

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: P323326

Luminaire Tested: **GLEON-SA2C-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8812 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

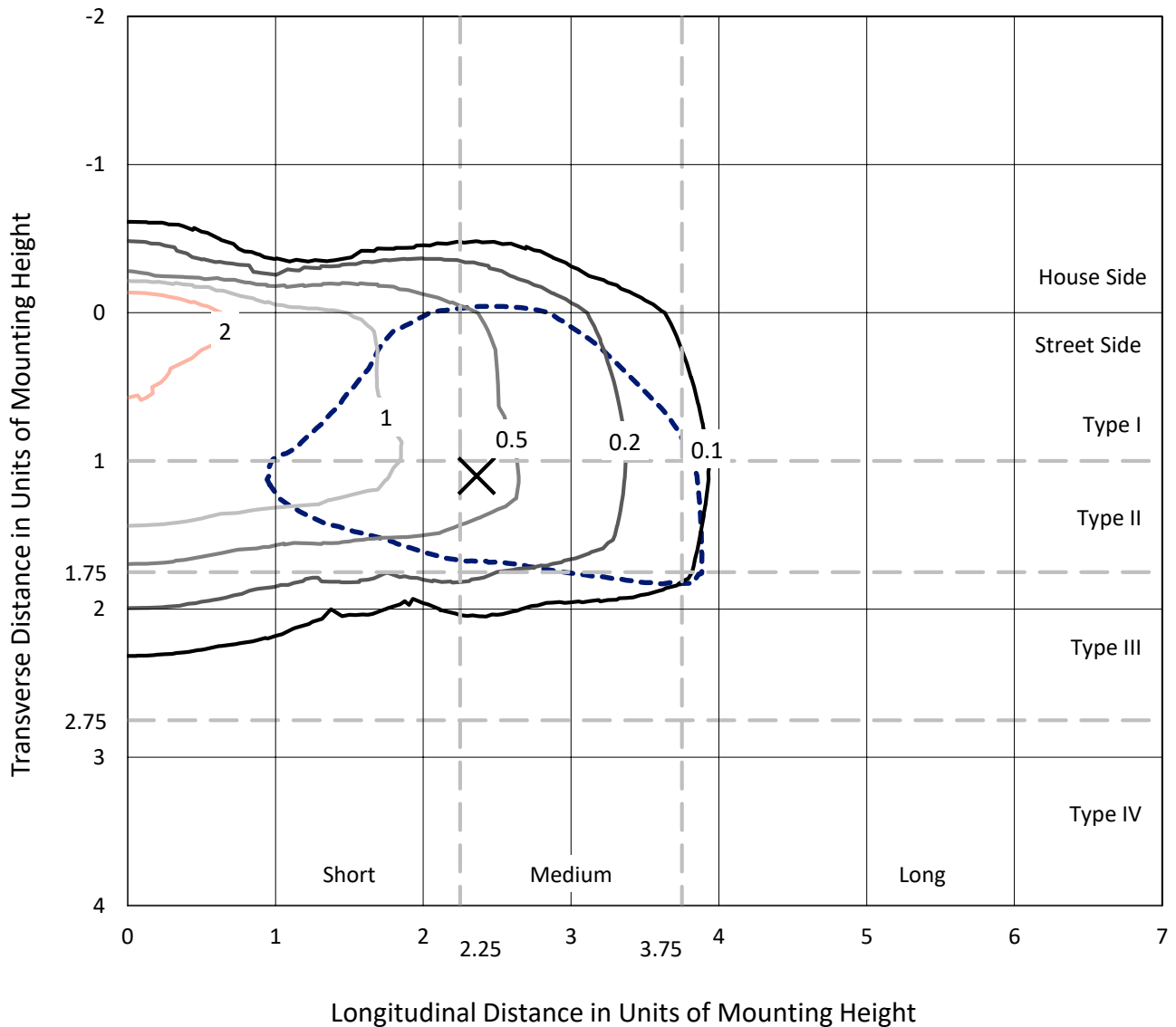
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

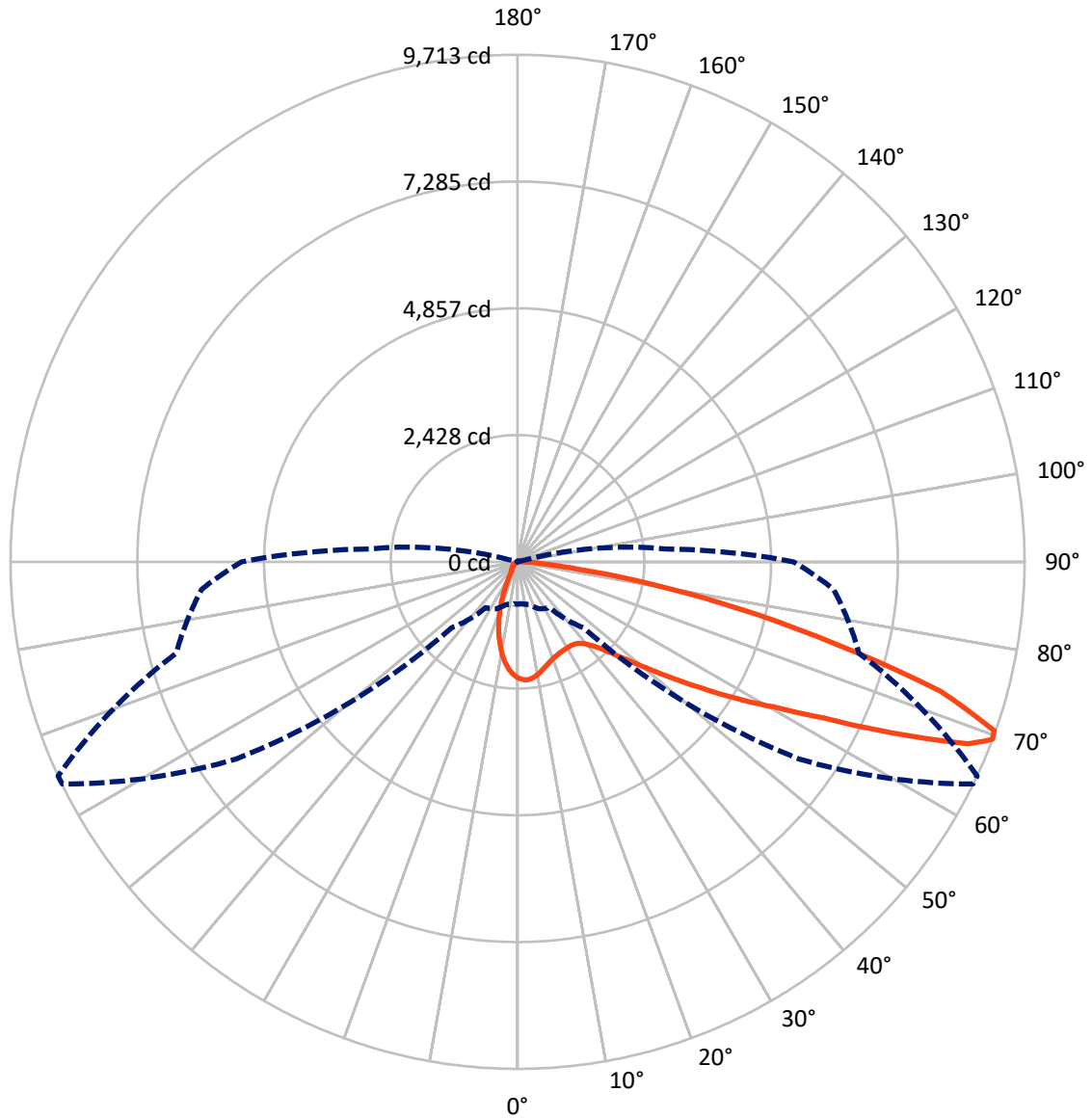
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1038.7	0.0	1038.7
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	7773.3	0.0	7773.3
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	8812.0	0.0	8812.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.2	2.1
10°-20°	407.6	4.6
20°-30°	564.6	6.4
30°-40°	787.2	8.9
40°-50°	1223.5	13.9
50°-60°	1964.3	22.3
60°-70°	2221.9	25.2
70°-80°	1304.9	14.8
80°-90°	151.8	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°	8812.0	100.0
0°-180°	8812.0	100.0

**Coefficient of Utilization**

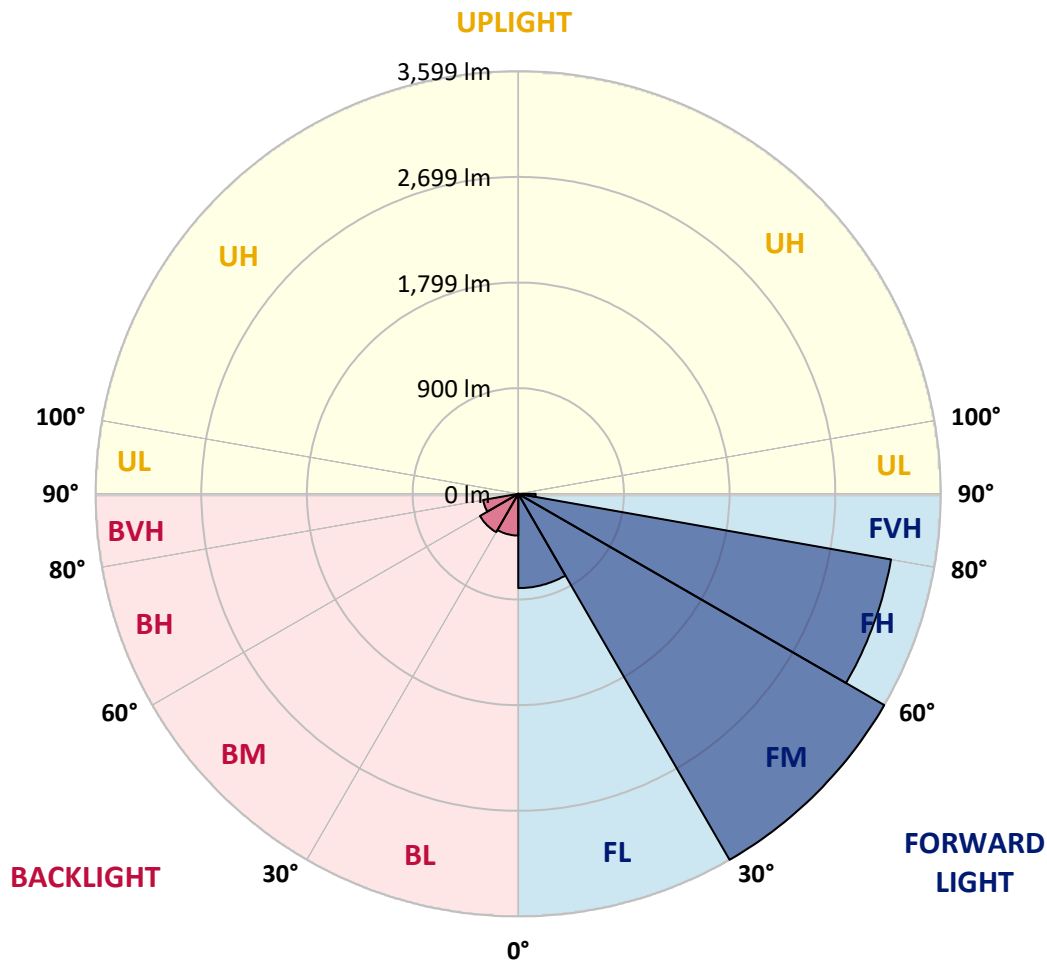


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.0	9.1			
FM (30°-60°)	3598.6	40.8			
FH (60°-80°)	3223.3	36.6			G2/5000
FVH (80°-90°)	148.4	1.7			G2/225
BL (0°-30°)	355.4	4.0	B1/500		
BM (30°-60°)	376.4	4.3	B1/1000		
BH (60°-80°)	303.5	3.4	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8
2.5°	2246.6	2241.0	2245.5	2255.1	2260.0	2260.0	2263.7	2259.2	2260.7	2249.9	2234.3
