

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: P522697

Luminaire Tested: **GALN-SA3B-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15835 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

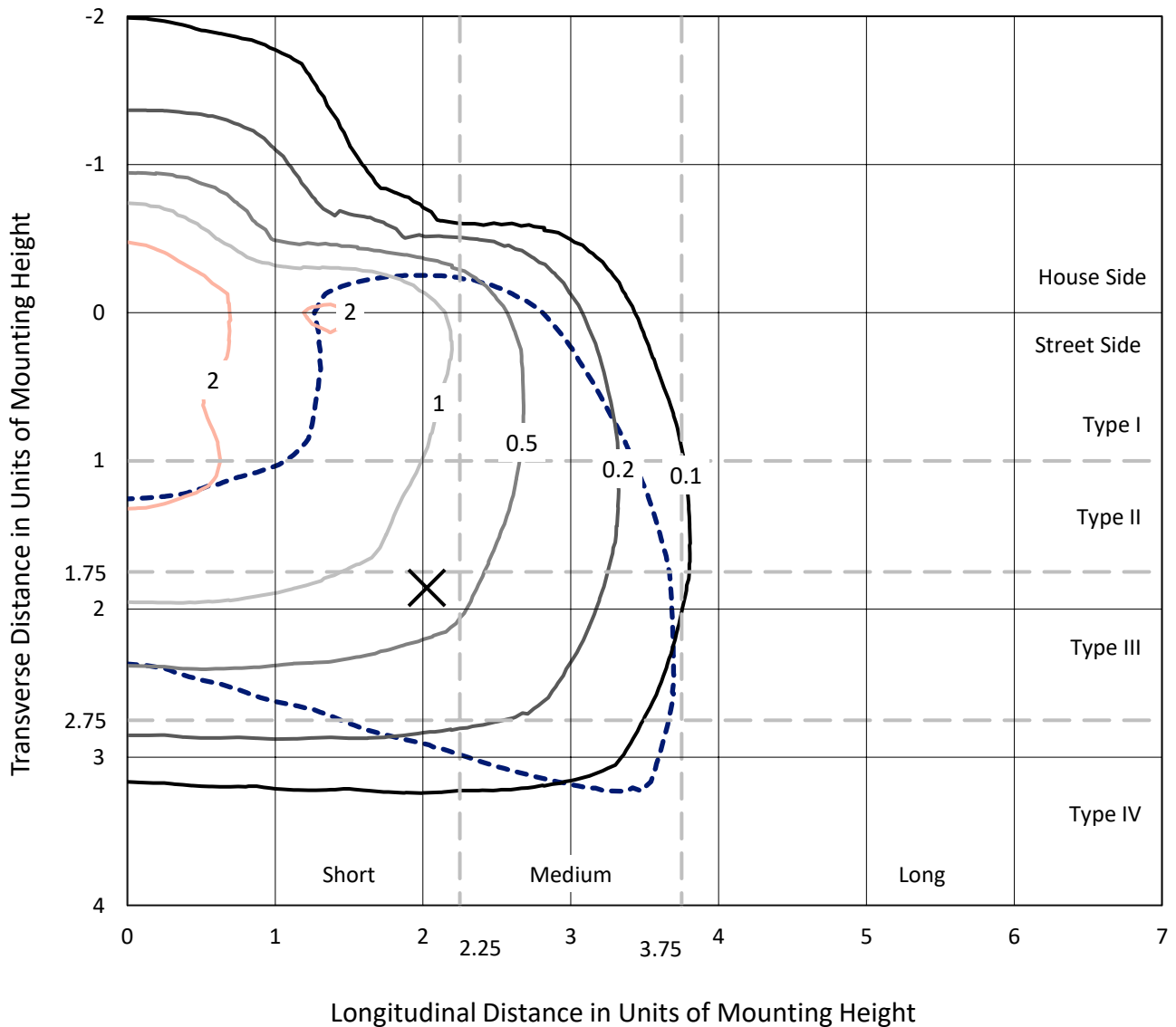
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

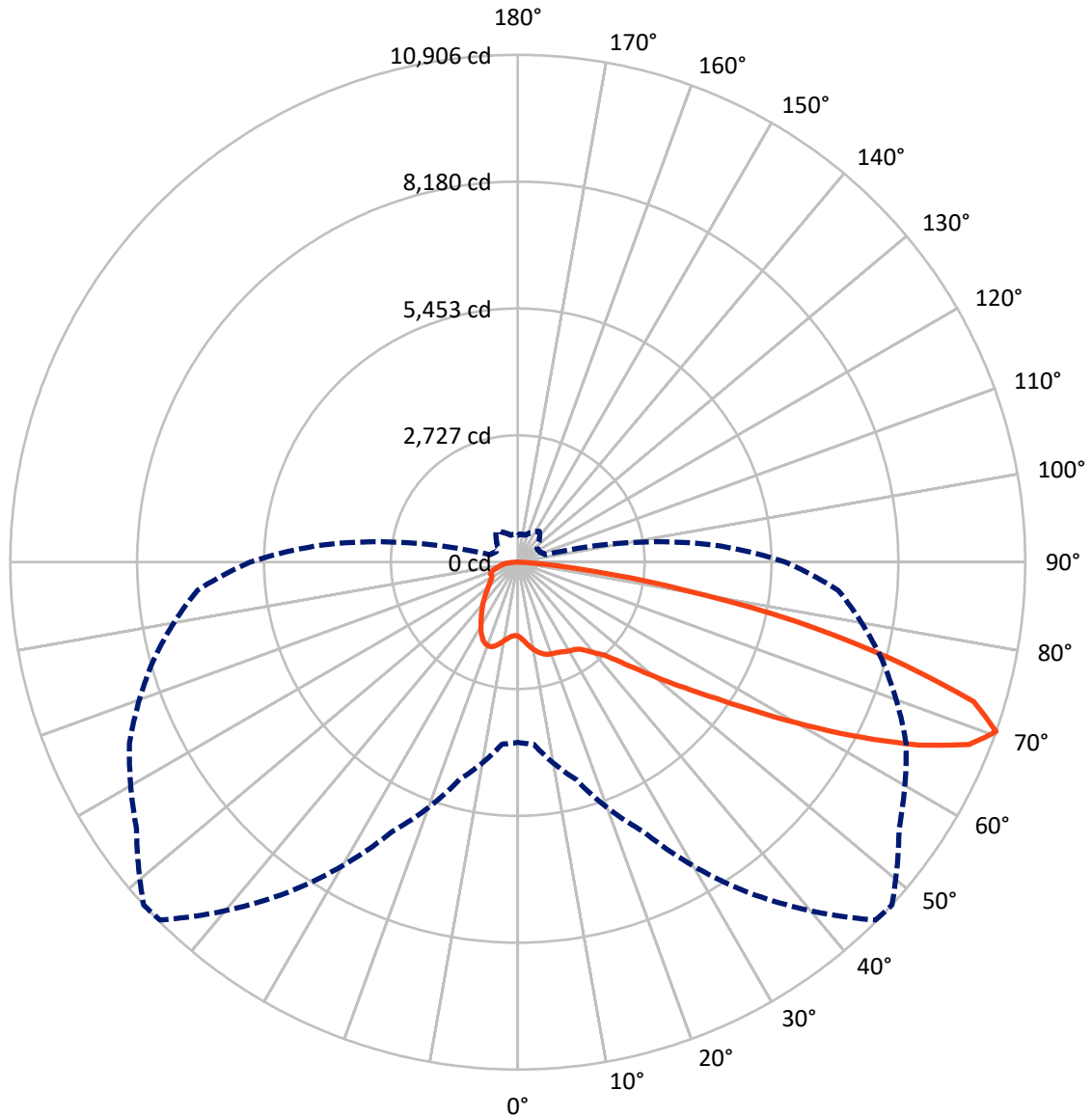
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3585.4	0.0	3585.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12249.7	0.0	12249.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	15835.0	0.0	15835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	1.0
10°-20°	547.8	3.5
20°-30°	911.0	5.8
30°-40°	1291.2	8.2
40°-50°	1906.0	12.0
50°-60°	3301.3	20.8
60°-70°	4663.3	29.4
70°-80°	2680.7	16.9
80°-90°	369.9	2.3
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°	15835.0	100.0
0°-180°	15835.0	100.0

Coefficient of Utilization



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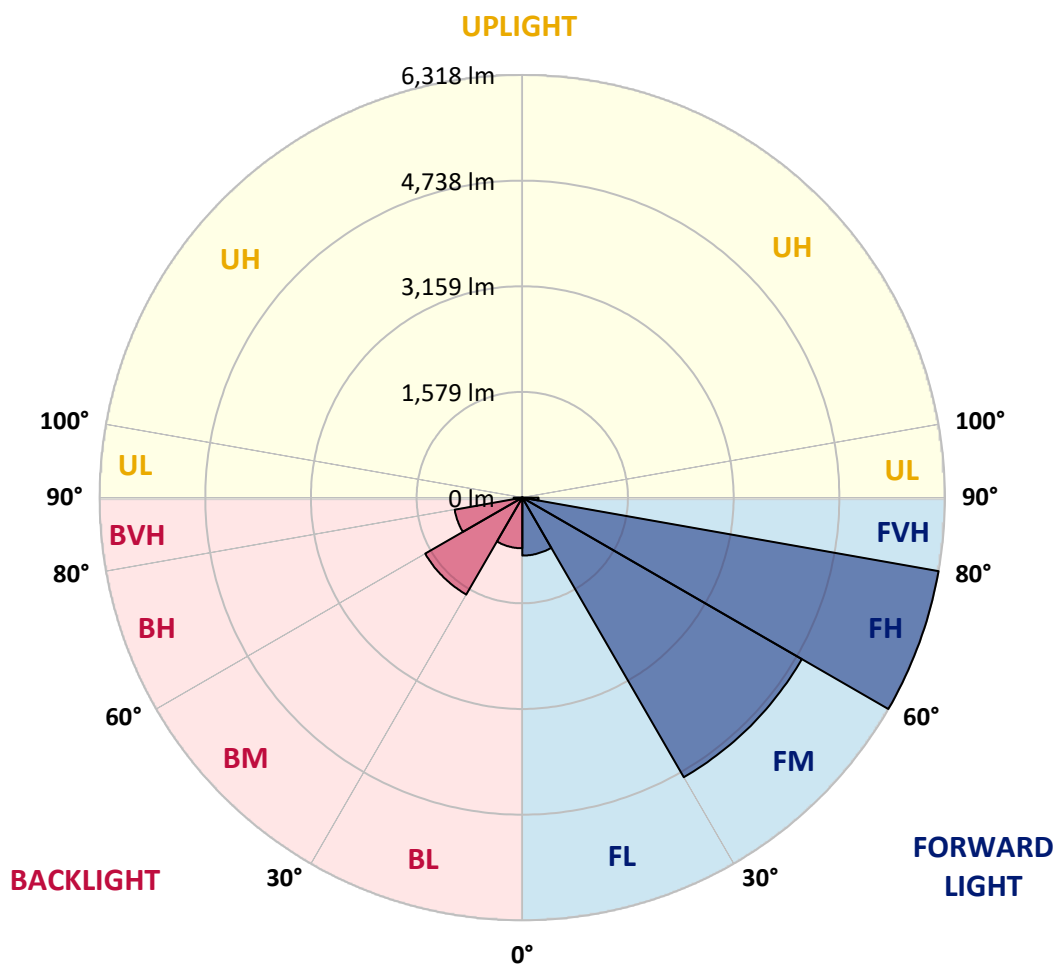
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	865.9	5.5			
FM	(30°-60°)	4824.6	30.5			
FH	(60°-80°)	6317.5	39.9			G3/7500
FVH	(80°-90°)	241.6	1.5			G3/500
BL	(0°-30°)	756.7	4.8	B2/1000		
BM	(30°-60°)	1673.9	10.6	B2/2500		
BH	(60°-80°)	1026.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	128.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6
2.5°	1692.2	1686.2	1685.4	1672.7	1665.9	1653.2	1648.1	1636.2	1621.8	1607.4	1593.9
