

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: P452681

Luminaire Tested: **GALN-SA3C-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15394 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

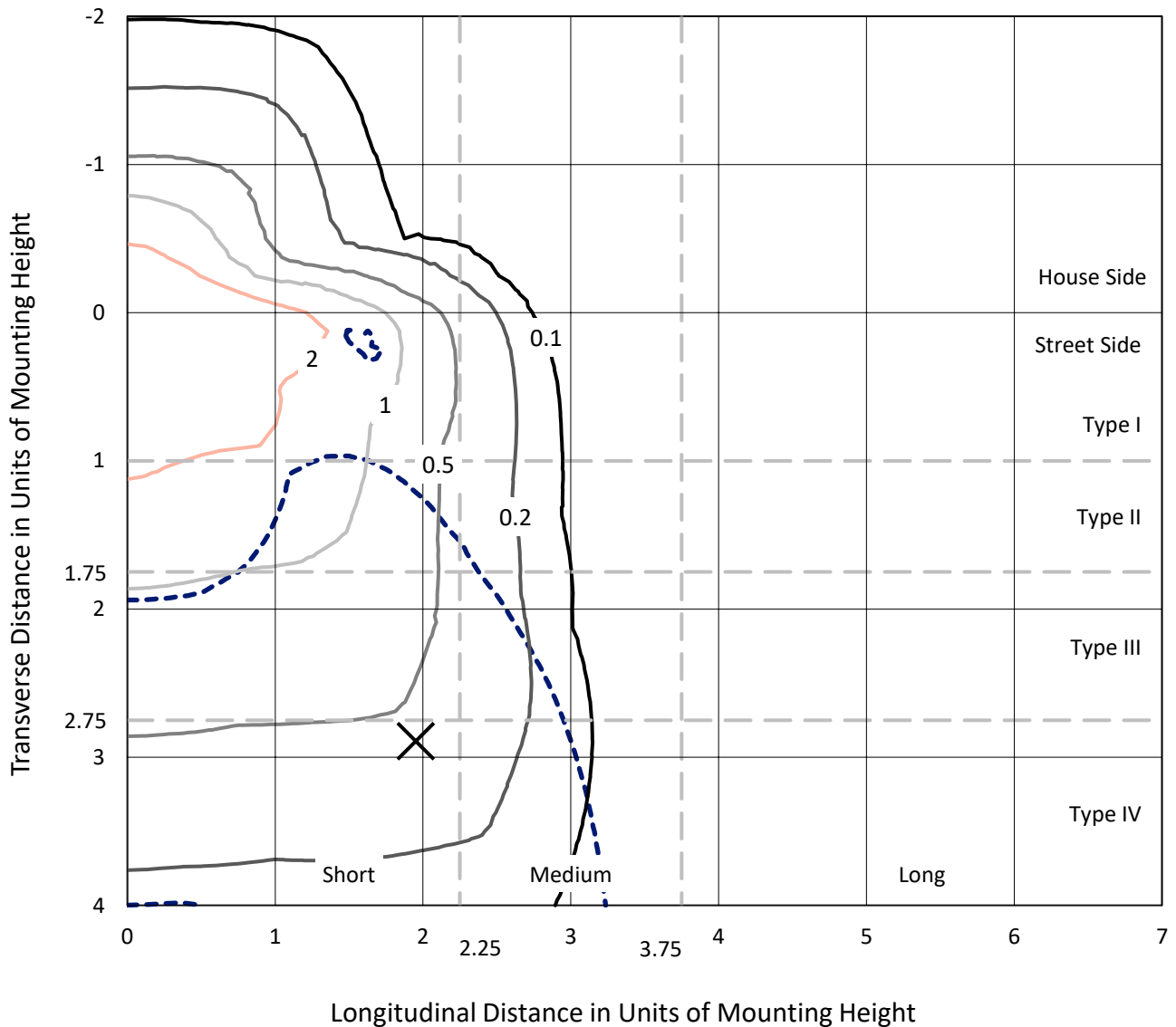
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

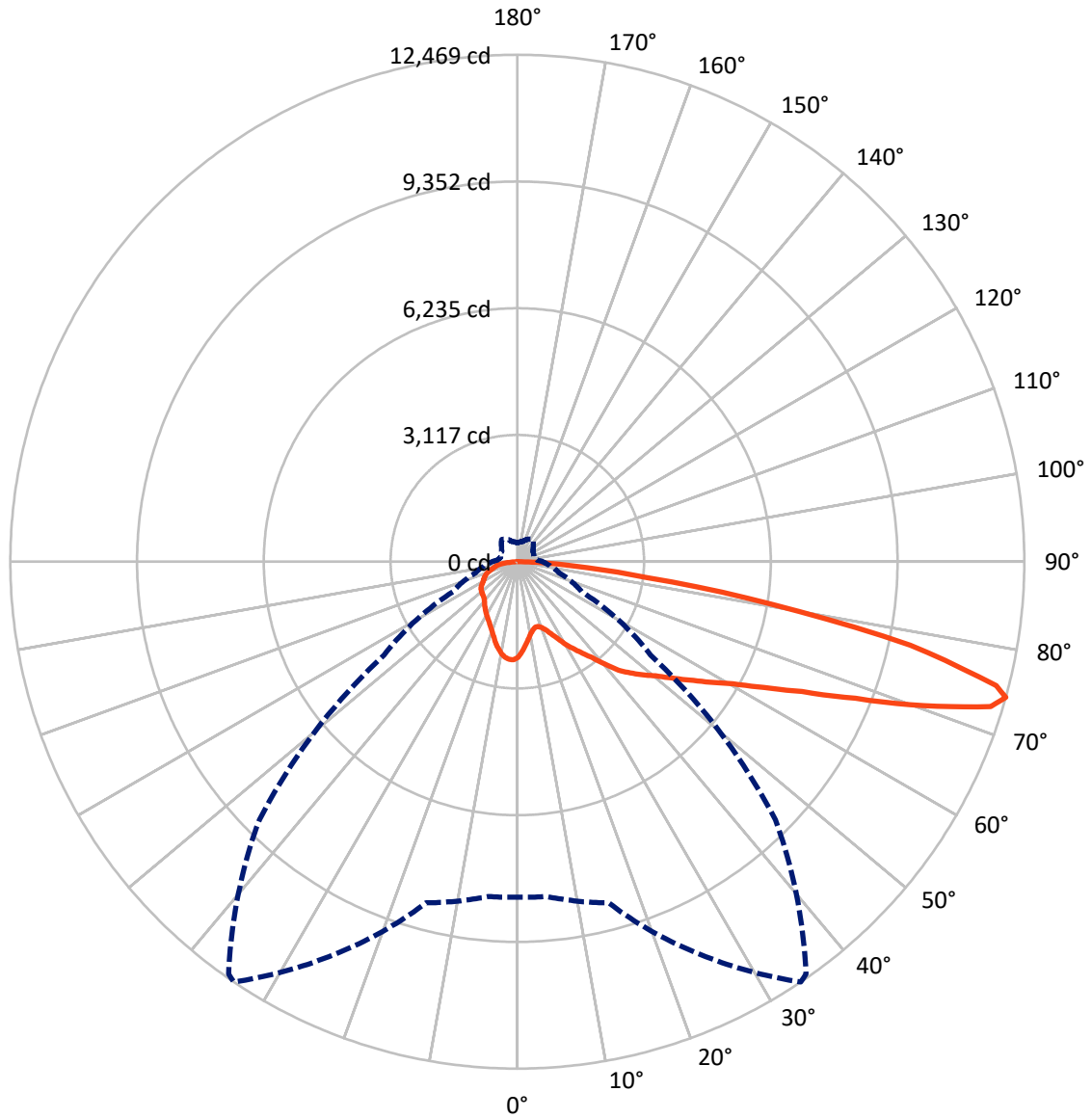
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3275.9	0.0	3275.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	12118.0	0.0	12118.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	15394.0	0.0	15394.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	1.4
10°-20°	585.1	3.8
20°-30°	964.8	6.3
30°-40°	1445.1	9.4
40°-50°	2100.8	13.6
50°-60°	2934.3	19.1
60°-70°	3673.6	23.9
70°-80°	3037.7	19.7
80°-90°	438.9	2.9
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°	15394.0	100.0
0°-180°	15394.0	100.0



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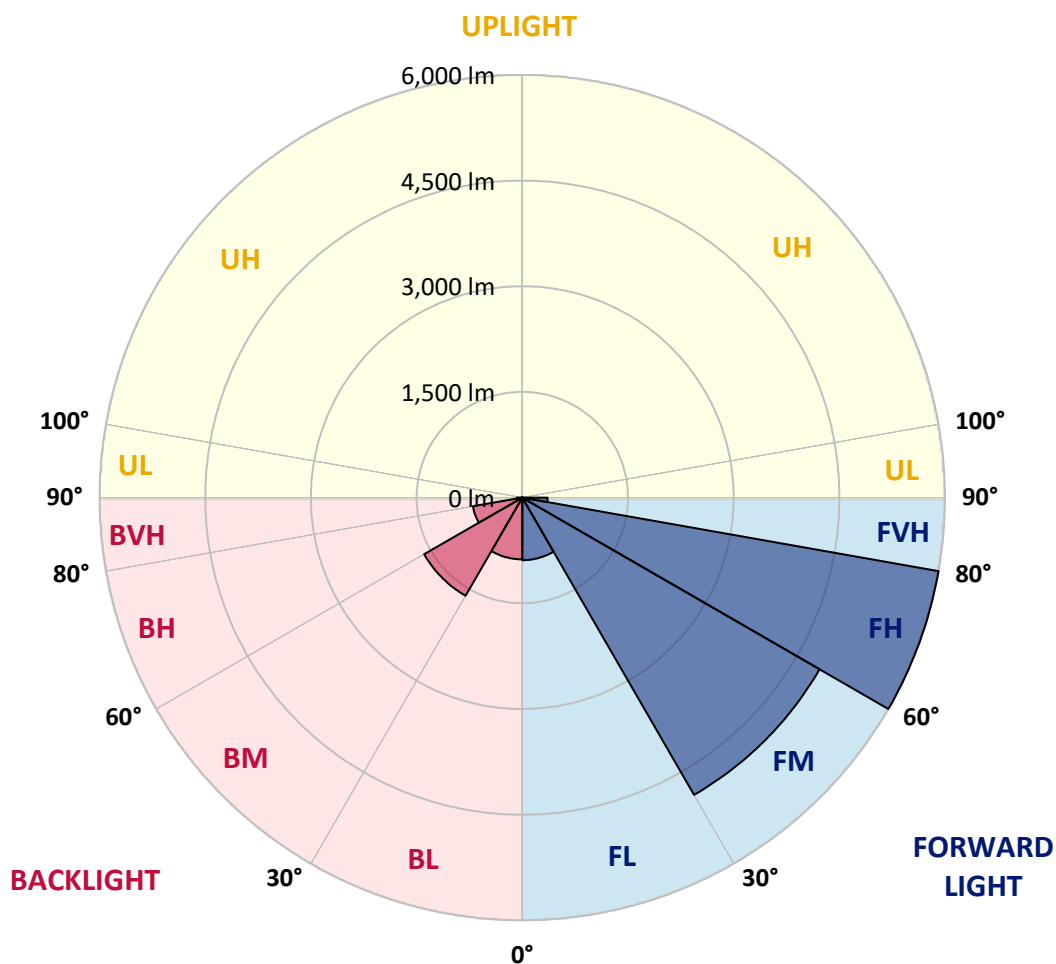
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.4	5.8			
FM (30°-60°)	4871.3	31.6			
FH (60°-80°)	5999.8	39.0			G3/7500
FVH (80°-90°)	359.6	2.3			G3/500
BL (0°-30°)	876.3	5.7	B2/1000		
BM (30°-60°)	1608.8	10.5	B2/2500		
BH (60°-80°)	711.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	79.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4
2.5°	2172.1	2183.2	2189.2	2210.5	2215.6	2222.4	2240.3	2264.2	2294.9	2322.2	2346.1
