665.2	1744.1	1858.7	1869.2	2011.0	2093.9
17.5°	1488.7	1493.3	1501.3	1524.9	1560.6	1615.9	1695.3	1815.4	1828.0	1989.8	2092.4
20°	1489.7	1494.3	1495.8	1508.8	1534.5	1582.2	1660.6	1781.3	1796.3	1971.3	2094.9
22.5°	1523.9	1524.4	1518.9	1514.4	1524.4	1564.1	1636.0	1755.6	1773.2	1963.2	2096.9
25°	1576.7	1585.7	1577.7	1556.6	1538.0	1557.1	1626.5	1741.6	1758.1	1951.7	2094.4
27.5°	1662.1	1663.7	1657.1	1628.5	1580.2	1566.1	1622.4	1731.0	1745.1	1943.1	2081.8
30°	1776.7	1772.2	1766.2	1734.5	1658.6	1600.8	1631.0	1721.5	1736.0	1930.5	2066.7
32.5°	1892.8	1906.9	1901.4	1864.2	1765.7	1668.2	1658.6	1720.4	1732.5	1921.0	2050.2
35°	2016.0	2022.5	2048.7	2029.6	1928.5	1777.2	1710.4	1736.0	1745.6	1921.5	2038.6
37.5°	2112.5	2130.1	2191.4	2208.0	2113.0	1921.5	1794.3	1780.3	1784.3	1946.1	2043.1
40°	2229.1	2259.3	2338.2	2406.0	2343.7	2109.0	1937.1	1862.2	1867.2	2005.4	2072.8
42.5°	2376.9	2398.0	2504.0	2596.0	2585.9	2356.8	2110.0	1996.4	1998.9	2123.5	2155.7
45°	2549.8	2579.9	2699.0	2837.3	2860.9	2637.2	2359.8	2199.4	2197.9	2307.0	2310.5
47.5°	2770.9	2789.5	2907.6	3058.4	3153.9	2989.5	2662.8	2491.0	2474.9	2574.4	2545.7
50°	2974.5	3003.6	3093.1	3257.9	3495.7	3402.2	3061.4	2868.9	2831.2	2924.2	2876.0
52.5°	3059.9	3090.6	3166.0	3370.5	3788.7	3936.0	3567.6	3319.8	3256.9	3328.3	3310.7
55°	2911.6	2951.3	3021.7	3270.5	3917.4	4551.7	4250.1	3841.0	3795.2	3764.6	3769.6
57.5°	2513.1	2550.8	2645.8	2920.2	3763.6	4998.5	5224.7	4511.0	4413.0	4271.7	4295.8
60°	1912.9	1936.6	1985.8	2289.9	3307.7	5114.6	6331.4	5357.9	5295.5	4776.8	4793.9
62.5°	1358.6	1385.2	1419.4	1571.2	2421.6	4787.4	7197.9	6540.5	6317.9	5300.1	5283.5
65°	1103.2	1085.1	1126.4	1197.2	1420.9	3710.3	7393.0	8182.1	7875.5	5989.1	5759.0
67.5°	907.2	888.1	928.8	1055.0	1080.6	2153.7	6690.3	9247.6	9186.3	6738.5	6242.0
69°	803.2	793.1	828.8	972.6	1037.4	1529.5	5828.3	9395.9	9410.4	7180.3	6316.4
70°	723.8	727.8	762.5	930.8	1017.8	1261.1	4981.4	9191.3	9314.9	7401.0	6235.9
72.5°	532.8	541.3	589.6	771.0	999.2	1070.1	2964.4	8028.3	8246.9	7414.1	5704.7
75°	372.4	368.4	411.1	580.5	943.9	1060.5	1741.1	6208.8	6456.6	6408.3	4793.4
77.5°	243.8	250.3	284.5	410.1	794.1	1052.5	1134.9	4404.9	4565.7	4285.8	2835.2
80°	171.9	171.4	190.5	280.0	589.1	1011.3	929.3	2776.4	2735.7	1684.3	840.9
82.5°	98.5	105.5	127.7	197.0	394.0	890.1	854.9	1327.9	1212.3	480.0	284.0
85°	54.8	57.3	75.9	119.1	230.2	670.5	746.4	604.1	570.0	200.5	122.1
87.5°	17.6	19.1	31.7	60.3	104.5	316.6	422.7	279.0	257.3	72.4	49.3
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°	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9	2095.9
2.5°	2098.9	2104.9	2088.9	2073.3	2059.2	2039.6	2022.0	2007.4	1997.4	1995.9	1990.9
