

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: P451548

Luminaire Tested: **GALN-SA2B-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9305 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - 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

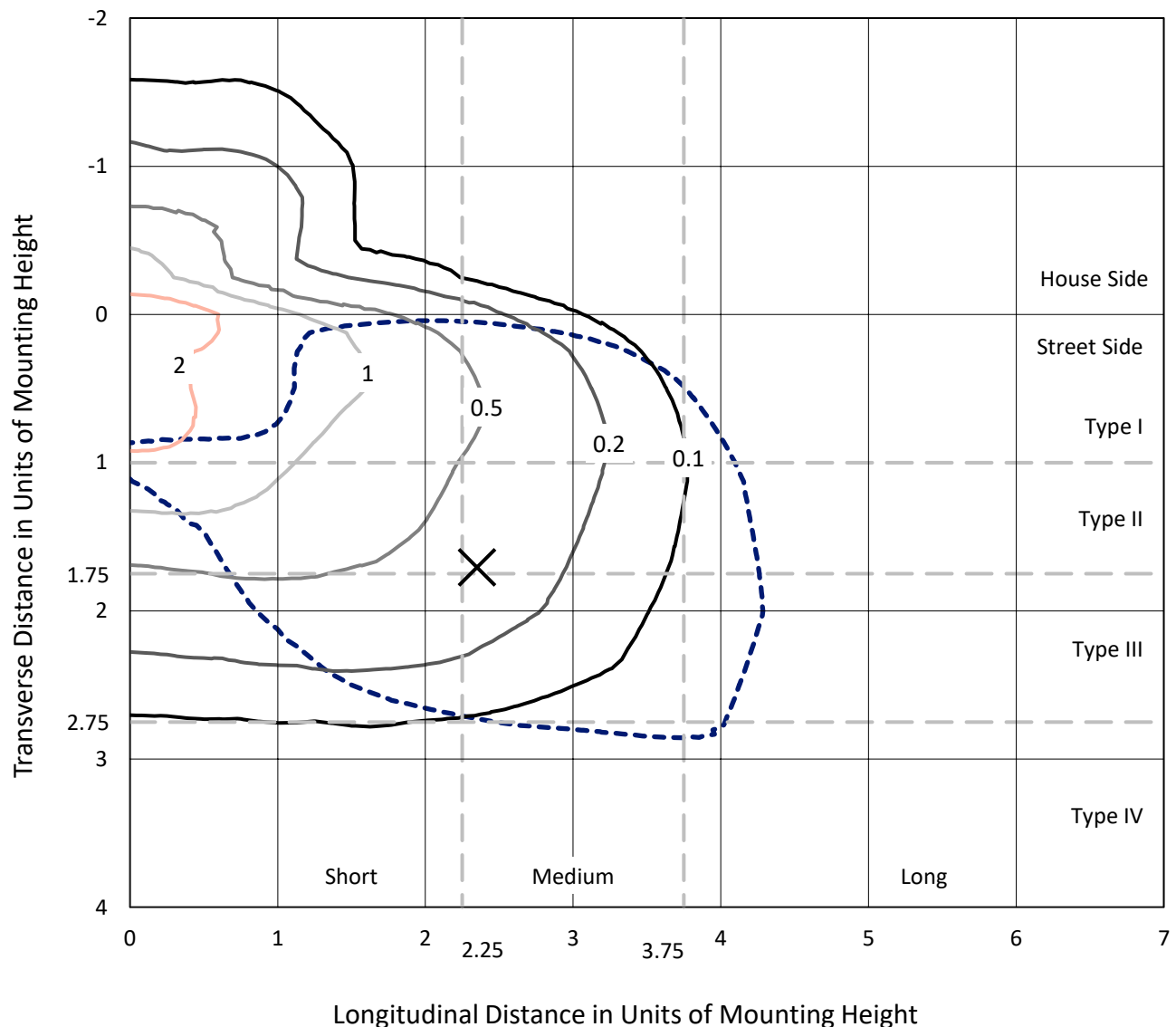


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

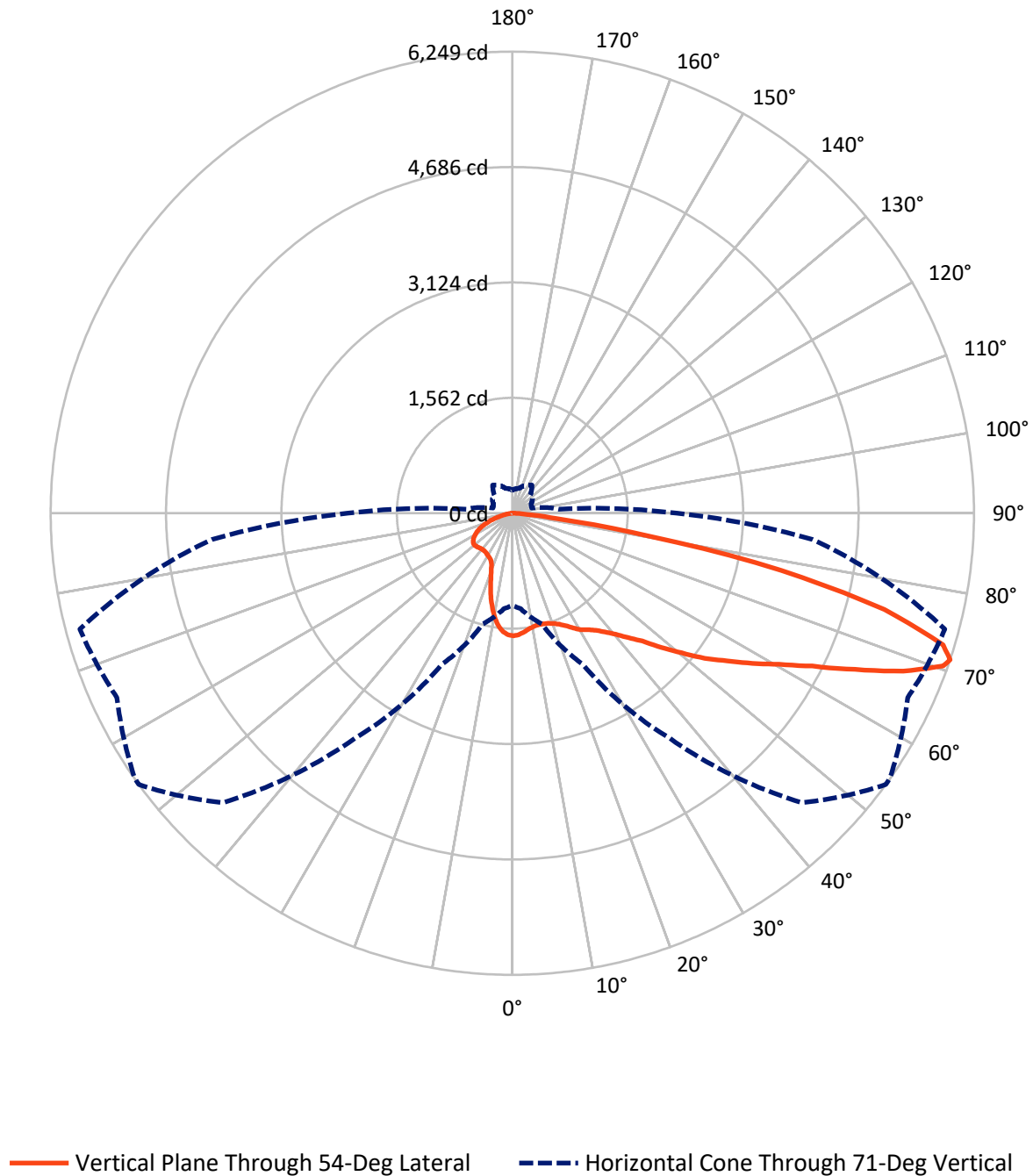


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.0	0.0	1680.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7625.0	0.0	7625.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	9305.0	0.0	9305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	1.6
10°-20°	390.6	4.2
20°-30°	650.4	7.0
30°-40°	961.8	10.3
40°-50°	1354.7	14.6
50°-60°	1814.0	19.5
60°-70°	2286.4	24.6
70°-80°	1561.6	16.8
80°-90°	137.3	1.5
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°	9305.0	100.0
0°-180°	9305.0	100.0

Coefficient of Utilization



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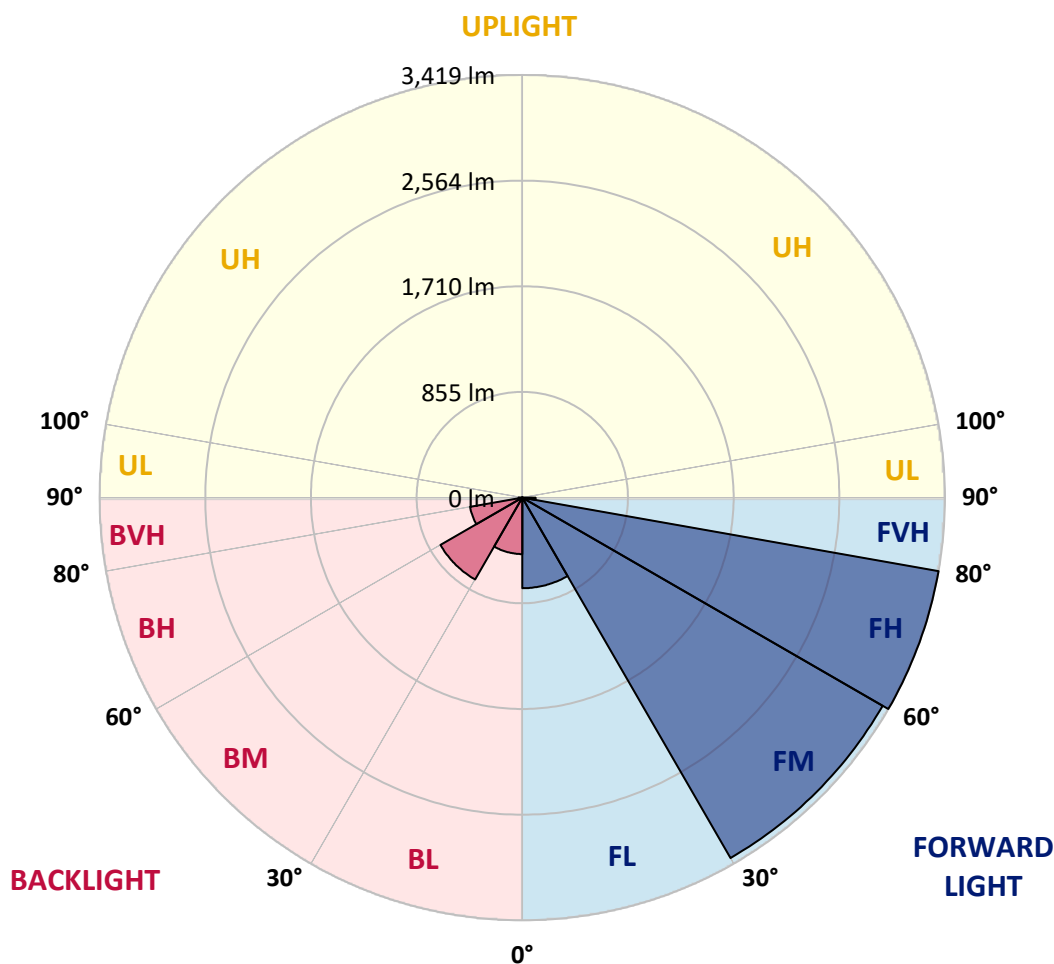
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.5	7.9			
FM	(30°-60°)	3366.2	36.2			
FH	(60°-80°)	3419.0	36.7			G2/5000
FVH	(80°-90°)	107.3	1.2			G2/225
BL	(0°-30°)	456.6	4.9	B1/500		
BM	(30°-60°)	764.3	8.2	B1/1000		
BH	(60°-80°)	429.1	4.6	B1/500		G1/500
BVH	(80°-90°)	30.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	1603.9	1611.4	1613.4	1618.4	1629.0	1637.5	1646.1	1645.1	1657.1	1662.2	1666.7