5°	1825.2	1825.2	1819.3	1801.5	1773.5	1744.7	1732.0	1709.1	1668.4	1635.4	1607.4
7.5°	1961.6	1963.3	1951.5	1925.2	1885.4	1838.8	1826.9	1793.0	1735.4	1687.1	1645.6
10°	2079.4	2079.4	2063.3	2027.7	1977.7	1926.9	1915.0	1876.9	1812.5	1752.3	1698.1
12.5°	2169.2	2169.2	2148.1	2101.4	2047.2	2001.5	1987.9	1951.5	1891.3	1824.4	1755.7
15°	2227.7	2223.5	2199.7	2147.2	2094.7	2054.8	2045.5	2015.0	1959.9	1892.2	1815.0
17.5°	2230.2	2228.6	2205.7	2161.6	2115.9	2088.7	2082.8	2062.5	2019.3	1954.9	1873.5
20°	2181.1	2184.5	2169.2	2137.9	2115.9	2104.0	2101.4	2094.7	2064.2	2004.0	1922.7
22.5°	2128.6	2134.5	2120.1	2103.1	2101.4	2113.3	2115.0	2116.7	2097.2	2038.7	1964.2
25°	2115.9	2120.1	2105.7	2090.4	2099.8	2131.1	2137.9	2144.7	2129.4	2080.3	2013.3
27.5°	2180.3	2176.9	2148.9	2115.9	2121.8	2164.2	2173.5	2181.1	2173.5	2131.1	2074.3
30°	2362.4	2351.4	2295.5	2198.9	2168.4	2198.0	2207.4	2228.6	2228.6	2197.2	2140.4
32.5°	2667.5	2646.3	2543.8	2354.0	2248.0	2230.2	2239.6	2274.3	2292.1	2267.5	2205.7
35°	3037.8	3015.7	2869.2	2614.1	2393.8	2294.6	2292.1	2331.1	2378.5	2323.5	2243.0
37.5°	3409.8	3386.9	3210.6	2924.2	2606.5	2430.2	2415.0	2428.5	2448.9	2348.0	2294.6
40°	3781.8	3754.6	3600.4	3270.8	2866.6	2609.9	2570.0	2509.0	2500.6	2428.5	2394.6
42.5°	4150.4	4125.8	4047.8	3659.7	3178.4	2785.3	2724.3	2619.2	2651.4	2608.2	2578.5
45°	4522.3	4524.0	4441.0	4096.1	3554.7	3109.0	3026.8	2862.4	2938.6	2922.5	2939.5