5°	2106.0	2106.5	2075.8	2034.6	1994.4	1950.1	1904.4	1871.7	1841.1	1824.0	1815.4
7.5°	2111.0	2106.5	2051.2	1984.3	1906.9	1826.5	1746.1	1681.7	1632.0	1612.4	1619.9
10°	2109.0	2094.9	2014.0	1906.9	1794.3	1674.2	1558.6	1468.1	1385.2	1342.5	1343.5
12.5°	2097.9	2074.8	1958.7	1820.0	1654.6	1493.8	1316.8	1194.7	1098.7	1041.9	1024.3
15°	2088.4	2048.2	1893.8	1701.9	1496.3	1266.6	1051.0	900.2	819.8	775.0	774.5
17.5°	2078.3	2022.5	1823.0	1576.7	1314.3	1018.8	792.6	677.5	639.8	644.4	636.8
20°	2067.8	1992.4	1749.1	1437.5	1092.7	760.0	593.6	546.8	557.4	578.0	581.0
22.5°	2055.7	1960.2	1669.7	1284.2	859.5	572.0	481.5	474.5	501.6	533.8	538.3
25°	2037.1	1920.0	1569.7	1123.8	662.9	460.9	421.7	426.7	453.4	480.5	483.5
27.5°	2011.0	1870.2	1468.6	923.8	498.1	395.6	385.5	392.0	405.1	421.7	425.7
30°	1975.8	1813.9	1352.5	750.9	399.1	362.9	358.9	362.4	369.9	377.0	379.0
32.5°	1940.6	1759.7	1235.4	575.0	355.9	341.3	337.3	337.3	337.3	338.3	338.8
35°	1907.9	1708.4	1109.8	447.8	333.2	324.2	318.7	312.6	311.6	308.1	308.1
37.5°	1889.8	1661.6	976.1	375.0	316.6	310.1	302.6	292.5	287.0	287.5	286.5
40°	1893.3	1631.0	854.4	333.7	303.1	296.0	284.5	272.9	269.4	269.4	268.4
42.5°	1933.1	1620.9	737.8	312.1	290.0	282.0	267.4	256.8	254.8	254.3	255.3
45°	2024.5	1645.6	633.3	298.1	279.0	266.9	252.3	242.8	240.8	240.8	240.2
47.5°	2203.0	1725.5	558.4	289.0	270.9	255.3	240.2	230.7	227.2	226.2	226.2
50°	2480.4	1898.9	502.6	281.0	260.9	244.8	229.2	218.1	212.6	212.1	211.6
52.5°	2865.9	2169.3	481.0	274.9	249.8	233.7	216.6	206.1	199.0	197.5	196.5
55°	3316.8	2546.7	510.7	270.4	238.2	221.2	203.6	192.5	186.0	183.0	182.4
57.5°	3839.0	3000.1	623.2	264.4	227.7	207.6	190.5	179.4	172.4	168.9	167.9
60°	4307.9	3466.0	819.8	260.9	218.6	193.0	175.4	165.4	158.8	155.3	154.8
62.5°	4823.1	3910.3	1054.5	270.4	214.6	178.9	161.3	152.3	146.8	143.2	143.2
65°	5373.4	4355.2	1209.8	302.6	220.6	167.9	146.3	138.7	133.7	131.2	130.7
67.5°	5744.4	4509.0	996.7	335.7	235.7	155.8	131.7	125.7	122.6	120.1	120.1
69°	5704.2	4314.4	735.3	344.3	240.2	149.8	123.6	119.1	115.1	114.1	113.1
70°	5577.0	4092.8	616.2	338.8	236.7	144.3	118.6	113.1	109.6	108.6	108.1
72.5°	4967.3	3549.5	458.9	294.5	201.5	125.2	105.0	100.0	97.0	95.5	95.5
75°	4127.0	2901.1	358.4	234.2	157.8	105.5	90.0	85.9	83.4	82.4	81.9
77.5°	2313.0	1619.9	257.3	183.5	119.6	85.4	75.4	71.9	69.4	68.4	68.4
80°	644.4	462.9	151.3	121.1	81.4	64.8	59.8	57.3	53.8	51.3	52.8
82.5°	242.8	200.5	86.4	72.9	51.8	43.2	41.7	39.7	38.2	34.7	34.7
85°	118.1	97.5	55.3	38.7	28.6	22.6	21.6	20.6	19.6	17.1	17.6
87.5°	40.7	43.2	24.1	14.1	8.5	5.5	4.5	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

(END OF REPORT)