

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: P451156

Luminaire Tested: **GALN-SA2A-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8301 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

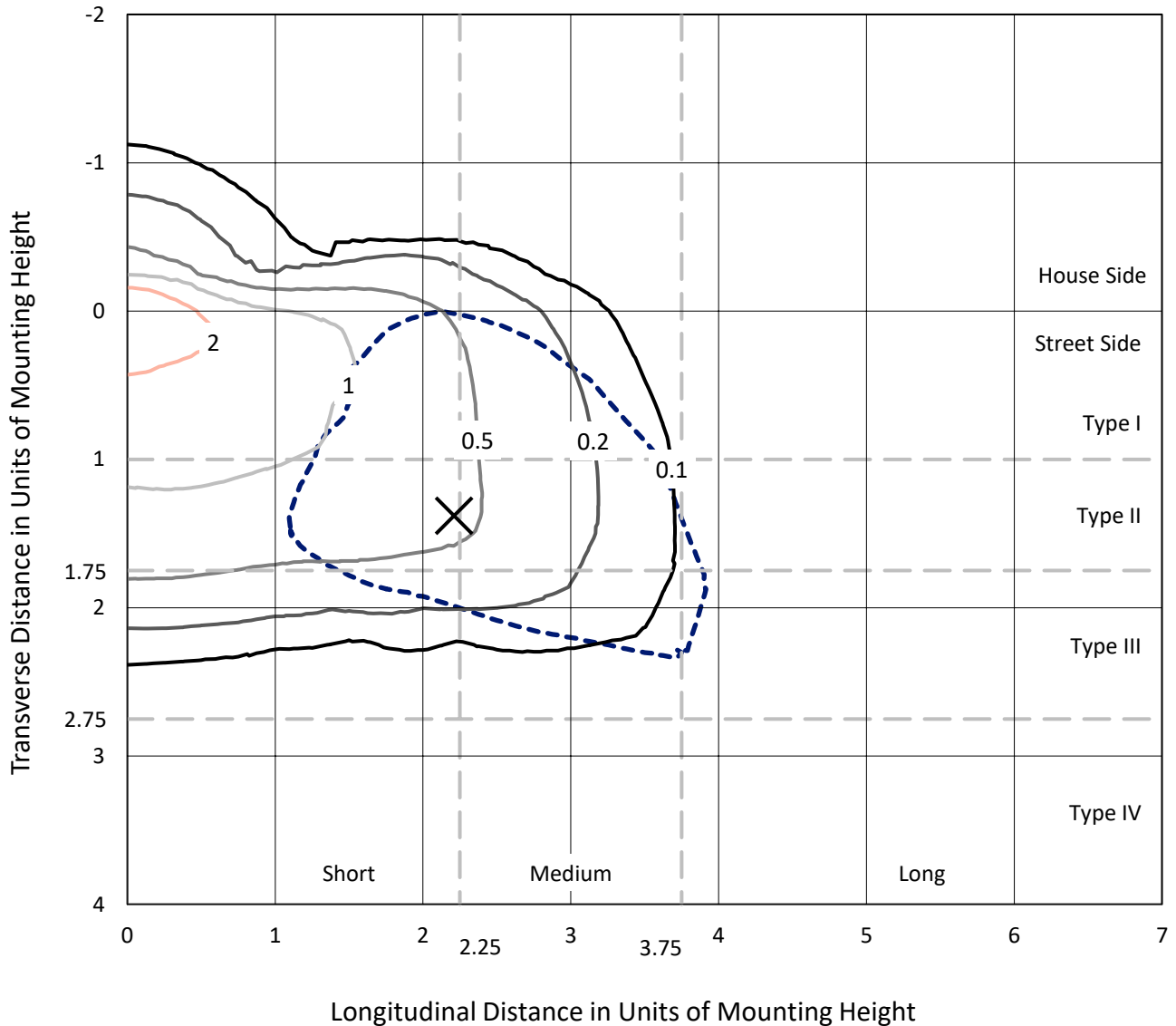
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

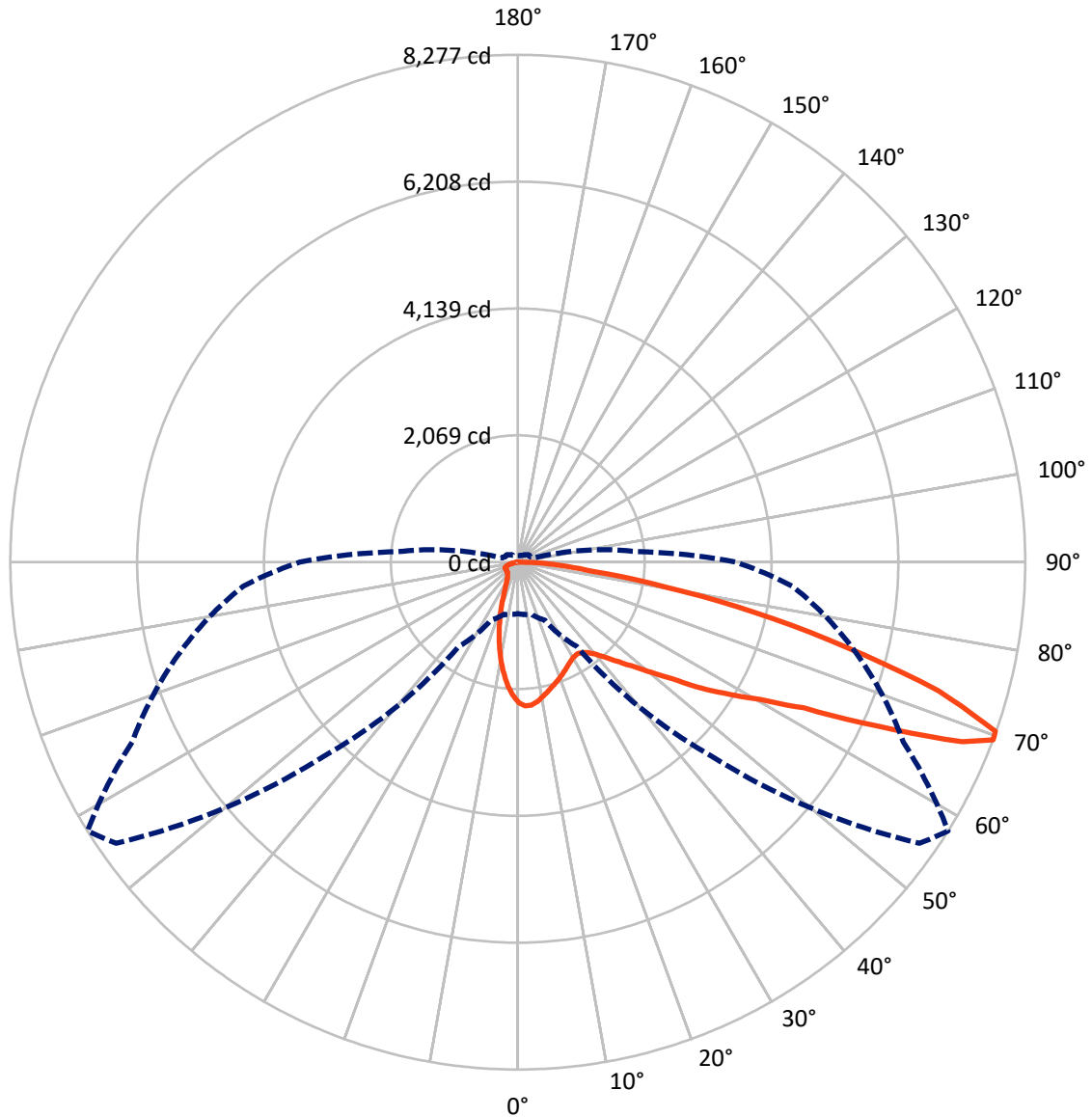
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1216.5	0.0	1216.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	7084.5	0.0	7084.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	8301.0	0.0	8301.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.8	2.3
10°-20°	427.8	5.2
20°-30°	552.7	6.7
30°-40°	717.8	8.6
40°-50°	1043.6	12.6
50°-60°	1665.3	20.1
60°-70°	2224.6	26.8
70°-80°	1282.4	15.4
80°-90°	192.1	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°	8301.0	100.0
0°-180°	8301.0	100.0

**Coefficient of Utilization**



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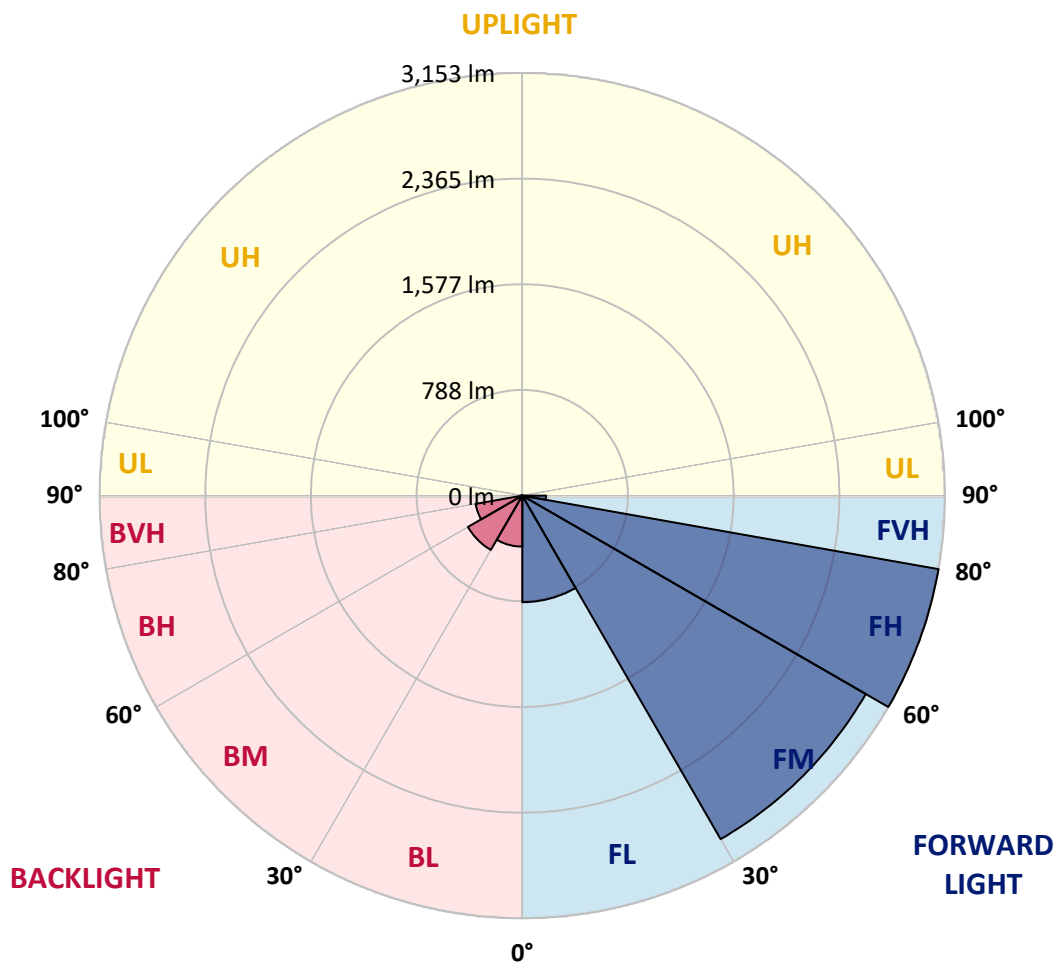
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.0	9.6			
FM	(30°-60°)	2958.9	35.6			
FH	(60°-80°)	3153.2	38.0			G2/5000
FVH	(80°-90°)	177.4	2.1			G2/225
BL	(0°-30°)	380.2	4.6	B1/500		
BM	(30°-60°)	467.8	5.6	B1/1000		
BH	(60°-80°)	353.7	4.3	B1/500		G1/500
BVH	(80°-90°)	14.7	0.2			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9
2.5°	2379.1	2385.6	2383.7	2381.4	2377.7	2367.5	2350.9	2348.1	2337.4	2314.7	2286.5
