

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: P647852

Luminaire Tested: **GALN-SA3A-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647852
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-SA3A-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10938.5 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

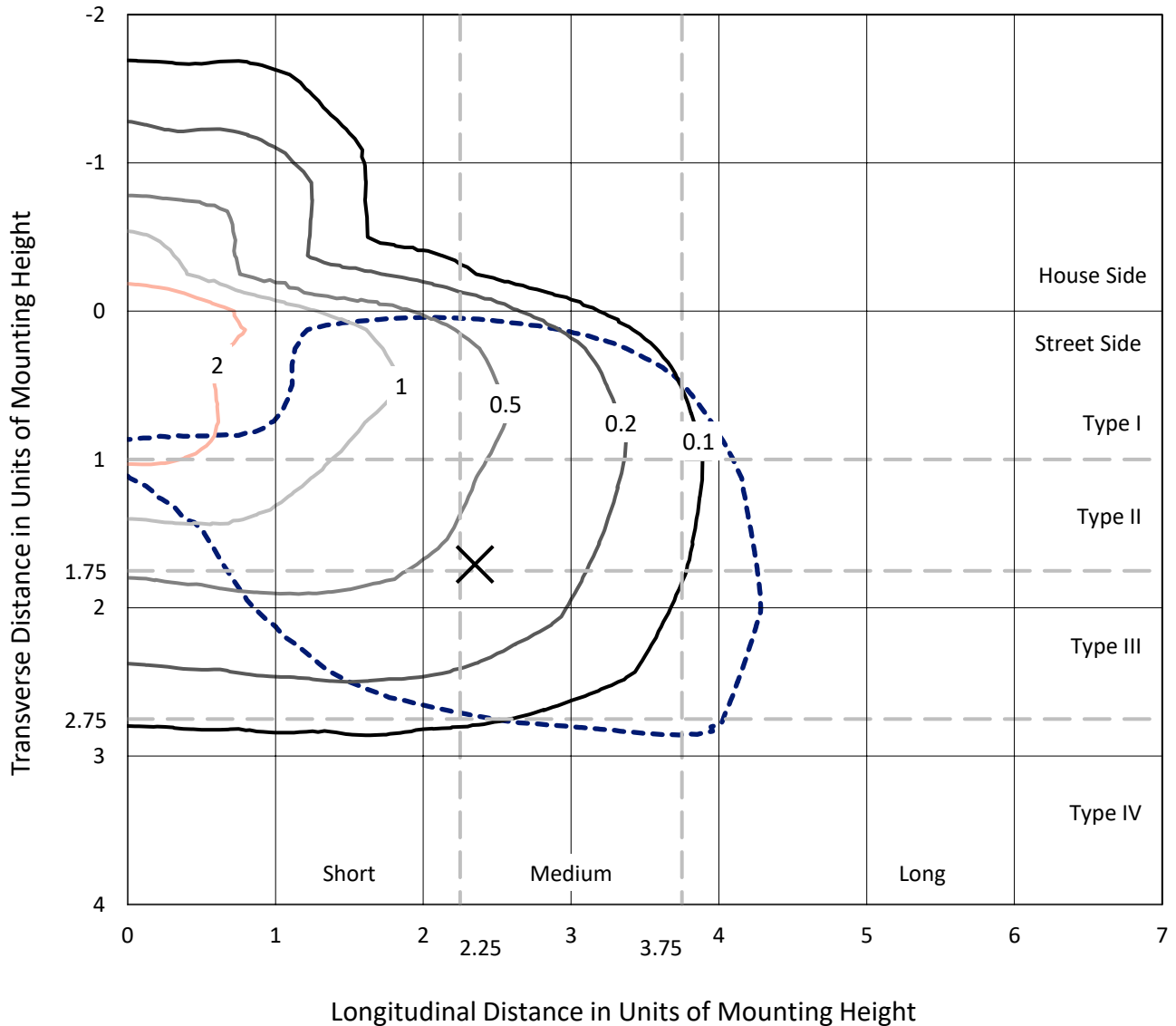
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

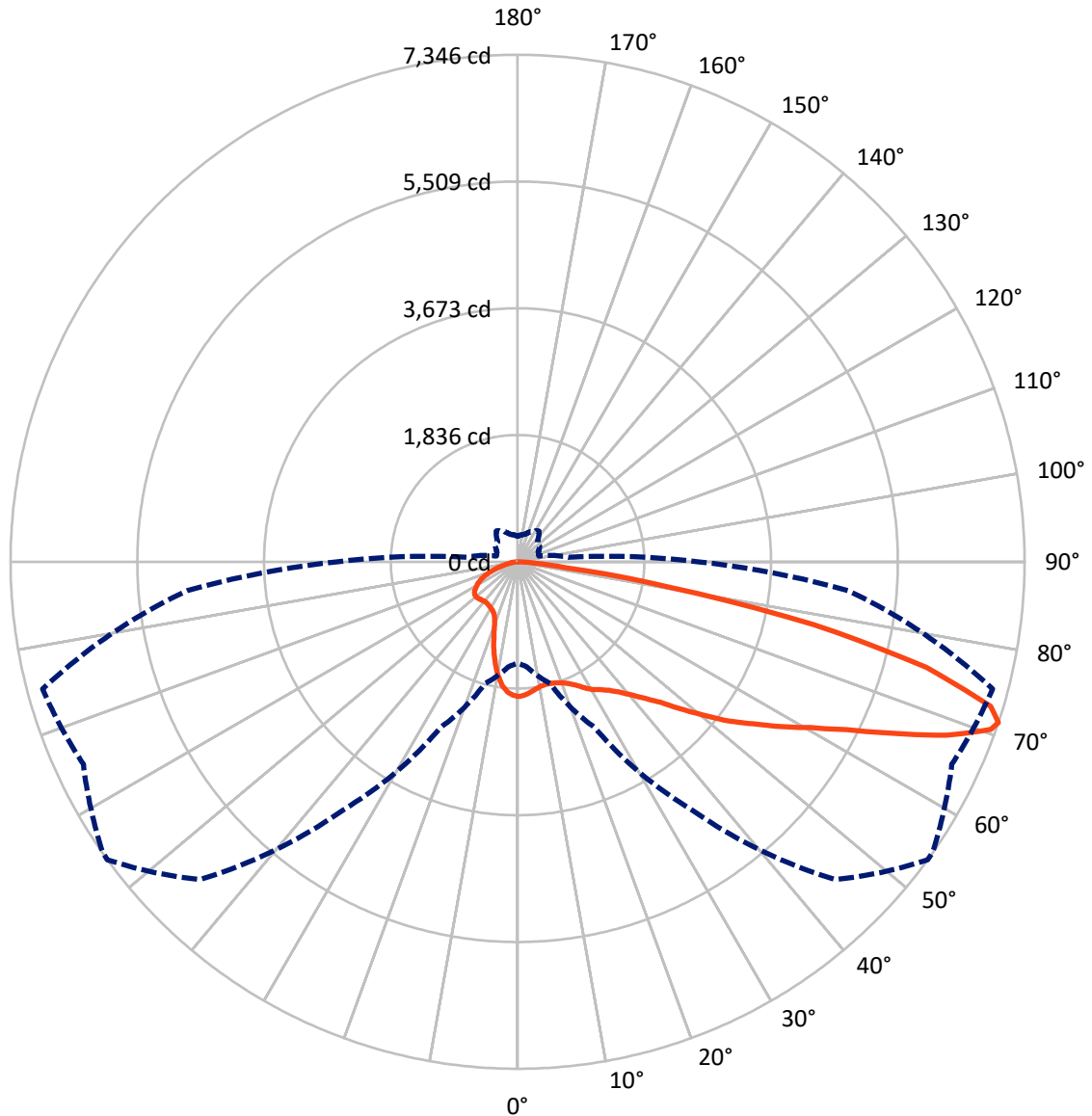
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.9	0.0	1974.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8963.6	0.0	8963.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	10938.5	0.0	10938.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.6
10°-20°	459.2	4.2
20°-30°	764.6	7.0
30°-40°	1130.6	10.3
40°-50°	1592.5	14.6
50°-60°	2132.5	19.5
60°-70°	2687.8	24.6
70°-80°	1835.8	16.8
80°-90°	161.4	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°	10938.5	100.0
0°-180°	10938.5	100.0

Coefficient of Utilization

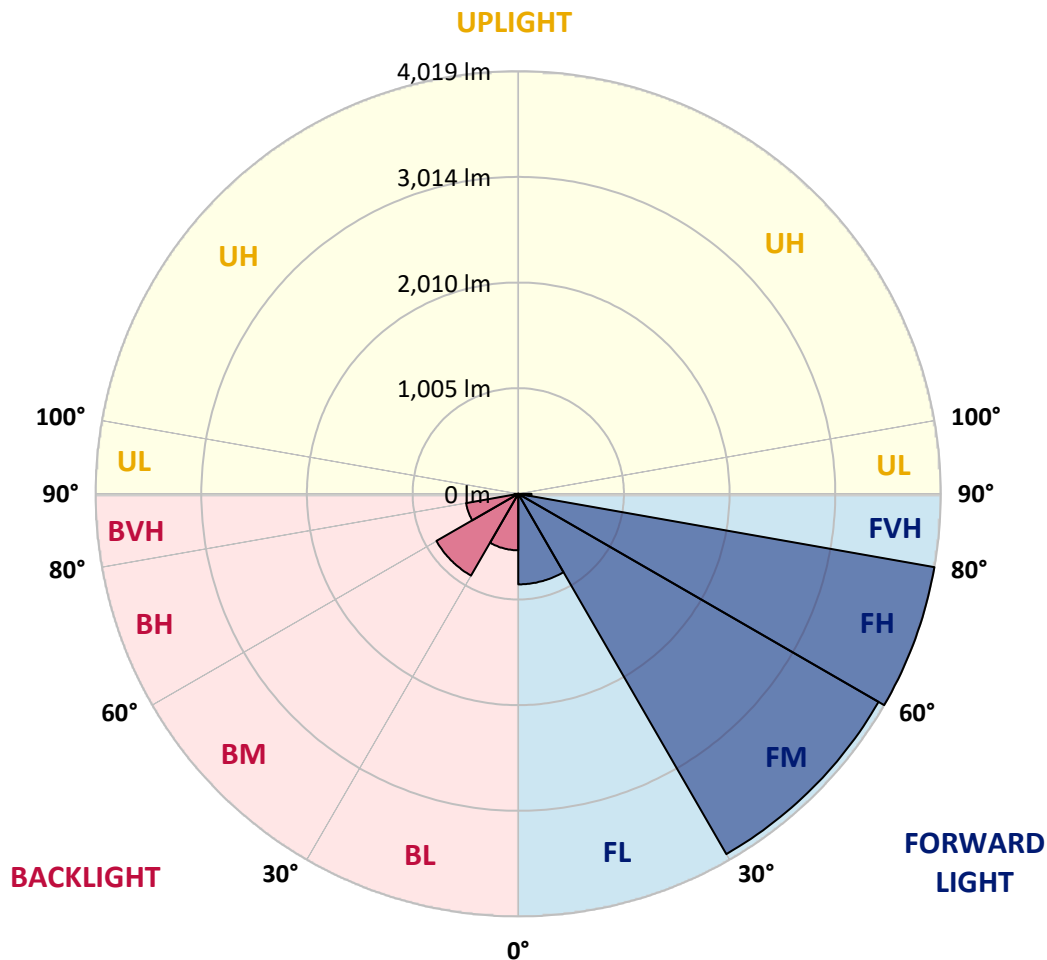


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.0	7.9			
FM (30°-60°)	3957.2	36.2			
FH (60°-80°)	4019.2	36.7			G2/5000
FVH (80°-90°)	126.2	1.2			G2/225
BL (0°-30°)	536.7	4.9	B2/1000		
BM (30°-60°)	898.5	8.2	B1/1000		
BH (60°-80°)	504.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	35.3	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1885.4	1894.3	1896.7	1902.5	1915.0	1925.0	1935.0	1933.9	1948.0	1954.0	1959.3