5°	2106.0	2097.4	2109.7	2136.9	2170.5	2199.2	2241.7	2264.1	2266.3	2266.7	2248.4
7.5°	1954.6	1946.8	1965.0	1997.1	2040.4	2093.7	2167.9	2232.8	2236.5	2271.6	2258.1
10°	1831.6	1826.0	1847.2	1881.5	1932.2	1991.9	2082.9	2173.1	2183.9	2261.5	2256.6
12.5°	1733.9	1729.4	1749.5	1789.1	1840.9	1906.9	2002.0	2106.7	2121.3	2238.7	2249.2
15°	1662.6	1661.9	1678.7	1716.7	1774.1	1835.7	1933.0	2045.2	2062.0	2214.1	2248.1
17.5°	1625.4	1626.5	1638.8	1671.2	1720.4	1781.6	1874.8	1993.4	2011.7	2192.1	2253.7
20°	1621.6	1622.8	1629.5	1647.7	1687.6	1741.7	1827.5	1949.8	1968.8	2175.7	2262.6
22.5°	1654.4	1653.7	1655.6	1653.7	1676.1	1717.1	1796.1	1916.2	1938.2	2164.9	2269.7
25°	1717.5	1716.3	1715.6	1701.8	1686.9	1708.9	1783.1	1897.2	1918.1	2157.1	2273.8
27.5°	1805.1	1804.3	1803.2	1780.5	1735.7	1721.9	1784.6	1890.1	1907.6	2150.7	2273.0
30°	1920.3	1925.5	1924.0	1892.3	1822.6	1761.8	1800.2	1886.4	1901.7	2138.4	2265.2
32.5°	2055.7	2066.1	2074.3	2040.4	1953.1	1840.9	1836.4	1890.5	1901.7	2129.1	2251.0
35°	2196.2	2209.7	2239.9	2227.9	2113.1	1959.8	1898.7	1915.1	1924.4	2134.3	2244.3
37.5°	2334.6	2350.6	2416.2	2450.9	2322.6	2117.2	1995.6	1975.9	1980.7	2166.0	2251.8
40°	2495.3	2519.5	2619.1	2675.0	2572.8	2327.9	2140.7	2080.3	2082.1	2235.8	2286.5
42.5°	2706.3	2731.3	2839.1	2926.7	2854.7	2594.1	2337.6	2239.9	2238.0	2366.3	2368.1