5°	2342.5	2348.1	2348.5	2351.8	2356.4	2354.6	2342.5	2341.1	2325.4	2294.8	2247.6
7.5°	2217.1	2224.5	2240.7	2258.7	2274.9	2290.2	2293.9	2296.2	2286.5	2251.3	2188.4
10°	2075.9	2083.3	2090.7	2117.5	2157.3	2195.3	2226.8	2230.9	2233.3	2200.9	2124.0
12.5°	1919.4	1934.7	1950.4	1990.2	2043.5	2103.2	2158.7	2167.5	2183.3	2158.7	2068.5
15°	1786.5	1802.3	1824.9	1860.6	1924.9	2011.0	2089.3	2103.6	2134.7	2122.2	2016.6
17.5°	1694.4	1699.9	1715.7	1756.4	1825.9	1916.6	2021.2	2049.9	2099.5	2096.2	1972.2
20°	1621.7	1628.7	1638.4	1663.4	1735.6	1831.4	1957.8	1994.8	2062.0	2073.1	1928.2
22.5°	1591.2	1596.2	1594.9	1608.3	1657.4	1753.6	1893.5	1937.4	2028.6	2057.3	1887.4
25°	1593.0	1597.6	1590.7	1587.5	1616.6	1685.1	1826.3	1882.3	2001.8	2046.7	1850.4
27.5°	1624.0	1627.3	1614.3	1601.3	1603.7	1642.5	1770.8	1832.8	1979.1	2051.3	1819.4
30°	1665.7	1671.7	1663.4	1647.6	1630.5	1632.4	1735.1	1796.2	1968.5	2067.5	1804.6
32.5°	1719.4	1724.9	1721.2	1708.7	1686.5	1662.0	1726.3	1782.8	1969.4	2100.4	1801.3
35°	1775.9	1787.0	1793.0	1792.1	1774.0	1731.4	1761.1	1807.8	1991.6	2155.5	1820.3
37.5°	1839.8	1849.0	1874.9	1891.6	1874.9	1825.4	1839.3	1871.7	2040.7	2235.1	1862.0
40°	1901.8	1915.7	1953.6	2005.5	1999.0	1955.5	1958.7	1980.0	2127.2	2353.6	1943.5
42.5°	1966.6	1983.3	2049.5	2126.3	2141.6	2107.8	2116.6	2135.6	2250.4	2518.0	2083.3
45°	2049.9	2069.8	2151.3	2247.2	2307.3	2286.5	2311.5	2320.8	2415.2	2731.9	2267.5