5°	1801.5	1803.9	1812.7	1824.5	1846.4	1874.2	1901.4	1902.0	1936.8	1964.6	1978.2
7.5°	1740.1	1747.7	1753.7	1766.1	1789.1	1819.2	1862.4	1865.9	1928.0	1982.9	2011.8
10°	1699.9	1708.7	1715.2	1730.6	1753.7	1787.4	1834.0	1840.5	1921.5	2011.8	2062.7
12.5°	1663.2	1672.1	1678.0	1698.1	1728.2	1769.6	1822.2	1829.9	1923.8	2045.5	2118.2
15°	1685.7	1692.8	1690.4	1696.4	1716.4	1763.7	1826.9	1834.6	1932.7	2078.0	2173.1
17.5°	1785.6	1791.5	1772.0	1749.5	1740.1	1774.9	1841.7	1850.0	1950.4	2111.8	2229.3
20°	1932.7	1948.7	1906.1	1855.9	1810.4	1815.1	1872.4	1881.3	1975.2	2145.4	2286.6
22.5°	2124.1	2135.9	2084.0	2001.2	1917.3	1874.2	1918.5	1923.8	2012.5	2189.1	2349.2
25°	2349.2	2356.4	2284.2	2177.9	2056.8	1975.2	1981.7	1991.2	2073.9	2238.8	2404.7
27.5°	2567.8	2590.3	2507.0	2377.0	2217.5	2081.6	2068.6	2074.5	2140.6	2266.6	2443.2
30°	2827.3	2825.5	2737.4	2586.8	2382.4	2197.4	2150.7	2149.5	2176.7	2280.1	2471.0
32.5°	3034.0	3058.2	2972.0	2807.8	2570.8	2317.4	2207.4	2205.1	2204.5	2303.7	2512.3
35°	3269.2	3272.7	3193.5	3028.1	2774.6	2468.0	2286.6	2274.8	2261.2	2354.6	2568.5
37.5°	3479.6	3496.1	3423.4	3237.9	2974.9	2624.5	2395.4	2387.7	2346.3	2442.6	2658.3
40°	3643.8	3656.2	3612.4	3435.8	3172.3	2793.6	2533.6	2519.4	2469.2	2586.8	2778.2
42.5°	3697.6	3723.0	3740.1	3653.2	3399.2	2993.9	2703.8	2686.0	2647.6	2805.4	2916.4