45°	2963.6	2989.7	3101.2	3198.5	3166.1	2909.5	2589.6	2472.9	2470.7	2572.1	2522.9
47.5°	3255.2	3280.9	3380.5	3480.8	3515.8	3277.9	2910.7	2791.0	2785.7	2858.1	2761.9
50°	3505.4	3522.2	3613.9	3748.9	3907.0	3730.6	3310.0	3194.8	3189.2	3238.0	3112.8
52.5°	3596.4	3606.1	3699.3	3888.3	4282.8	4343.6	3834.6	3686.2	3682.1	3703.4	3580.0
55°	3412.2	3429.7	3544.2	3824.6	4486.4	5036.4	4496.9	4294.8	4263.8	4218.0	4068.4
57.5°	2910.3	2938.3	3061.3	3434.2	4391.3	5586.0	5470.1	4983.1	4937.6	4657.2	4465.5
60°	2180.6	2214.9	2317.0	2719.4	3883.9	5781.8	6533.5	5750.1	5647.6	5007.0	4830.6
62.5°	1496.3	1513.5	1582.9	1845.0	2860.3	5461.1	7423.2	6777.4	6590.2	5387.3	5225.5
65°	1142.9	1148.8	1177.2	1267.4	1703.3	4436.1	7777.0	8132.8	7906.4	5842.2	5635.3
67.5°	921.0	916.2	955.3	1084.3	1140.6	2706.3	7364.3	9415.1	9309.2	6450.4	6047.7
69°	812.1	805.4	845.3	995.2	1071.3	1789.1	6583.5	9706.3	9713.0	6771.4	6076.0
70°	730.8	735.3	774.8	942.3	1047.8	1404.2	5837.7	9632.1	9685.0	6891.5	5906.0
72.5°	488.1	500.0	579.4	782.3	1007.5	1062.7	3524.8	8265.5	8469.1	6621.1	5067.0
75°	275.2	284.1	378.5	589.9	949.3	1012.0	1861.8	6089.4	6286.3	5536.8	3907.4
77.5°	135.0	139.8	214.0	380.7	793.9	964.3	1056.0	4136.3	4361.1	3613.9	2210.0
80°	57.0	59.7	107.0	234.9	567.5	920.3	784.2	2545.6	2573.6	1415.8	588.8
82.5°	22.0	22.7	45.1	146.5	360.6	717.4	655.9	1207.0	1177.9	266.6	134.2