47.5°	2157.3	2180.5	2280.9	2400.4	2485.6	2504.6	2548.1	2542.5	2619.4	2985.1	2506.4
50°	2338.4	2351.3	2446.2	2568.0	2685.1	2770.7	2818.0	2826.8	2872.6	3231.4	2773.5
52.5°	2553.6	2565.2	2633.7	2740.2	2886.9	3068.4	3185.1	3156.4	3167.5	3531.4	3086.0
55°	2795.7	2815.2	2858.7	2929.5	3119.8	3386.9	3621.2	3628.1	3505.0	3818.4	3385.5
57.5°	2983.2	3016.1	3090.6	3191.6	3432.8	3741.1	4055.9	4060.5	3903.1	4124.9	3716.1
60°	2888.8	2927.7	3098.1	3343.9	3843.4	4359.1	4575.3	4548.9	4290.6	4473.9	4119.3
62.5°	2481.4	2488.3	2736.0	3120.3	3969.8	5186.0	5348.4	5236.9	4807.7	4916.5	4529.0
65°	1606.0	1651.3	1847.6	2386.0	3554.5	5644.7	6703.0	6445.2	5532.7	5418.8	4872.1
67.5°	1013.9	1002.3	1083.8	1362.5	2444.8	5240.6	7859.0	7818.3	6480.8	5735.9	4790.1
69°	840.7	853.7	881.5	1044.4	1682.4	4474.4	7995.6	8277.1	6940.5	5710.9	4492.5
70°	762.5	768.5	797.7	925.9	1298.1	3747.6	7771.5	8264.6	7121.1	5606.3	4276.7
72.5°	605.1	604.6	654.6	770.3	970.3	2139.3	6381.3	7175.2	6919.2	5119.3	3533.7
75°	459.7	467.1	522.2	651.8	894.0	1168.9	4453.1	5525.8	5526.2	4043.4	2205.0
77.5°	331.5	336.1	400.5	547.2	842.1	947.7	2966.1	3963.3	3725.8	1852.7	693.0
80°	217.1	219.9	269.0	433.3	759.2	894.0	1758.7	2425.9	1757.4	491.7	229.2
82.5°	119.0	132.9	164.3	280.5	609.2	825.9	1068.9	1227.7	659.2	219.0	119.4
85°	59.7	63.4	92.6	163.9	398.1	683.3	744.4	704.1	340.3	108.8	62.0
87.5°	17.6	22.2	38.4	63.4	161.6	356.0	414.3	371.7	131.0	39.4	13.0