45°	3701.7	3741.9	3832.3	3836.4	3627.2	3233.7	2902.3	2889.9	2886.9	3085.4	3110.9
47.5°	3670.4	3711.2	3863.0	3945.1	3830.5	3476.0	3188.8	3169.3	3171.2	3431.7	3328.8
50°	3594.8	3643.2	3827.5	4014.8	3989.5	3727.7	3491.4	3484.9	3521.5	3827.0	3555.1
52.5°	3452.3	3510.9	3790.9	4058.6	4107.6	3944.5	3835.2	3816.9	3909.7	4255.9	3802.7
55°	3058.2	3146.3	3656.8	4082.8	4219.9	4151.9	4144.8	4177.9	4300.9	4723.9	4075.1
57.5°	2852.6	2918.8	3365.5	4086.9	4361.7	4393.0	4506.5	4514.7	4729.8	5220.8	4382.9
60°	2740.4	2798.9	3206.0	4059.8	4559.6	4691.4	4876.3	4905.9	5148.7	5759.0	4702.0
62.5°	2642.3	2692.5	3110.2	3965.8	4783.0	5133.9	5355.5	5369.7	5624.4	6353.4	5016.9
65°	2411.2	2468.6	2917.6	3871.9	4975.6	5687.0	5991.3	5974.7	6130.7	6866.3	5214.3
67.5°	2099.9	2172.6	2557.8	3547.5	5070.7	6291.4	6707.4	6686.7	6630.6	7202.5	5271.0
70°	1702.2	1741.2	2097.5	2986.8	4690.8	6608.7	7272.8	7251.0	6940.2	7246.8	5002.7
71°	1464.8	1525.6	1826.3	2653.0	4374.7	6511.8	7345.5	7339.6	6940.7	7124.5	4800.7
72.5°	1143.3	1180.5	1446.4	2055.6	3718.2	5961.1	7165.9	7188.3	6790.1	6784.8	4384.2
75°	723.2	739.8	907.6	1210.0	2040.2	4221.6	6117.1	6177.9	6029.1	5553.4	3260.3
77.5°	420.1	441.4	543.6	713.2	881.6	2291.4	4377.0	4443.2	4189.1	3057.7	1334.7
80°	244.6	268.3	358.1	414.2	404.7	850.3	2228.7	2341.6	1813.9	772.3	374.6
82.5°	135.9	151.8	251.7	252.3	215.6	277.7	701.3	733.8	517.6	311.4	153.0
85°	98.7	111.7	162.5	147.1	103.4	119.3	244.1	255.8	209.1	131.2	49.6