5°	1991.3	2008.4	2018.6	2037.4	2074.0	2077.5	2125.2	2179.8	2242.1	2300.0	2347.8
7.5°	1819.9	1838.7	1847.2	1881.3	1929.9	1937.6	2007.5	2093.7	2197.7	2285.5	2358.9
10°	1691.1	1700.5	1719.3	1744.9	1802.9	1808.0	1899.2	2014.4	2149.1	2278.7	2377.6
12.5°	1621.2	1626.3	1630.6	1657.9	1715.0	1722.7	1818.2	1948.7	2110.7	2283.8	2408.4
15°	1631.4	1633.1	1614.4	1619.5	1665.5	1676.6	1771.3	1905.2	2086.8	2296.6	2454.4
17.5°	1717.6	1711.6	1665.5	1641.7	1674.1	1679.2	1761.9	1888.1	2075.8	2320.5	2502.2
20°	1853.2	1844.6	1765.3	1712.5	1731.2	1735.5	1792.6	1900.9	2086.8	2359.7	2576.4
22.5°	2022.0	2018.6	1898.4	1834.4	1833.6	1833.6	1863.4	1947.0	2120.1	2413.5	2654.0
25°	2258.3	2240.3	2083.4	2000.7	1977.7	1976.0	1972.6	2022.9	2162.7	2470.6	2746.1
27.5°	2500.5	2469.8	2329.9	2202.8	2153.4	2147.4	2125.2	2130.3	2217.3	2535.4	2851.0
30°	2717.9	2698.3	2567.0	2426.3	2367.4	2353.8	2292.4	2264.2	2308.6	2652.3	3018.1
32.5°	2884.2	2872.3	2769.9	2642.0	2555.0	2552.5	2462.9	2439.9	2451.0	2793.8	3209.1
35°	3019.0	3023.2	2971.2	2860.3	2760.6	2746.1	2686.4	2657.4	2625.0	2998.5	3449.6
37.5°	3203.2	3212.6	3209.1	3113.6	2991.7	2995.1	2981.4	2933.7	2847.6	3227.1	3716.6
40°	3406.1	3413.0	3412.1	3375.4	3311.5	3314.9	3309.8	3255.2	3126.4	3517.9	4013.3
42.5°	3686.7	3654.3	3569.9	3606.6	3644.1	3660.3	3695.2	3643.2	3466.7	3828.3	4292.2
45°	4000.6	3939.2	3748.1	3765.2	3904.2	3934.9	4127.6	4056.0	3836.0	4184.8	4620.6
47.5°	4198.4	4137.9	3976.7	3973.3	4157.5	4187.3	4528.4	4502.0	4172.0	4569.4	5021.4