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°	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9	2293.9
2.5°	2274.9	2266.6	2229.6	2196.2	2165.7	2133.3	2106.0	2081.9	2084.2	2084.7	2060.1
5°	2223.1	2204.1	2133.7	2068.0	2012.4	1942.1	1881.9	1843.0	1823.6	1797.6	1806.9
7.5°	2152.7	2116.1	2018.5	1909.2	1806.9	1715.7	1616.6	1548.6	1505.0	1462.9	1468.5
10°	2080.0	2021.2	1879.1	1734.7	1602.3	1456.4	1330.1	1221.7	1141.2	1111.1	1091.2
12.5°	2005.5	1928.2	1747.6	1555.5	1372.6	1198.1	1018.9	902.7	813.9	766.6	772.7
15°	1937.4	1843.5	1610.6	1376.3	1138.9	931.0	752.3	641.6	579.6	566.6	574.1
17.5°	1874.5	1751.3	1482.4	1202.3	925.0	698.1	565.3	502.8	477.8	470.8	470.4
20°	1809.7	1673.1	1338.4	1016.2	720.8	541.2	463.9	434.7	430.1	432.9	433.3
22.5°	1743.9	1576.3	1190.2	831.5	574.1	442.6	405.5	397.7	401.4	407.9	408.8
25°	1683.3	1491.2	1047.7	669.4	458.3	388.9	370.8	370.8	379.2	388.9	389.3
27.5°	1633.3	1408.8	905.5	531.5	383.8	350.0	344.0	347.2	358.8	366.2	366.7
30°	1592.1	1331.9	771.3	425.9	337.5	319.0	317.6	323.1	331.5	338.4	338.9
32.5°	1561.1	1264.3	645.8	357.9	305.5	295.4	294.9	299.1	303.7	305.5	307.4
35°	1549.0	1208.3	531.0	314.8	284.3	277.8	277.8	277.3	279.2	280.1	281.0
37.5°	1558.7	1165.2	442.1	287.0	268.5	263.9	261.1	258.3	257.4	257.4	257.9
40°	1600.0	1142.6	375.9	269.0	257.4	250.5	245.4	242.1	238.9	239.8	240.7