5°	1532.5	1534.5	1542.0	1552.1	1570.7	1594.3	1617.4	1617.9	1647.6	1671.2	1682.8
7.5°	1480.2	1486.7	1491.8	1502.3	1521.9	1547.6	1584.3	1587.3	1640.0	1686.8	1711.4
10°	1446.0	1453.6	1459.1	1472.2	1491.8	1520.4	1560.1	1565.7	1634.5	1711.4	1754.6
12.5°	1414.9	1422.4	1427.4	1444.5	1470.2	1505.3	1550.1	1556.6	1636.5	1740.1	1801.9
15°	1434.0	1440.0	1438.0	1443.0	1460.1	1500.3	1554.1	1560.6	1644.1	1767.7	1848.6
17.5°	1518.9	1523.9	1507.4	1488.3	1480.2	1509.9	1566.7	1573.7	1659.1	1796.4	1896.4
20°	1644.1	1657.6	1621.4	1578.7	1540.0	1544.0	1592.8	1600.3	1680.3	1825.0	1945.1
22.5°	1806.9	1817.0	1772.7	1702.4	1631.0	1594.3	1632.0	1636.5	1711.9	1862.2	1998.4
25°	1998.4	2004.4	1943.1	1852.7	1749.6	1680.3	1685.8	1693.8	1764.2	1904.4	2045.7
27.5°	2184.4	2203.5	2132.6	2022.0	1886.3	1770.7	1759.7	1764.7	1821.0	1928.0	2078.3
30°	2405.0	2403.5	2328.6	2200.5	2026.6	1869.2	1829.5	1828.5	1851.6	1939.6	2102.0
32.5°	2580.9	2601.6	2528.2	2388.4	2186.9	1971.3	1877.8	1875.8	1875.3	1959.7	2137.1
35°	2781.0	2784.0	2716.7	2575.9	2360.3	2099.4	1945.1	1935.1	1923.5	2002.9	2184.9
37.5°	2959.9	2974.0	2912.2	2754.4	2530.7	2232.6	2037.6	2031.1	1995.9	2077.8	2261.3
40°	3099.6	3110.2	3073.0	2922.7	2698.6	2376.4	2155.2	2143.2	2100.4	2200.5	2363.3
42.5°	3145.4	3167.0	3181.6	3107.7	2891.6	2546.8	2300.0	2284.9	2252.2	2386.4	2480.9
45°	3148.9	3183.1	3260.0	3263.5	3085.6	2750.8	2468.9	2458.3	2455.8	2624.7	2646.3