50°	4374.9	4366.4	4184.8	4228.3	4408.2	4452.5	4965.1	4940.4	4507.1	5023.1	5458.0
52.5°	4636.8	4567.7	4422.7	4512.2	4750.2	4808.2	5398.3	5325.8	4815.0	5423.9	5881.9
55°	4754.4	4738.2	4729.7	4807.3	5133.9	5175.7	5819.6	5653.3	5077.7	5763.3	6204.2
57.5°	5069.1	5039.3	5123.7	5176.6	5585.9	5649.9	6259.7	5995.3	5307.9	6032.8	6361.2
60°	5476.8	5460.6	5538.2	5633.7	6090.8	6188.0	6761.1	6287.0	5493.0	6168.4	6275.0
62.5°	6085.7	6084.0	6069.5	6274.2	6806.3	6895.9	7336.8	6570.9	5522.0	6066.9	5829.8
65°	6959.0	6928.3	6802.1	7025.5	7696.7	7801.6	7936.3	6729.6	5347.2	5545.9	4908.8
67.5°	7872.3	7870.6	7768.3	8058.3	8975.0	9083.3	8685.9	6694.6	4861.9	4492.6	3486.3
70°	8629.6	8593.0	8723.4	9496.1	10608.2	10733.5	9341.7	6282.7	3872.6	2966.9	2071.5
72.5°	8811.3	8813.0	9084.2	10604.8	12176.5	12196.1	9578.0	5092.2	2591.7	1636.6	1036.2
74°	8251.8	8266.3	8686.8	10660.2	12469.0	12380.3	8974.2	4002.3	1752.5	1068.6	747.1
75°	7532.1	7440.8	8048.9	10290.9	12165.4	12069.9	8267.2	3211.7	1337.2	853.7	654.1
77.5°	4027.0	4120.0	5058.0	7679.6	9883.3	9773.3	5605.6	1540.2	722.3	594.4	470.8
80°	1433.6	1581.1	2222.4	4018.5	6336.4	6370.5	2675.3	706.1	508.3	438.3	332.6
82.5°	585.0	601.2	954.3	1783.2	3217.7	3248.4	1092.5	419.6	363.3	301.9	198.7
85°	228.6	235.4	422.1	801.6	1373.0	1462.6	377.8	221.7	223.4	173.1	101.5
87.5°	76.8	87.0	173.1	266.9	466.5	457.1	110.0	65.7	80.2	75.0	31.6
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°	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4