42.5°	1687.4	1146.7	331.0	256.9	247.7	238.0	230.5	226.8	224.5	227.3	226.8
45°	1826.8	1188.4	302.3	248.6	238.0	225.5	218.5	214.8	214.8	219.0	220.4
47.5°	2021.7	1268.0	287.0	242.1	230.5	215.7	208.8	206.0	206.9	213.9	214.3
50°	2259.7	1406.4	284.3	238.9	226.8	208.8	200.9	198.1	200.5	207.9	208.8
52.5°	2522.1	1584.7	297.7	239.3	223.6	204.6	194.4	190.3	192.6	198.6	200.5
55°	2833.2	1807.8	332.4	241.2	219.0	202.3	189.8	180.5	183.3	187.5	188.0
57.5°	3150.8	2089.3	393.5	241.7	215.3	198.1	181.9	169.9	169.9	172.7	174.1
60°	3538.8	2395.8	474.1	242.1	215.7	192.1	171.3	157.9	156.0	157.4	157.9
62.5°	3924.0	2652.2	487.5	240.7	220.4	186.1	159.7	145.8	142.6	142.1	141.2
65°	4093.9	2604.5	399.5	234.3	225.5	182.4	150.5	134.3	128.7	126.8	126.8
67.5°	3817.0	2203.2	300.5	225.5	222.2	178.7	141.7	124.5	118.1	114.3	114.3
69°	3556.8	1959.7	269.9	219.4	213.9	172.7	136.1	119.4	111.6	107.4	106.0
70°	3355.9	1792.1	256.9	214.3	206.0	165.7	131.9	115.7	106.9	102.3	101.4
72.5°	2678.2	1406.0	225.0	194.9	175.5	139.3	117.1	104.2	95.8	90.7	89.3
75°	1543.5	762.0	186.6	169.4	141.2	108.3	99.1	90.7	84.3	79.6	78.2
77.5°	475.0	294.4	135.2	133.8	103.7	83.8	79.2	75.9	71.3	66.2	65.3
80°	200.0	150.0	91.7	90.3	69.0	58.3	56.9	56.5	54.6	50.5	49.1
82.5°	109.7	84.7	63.9	55.6	41.7	33.8	35.2	35.6	34.3	30.1	27.3
85°	53.7	46.3	31.0	25.0	19.0	12.0	11.6	13.9	13.0	9.3	10.2
87.5°	10.6	13.0	8.3	3.7	1.9	0.0	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)