47.5°	4852.0	4847.7	4818.1	4519.8	4021.6	3525.9	3419.9	3229.3	3359.8	3419.1	3548.7
50°	5171.4	5168.9	5170.6	5000.3	4563.9	4021.6	3904.6	3704.6	3998.7	4204.6	4436.8
52.5°	5629.0	5643.4	5540.9	5496.0	5223.1	4607.1	4478.3	4271.5	4753.7	5078.2	5531.6
55°	6088.3	6076.4	5995.9	6042.5	5912.9	5300.2	5165.5	5001.1	5594.3	5949.3	6630.6
57.5°	6358.6	6362.8	6445.0	6672.9	6764.5	6164.5	6042.5	5915.4	6539.1	6790.7	7608.4
60°	6601.8	6621.3	6857.7	7288.1	7536.4	7226.3	7117.8	6994.1	7405.9	7505.9	8457.5
62.5°	6678.0	6738.2	7150.9	7794.8	8288.9	8424.4	8289.7	8016.9	8231.2	8192.3	9032.8
65°	6297.6	6379.8	7119.5	7984.7	8960.8	9561.6	9476.0	8969.3	8934.5	8699.8	9126.9
67.5°	5296.0	5378.2	6328.1	7586.4	9238.7	10546.2	10460.6	9664.1	9361.6	8747.3	8415.1
70°	3875.0	3926.7	4835.0	6387.4	8680.3	10876.7	10906.3	10003.1	9209.1	8102.4	6909.4
72.5°	2232.8	2347.2	2983.5	4493.5	7091.5	10041.2	10247.1	9298.1	8244.8	6759.4	4830.8
75°	960.1	962.6	1379.5	2478.5	4802.8	8071.1	8270.2	7707.6	6474.7	4674.0	2579.4
77.5°	456.7	465.2	606.7	1106.6	2643.8	5576.5	6113.7	5445.1	4141.0	2245.5	974.5
80°	296.6	302.5	371.1	549.1	1296.5	3233.5	3608.1	3141.2	1826.9	802.4	420.3
82.5°	179.6	181.3	248.3	335.6	713.5	1464.2	1726.1	1363.4	779.6	480.5	247.4
85°	109.3	110.2	150.8	207.6	433.0	505.9	519.4	515.2	457.6	314.4	132.2
87.5°	52.5	54.2	78.0	98.3	170.3	156.8	148.3	172.0	216.1	169.5	56.8