87.5°	34.8	49.6	89.2	70.9	28.3	24.8	70.3	57.3	53.2	36.6	11.2
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°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1962.2	1963.4	1957.5	1946.9	1936.2	1922.7	1907.3	1895.5	1890.2	1889.5	1889.0
5°	1983.5	1986.5	1964.0	1930.9	1894.3	1849.4	1811.0	1767.2	1756.0	1738.3	1743.6
7.5°	2017.8	2016.0	1971.7	1901.4	1815.7	1720.6	1640.2	1593.6	1545.1	1531.5	1532.1
10°	2066.8	2055.6	1971.7	1841.1	1698.1	1556.9	1444.6	1373.8	1335.3	1303.5	1291.6
12.5°	2118.8	2090.5	1952.8	1756.6	1546.9	1373.8	1253.2	1157.5	1132.7	1106.7	1107.2
15°	2168.4	2121.1	1915.5	1637.9	1383.8	1178.2	1061.2	1003.9	996.2	999.1	998.6
17.5°	2213.3	2143.0	1858.8	1505.5	1193.5	1010.4	948.3	952.4	973.1	987.9	989.7
20°	2258.8	2156.0	1774.4	1328.2	1013.9	908.7	911.1	943.6	974.9	995.0	997.9
22.5°	2301.9	2161.9	1675.1	1156.9	883.9	865.6	900.4	935.3	966.1	985.6	988.5
25°	2330.4	2148.3	1534.4	977.9	820.1	850.3	886.9	916.4	942.4	962.5	967.2
27.5°	2338.0	2104.6	1360.1	833.1	790.6	835.5	869.1	891.0	911.1	930.0	933.6
30°	2333.9	2040.2	1168.7	748.0	773.4	818.3	844.3	860.3	884.5	899.3	902.3
32.5°	2327.4	1965.2	969.0	702.5	759.3	802.4	817.8	831.9	831.3	825.4	829.6
35°	2329.7	1875.4	807.1	675.3	746.8	790.6	803.6	785.8	735.0	732.7	730.3
37.5°	2342.1	1786.7	689.5	656.5	740.3	788.8	795.9	714.3	669.5	648.8	643.5
40°	2374.1	1683.4	612.1	642.3	739.8	802.4	761.0	678.3	592.0	551.9	548.9