47.5°	3122.3	3156.9	3286.1	3356.0	3258.5	2956.9	2712.6	2696.0	2697.6	2919.2	2831.8
50°	3057.9	3099.1	3256.0	3415.3	3393.7	3171.0	2970.0	2964.4	2995.6	3255.5	3024.3
52.5°	2936.8	2986.6	3224.8	3452.5	3494.2	3355.5	3262.5	3246.9	3325.8	3620.4	3234.9
55°	2601.6	2676.4	3110.7	3473.1	3589.7	3531.9	3525.9	3554.0	3658.6	4018.4	3466.6
57.5°	2426.6	2482.9	2862.9	3476.6	3710.3	3737.0	3833.5	3840.5	4023.5	4441.1	3728.4
60°	2331.1	2380.9	2727.2	3453.5	3878.7	3990.8	4148.1	4173.2	4379.8	4899.0	3999.8
62.5°	2247.7	2290.4	2645.8	3373.6	4068.7	4367.3	4555.7	4567.8	4784.4	5404.7	4267.7
65°	2051.2	2099.9	2481.9	3293.7	4232.6	4837.7	5096.6	5082.5	5215.2	5840.9	4435.6
67.5°	1786.3	1848.1	2175.8	3017.7	4313.5	5351.9	5705.7	5688.1	5640.4	6126.9	4483.9
70°	1448.0	1481.2	1784.3	2540.7	3990.3	5621.8	6186.7	6168.1	5903.8	6164.6	4255.7
71°	1246.0	1297.8	1553.6	2256.8	3721.4	5539.4	6248.6	6243.5	5904.3	6060.6	4083.8
72.5°	972.6	1004.2	1230.4	1748.6	3163.0	5070.9	6095.8	6114.9	5776.1	5771.6	3729.4
75°	615.2	629.3	772.0	1029.4	1735.5	3591.2	5203.6	5255.4	5128.7	4724.1	2773.5
77.5°	357.4	375.5	462.4	606.7	749.9	1949.2	3723.4	3779.7	3563.6	2601.1	1135.4
80°	208.1	228.2	304.6	352.3	344.3	723.3	1895.9	1991.9	1543.0	656.9	318.7
82.5°	115.6	129.2	214.1	214.6	183.5	236.2	596.6	624.3	440.3	264.9	130.2
85°	83.9	95.0	138.2	125.2	88.0	101.5	207.6	217.6	177.9	111.6	42.2