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°	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6	1589.6
2.5°	1587.9	1585.4	1579.5	1576.9	1575.2	1576.1	1575.2	1575.2	1576.1	1576.1	1576.1
5°	1595.6	1591.3	1582.0	1582.0	1587.1	1599.0	1610.0	1618.5	1627.8	1626.9	1626.9
7.5°	1628.6	1621.0	1610.0	1613.4	1626.1	1644.7	1664.2	1682.9	1701.5	1703.2	1702.3
10°	1676.9	1669.3	1657.4	1661.7	1682.0	1710.0	1734.5	1761.7	1782.0	1787.9	1786.2
12.5°	1732.0	1716.7	1706.6	1718.4	1750.6	1787.9	1811.7	1832.0	1846.4	1854.9	1851.5
15°	1787.9	1773.5	1761.7	1786.2	1825.2	1860.0	1871.8	1875.2	1877.7	1886.2	1884.5
17.5°	1842.2	1822.7	1818.4	1850.6	1887.9	1903.2	1896.4	1882.0	1871.0	1877.7	1876.9
20°	1890.5	1875.2	1873.5	1905.7	1920.1	1905.7	1876.9	1851.5	1832.0	1833.7	1832.8
22.5°	1936.2	1924.3	1926.0	1939.6	1916.7	1867.6	1820.1	1785.4	1764.2	1768.4	1771.0
25°	1987.1	1975.2	1979.4	1957.4	1882.0	1796.4	1727.8	1698.1	1689.6	1698.1	1704.0
27.5°	2053.1	2045.5	2043.0	1958.2	1820.1	1691.3	1613.4	1602.4	1610.0	1628.6	1637.9
30°	2124.3	2124.3	2110.8	1943.8	1735.4	1565.1	1497.3	1499.0	1525.2	1551.5	1560.8
32.5°	2193.0	2207.4	2165.0	1904.9	1626.1	1442.2	1390.5	1392.2	1415.1	1447.3	1455.8
35°	2249.7	2291.3	2211.6	1833.7	1497.3	1338.8	1299.8	1277.0	1277.8	1302.4	1309.2
37.5°	2327.7	2404.8	2238.7	1727.8	1360.0	1250.7	1206.6	1166.8	1140.5	1130.4	1130.4
40°	2463.3	2576.8	2245.5	1571.0	1230.4	1166.8	1104.1	1056.7	1005.8	960.1	951.6