85°	2.6	3.0	16.4	88.0	200.6	369.1	532.8	520.2	481.4	52.9	69.0
87.5°	0.0	0.0	1.1	26.8	59.7	173.0	277.0	215.9	194.6	17.2	35.8
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°	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8	2226.8
2.5°	2221.2	2217.5	2197.4	2168.3	2140.7	2106.4	2073.6	2053.8	2038.1	2027.7	2040.0
5°	2227.2	2210.8	2149.6	2071.3	1994.5	1908.0	1827.5	1759.2	1732.4	1702.5	1716.0
7.5°	2225.3	2194.4	2084.4	1944.9	1804.0	1658.2	1520.2	1413.9	1358.8	1304.7	1318.5
10°	2216.0	2163.8	1997.1	1790.5	1579.5	1369.9	1174.2	1025.4	942.3	866.9	877.7
12.5°	2195.5	2122.8	1894.2	1613.8	1331.5	1055.2	825.9	635.4	533.2	488.1	493.7
15°	2183.2	2082.9	1785.3	1434.8	1066.8	734.9	504.9	375.5	328.9	314.0	315.8
17.5°	2177.2	2044.5	1672.7	1230.1	796.1	468.0	326.3	287.9	277.8	275.2	275.9
20°	2171.2	2005.7	1556.8	1027.6	548.5	314.7	268.1	256.9	253.2	249.8	250.6
22.5°	2161.2	1968.4	1432.2	822.6	369.9	255.4	241.6	230.8	223.0	218.9	219.6
25°	2148.9	1929.3	1305.1	612.6	270.0	227.8	214.8	199.5	190.2	182.7	183.1
27.5°	2129.1	1881.2	1173.8	446.0	226.7	204.0	186.4	169.7	154.0	145.4	145.4
30°	2101.5	1826.7	1028.0	319.2	203.2	180.5	159.2	138.3	121.6	113.7	113.0
32.5°	2070.9	1770.0	880.7	242.0	184.6	158.5	134.2	112.2	97.3	91.0	90.6
35°	2044.8	1708.9	733.8	202.8	165.9	137.2	110.7	92.1	80.2	74.9	74.6
37.5°	2028.1	1647.7	590.6	181.2	149.1	117.5	92.8	76.1	67.5	63.4	63.0