87.5°	29.7	42.2	75.9	60.3	24.1	21.1	59.8	48.8	45.2	31.2	9.5
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°	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	1669.2	1670.2	1665.2	1656.1	1647.1	1635.5	1622.5	1612.4	1607.9	1607.4	1606.9
5°	1687.3	1689.8	1670.7	1642.6	1611.4	1573.2	1540.5	1503.3	1493.8	1478.7	1483.2
7.5°	1716.4	1714.9	1677.2	1617.4	1544.5	1463.6	1395.3	1355.6	1314.3	1302.8	1303.3
10°	1758.2	1748.6	1677.2	1566.2	1444.5	1324.4	1228.9	1168.6	1135.9	1108.8	1098.7
12.5°	1802.4	1778.3	1661.2	1494.3	1315.9	1168.6	1066.1	984.6	963.5	941.4	941.9
15°	1844.6	1804.4	1629.5	1393.3	1177.1	1002.2	902.7	853.9	847.4	849.9	849.4
17.5°	1882.8	1823.0	1581.2	1280.7	1015.3	859.5	806.7	810.2	827.8	840.4	841.9
20°	1921.5	1834.1	1509.4	1129.9	862.5	773.0	775.0	802.7	829.3	846.4	848.9
22.5°	1958.2	1839.1	1424.9	984.1	751.9	736.3	766.0	795.6	821.8	838.4	840.9
25°	1982.3	1827.5	1305.3	831.8	697.6	723.3	754.4	779.6	801.7	818.8	822.8
27.5°	1988.9	1790.3	1157.0	708.7	672.5	710.7	739.4	757.9	775.0	791.1	794.1
30°	1985.3	1735.5	994.2	636.3	657.9	696.1	718.2	731.8	752.4	765.0	767.5
32.5°	1979.8	1671.7	824.3	597.6	645.9	682.6	695.6	707.7	707.2	702.2	705.7
35°	1981.8	1595.3	686.6	574.5	635.3	672.5	683.6	668.5	625.3	623.2	621.2
37.5°	1992.4	1519.9	586.6	558.4	629.8	671.0	677.0	607.7	569.5	551.9	547.4
40°	2019.5	1432.0	520.7	546.3	629.3	682.6	647.4	577.0	503.6	469.4	466.9
42.5°	2055.7	1345.5	480.5	538.8	635.3	700.1	635.3	533.8	453.9	433.8	430.7