2.5°	2358.0	2374.2	2385.3	2397.3	2408.4	2411.8	2409.2	2416.9	2417.7	2418.6	2419.4
5°	2371.7	2393.9	2415.2	2427.1	2432.2	2428.0	2413.5	2405.8	2399.0	2393.9	2395.6
7.5°	2390.4	2422.0	2441.6	2446.7	2433.1	2413.5	2377.6	2349.5	2331.6	2319.7	2318.8
10°	2419.4	2450.1	2466.3	2451.8	2414.3	2366.6	2310.3	2257.4	2217.3	2205.4	2204.5
12.5°	2456.1	2491.1	2490.2	2447.6	2381.9	2296.6	2205.4	2144.0	2089.4	2062.1	2073.2
15°	2503.9	2530.3	2505.6	2428.8	2324.8	2207.9	2095.4	2011.8	1950.4	1921.4	1923.1
17.5°	2559.3	2582.3	2516.7	2395.6	2244.6	2094.5	1964.0	1884.7	1836.1	1814.8	1813.1
20°	2628.4	2635.2	2516.7	2337.6	2141.4	1962.3	1837.8	1782.4	1755.1	1744.0	1747.4
22.5°	2702.6	2688.9	2503.0	2255.7	2005.8	1824.2	1740.6	1715.9	1702.2	1700.5	1702.2
25°	2786.1	2747.8	2474.9	2144.8	1864.3	1704.8	1656.2	1660.4	1663.0	1663.0	1669.0
27.5°	2888.5	2811.7	2428.0	2005.0	1698.8	1593.9	1580.3	1610.1	1623.8	1626.3	1630.6
30°	3023.2	2881.7	2350.4	1830.1	1558.1	1494.1	1518.0	1558.1	1573.4	1582.8	1581.1
32.5°	3183.6	2958.4	2245.5	1655.3	1444.7	1424.2	1453.2	1494.1	1511.2	1516.3	1509.5
35°	3372.0	3045.4	2107.3	1491.6	1345.7	1357.7	1391.8	1404.6	1419.9	1419.9	1423.3
37.5°	3575.0	3115.3	1938.4	1341.5	1269.0	1312.5	1337.2	1325.3	1318.5	1309.9	1314.2
40°	3781.4	3167.4	1719.3	1193.1	1192.2	1265.6	1272.4	1238.3	1211.0	1202.5	1198.2
42.5°	3961.3	3199.8	1521.4	1078.0	1119.7	1219.5	1224.6	1170.1	1126.6	1101.0	1092.5