40°	2025.5	1602.2	459.8	164.8	133.5	99.9	77.6	64.5	56.7	52.2	51.8
42.5°	2059.4	1576.1	352.7	151.0	117.5	84.6	66.0	55.2	47.0	42.5	42.1
45°	2148.5	1584.3	271.5	138.7	101.4	71.6	55.9	45.9	38.4	35.1	34.3
47.5°	2311.1	1641.0	215.9	126.4	86.1	60.8	47.7	38.0	31.7	28.3	28.0
50°	2600.4	1774.1	180.5	113.0	72.0	51.8	39.5	30.9	25.7	22.7	22.4
52.5°	2984.5	2011.3	161.1	99.9	59.7	44.0	32.4	24.6	20.1	17.9	17.5
55°	3408.1	2298.4	148.4	85.8	48.8	36.5	25.7	19.4	15.7	13.8	13.1
57.5°	3821.6	2547.1	136.5	72.0	40.6	29.8	20.5	15.3	12.3	10.4	10.1
60°	4201.6	2775.7	122.7	57.8	33.2	23.5	16.0	11.9	9.7	7.8	7.8
62.5°	4608.4	2952.4	103.7	45.1	27.2	17.9	13.1	10.8	7.8	6.7	6.3
65°	5039.4	3083.7	81.3	35.1	21.3	13.4	10.8	11.2	6.3	4.8	4.5
67.5°	5357.8	3057.6	60.0	27.6	16.4	10.4	10.4	11.9	5.6	3.7	3.4
69°	5287.7	2845.4	50.3	23.9	14.2	8.9	9.7	11.9	5.2	3.4	3.0
70°	5084.5	2610.5	44.4	21.3	12.7	8.2	9.3	11.6	4.8	3.4	3.0
72.5°	4234.4	1966.2	34.7	16.0	10.1	6.7	7.8	10.1	4.8	3.4	2.6
75°	3185.1	1258.5	26.5	11.6	7.5	5.2	6.0	7.5	4.8	3.0	2.6
77.5°	1733.1	453.8	19.0	7.8	5.2	4.1	4.1	5.6	4.5	2.2	1.5
80°	445.6	114.1	11.9	5.2	4.1	3.0	2.6	3.7	2.6	0.4	0.0
82.5°	110.0	25.7	6.3	3.7	3.0	1.1	1.1	1.9	1.1	0.0	0.0
85°	60.4	12.7	4.1	2.6	1.5	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	30.9	3.7	1.1	0.7	0.4	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)