45°	2109.5	1246.5	458.4	535.3	644.4	706.7	631.3	502.1	433.8	417.7	417.7
47.5°	2170.3	1152.0	446.3	532.8	655.9	702.2	595.6	492.1	424.2	426.2	435.8
50°	2230.6	1070.1	437.3	527.2	666.0	699.6	581.0	491.6	426.7	452.4	469.4
52.5°	2300.5	1012.3	426.2	518.2	666.0	683.6	576.5	501.6	433.8	441.3	448.8
55°	2384.9	994.2	412.1	498.6	653.9	643.4	574.0	516.2	438.8	421.2	424.2
57.5°	2496.5	1023.3	398.6	474.0	626.3	601.6	573.0	520.2	427.2	412.7	409.6
60°	2626.2	1081.1	394.6	448.8	588.6	565.9	567.0	508.7	411.1	396.1	398.6
62.5°	2717.2	1115.8	392.0	429.7	547.4	526.7	552.4	494.6	404.1	391.0	393.6
65°	2717.2	1073.6	368.9	400.6	494.1	479.5	534.8	477.0	395.1	380.0	377.5
67.5°	2614.1	950.5	333.7	356.9	435.3	425.7	510.2	455.9	381.5	369.9	363.9
70°	2345.7	720.8	289.5	305.6	360.9	369.4	478.5	427.2	358.9	344.8	335.7
71°	2227.6	627.8	270.9	279.5	332.2	344.8	463.4	415.2	348.8	328.7	312.6
72.5°	1999.9	528.8	242.8	246.3	284.0	306.6	431.7	392.0	329.7	301.1	283.0
75°	1519.4	386.0	195.5	193.5	210.1	243.3	365.4	349.3	289.0	250.3	239.7
77.5°	656.4	210.1	146.3	147.8	142.7	184.5	287.5	300.1	247.8	203.6	194.0
80°	199.0	121.1	100.0	102.0	95.5	123.6	202.6	235.2	199.0	158.3	145.3
82.5°	102.0	72.4	68.4	67.4	60.8	69.9	122.6	160.8	142.2	99.0	87.5
85°	44.2	38.7	33.7	32.7	28.6	25.1	43.7	80.4	75.4	55.3	52.8
87.5°	11.1	10.1	6.5	6.0	3.5	0.5	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)