42.5°	2692.9	2836.1	2231.9	1390.5	1113.4	1074.4	1013.4	955.0	884.6	820.2	815.2
45°	3099.6	3173.4	2195.5	1203.2	1009.2	985.5	926.2	862.6	788.0	730.4	726.2
47.5°	3751.3	3647.0	2147.2	1037.2	914.3	907.5	861.8	788.0	713.5	673.6	669.4
50°	4702.8	4392.7	2140.4	916.8	838.0	841.4	804.1	736.4	671.1	638.1	633.0
52.5°	5848.5	5293.4	2185.3	832.1	771.1	783.8	765.2	702.5	644.8	616.9	611.8
55°	6960.2	6103.5	2212.5	766.0	708.4	732.1	734.7	682.1	629.6	601.6	598.2
57.5°	7862.6	6713.6	2092.1	705.8	654.2	690.6	709.2	670.3	622.0	600.8	597.4
60°	8490.5	7001.7	1749.8	652.5	614.3	657.5	699.9	671.1	640.6	643.1	644.8
62.5°	8690.5	6873.8	1312.6	612.6	587.2	646.5	715.2	705.8	674.5	694.0	697.4
65°	8359.2	6345.0	951.6	581.3	563.5	654.2	760.9	731.3	662.6	677.0	677.0
67.5°	7250.0	5466.3	740.6	552.5	536.4	668.6	806.7	728.7	634.7	651.6	636.4
70°	5751.0	4228.3	616.9	520.3	507.6	647.4	810.9	702.5	601.6	605.0	576.2
72.5°	3816.5	2780.2	530.4	489.8	463.5	582.1	776.2	668.6	569.4	549.9	521.1
75°	1870.1	1386.3	462.7	451.6	405.9	506.7	728.7	636.4	534.7	504.2	488.1
77.5°	724.5	589.8	394.9	403.3	353.3	446.6	666.0	590.6	488.9	447.4	434.7
80°	351.7	334.7	323.7	336.4	290.6	380.5	608.4	550.8	446.6	400.8	382.2
82.5°	218.6	206.8	248.3	261.8	223.7	347.4	577.1	516.9	393.2	332.2	316.9
85°	111.0	118.6	166.1	178.8	160.2	276.2	475.4	388.1	283.9	235.6	237.3
87.5°	42.4	56.8	87.3	94.1	85.6	145.7	261.8	226.2	182.2	123.7	114.4
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)