42.5°	2416.6	1581.7	564.9	633.4	746.8	823.1	746.8	627.5	533.5	509.9	506.4
45°	2479.8	1465.3	538.9	629.3	757.5	830.8	742.1	590.2	509.9	491.0	491.0
47.5°	2551.3	1354.3	524.7	626.3	771.1	825.4	700.2	578.5	498.7	501.0	512.2
50°	2622.2	1258.0	514.0	619.8	782.8	822.5	683.0	577.9	501.7	531.7	551.9
52.5°	2704.3	1190.0	501.0	609.2	782.8	803.6	677.7	589.7	509.9	518.7	527.7
55°	2803.6	1168.7	484.5	586.2	768.7	756.3	674.8	606.8	515.8	495.2	498.7
57.5°	2934.8	1203.0	468.5	557.2	736.2	707.3	673.5	611.5	502.2	485.1	481.5
60°	3087.2	1271.0	463.8	527.7	691.9	665.3	666.5	598.0	483.3	465.6	468.5
62.5°	3194.2	1311.7	460.9	505.2	643.5	619.2	649.3	581.4	475.0	459.7	462.7
65°	3194.2	1262.0	433.7	470.9	580.8	563.7	628.7	560.7	464.4	446.7	443.7
67.5°	3073.0	1117.3	392.4	419.5	511.7	500.4	599.7	535.9	448.4	434.9	427.8
70°	2757.5	847.3	340.4	359.2	424.2	434.3	562.5	502.2	421.9	405.4	394.7
71°	2618.7	738.0	318.4	328.5	390.6	405.4	544.7	488.0	410.1	386.4	367.5
72.5°	2351.0	621.5	285.4	289.6	333.9	360.4	507.5	460.9	387.6	353.9	332.6
75°	1786.2	453.7	229.8	227.5	247.0	286.0	429.6	410.6	339.7	294.3	281.8
77.5°	771.6	247.0	171.9	173.7	167.8	216.8	337.9	352.7	291.3	239.3	228.1
80°	234.0	142.4	117.6	120.0	112.3	145.3	238.1	276.6	234.0	186.1	170.8
82.5°	120.0	85.1	80.3	79.2	71.5	82.1	144.2	189.1	167.2	116.4	102.8
85°	52.0	45.5	39.6	38.4	33.7	29.5	51.4	94.5	88.6	65.0	62.0
87.5°	13.0	11.8	7.7	7.1	4.1	0.6	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)