45°	4173.7	3237.3	1327.8	982.4	1052.4	1182.9	1195.6	1122.3	1058.3	1004.6	991.0
47.5°	4464.5	3322.6	1175.2	908.2	1003.8	1159.8	1177.7	1083.1	998.6	928.7	917.6
50°	4792.8	3439.4	1056.6	857.9	966.2	1139.4	1161.5	1043.0	943.2	865.6	857.1
52.5°	5093.9	3502.5	954.3	812.7	929.6	1101.8	1140.2	1014.0	888.6	802.5	794.8
55°	5258.5	3400.2	853.7	768.4	879.3	1053.2	1110.4	973.9	835.8	769.2	758.2
57.5°	5280.6	3188.7	762.4	720.6	826.4	993.5	1054.9	925.3	801.6	746.2	736.8
60°	5109.2	2873.1	691.6	681.4	772.7	926.2	992.7	882.7	766.7	720.6	711.2
62.5°	4682.8	2530.3	642.2	645.6	718.1	855.4	946.6	841.7	733.4	692.5	684.0
65°	3949.4	2088.5	594.4	608.9	669.5	799.9	904.8	807.6	700.2	671.2	663.5
67.5°	2743.5	1507.8	555.2	570.5	623.4	743.7	856.2	770.9	662.6	647.3	635.3
70°	1518.9	927.9	509.1	527.0	575.7	680.5	801.6	715.5	608.1	601.2	584.2
72.5°	798.2	591.0	457.1	476.7	510.8	599.5	718.1	655.0	554.3	525.3	503.2
74°	623.4	484.4	422.1	442.6	465.6	551.8	668.6	611.5	516.0	481.8	464.8
75°	543.2	431.5	392.3	418.7	439.2	519.4	630.2	580.8	494.6	462.2	446.9
77.5°	383.8	323.2	320.7	352.2	363.3	455.4	568.0	528.7	440.9	406.8	392.3
80°	269.5	242.2	254.1	273.8	289.1	402.5	527.0	457.1	361.6	321.5	316.4
82.5°	175.7	158.6	181.6	199.6	204.7	296.8	425.6	347.1	263.5	214.1	198.7
85°	81.0	79.3	104.0	101.5	100.6	145.0	252.4	203.0	151.8	113.4	106.6
87.5°	20.5	19.6	25.6	21.3	25.6	22.2	23.0	6.0	0.9	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)